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Here are the Bulbs and here are the Prices

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(As pictured above from left to right)

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Caution:—These prices are good on orders received before July 1st—NO LATER.

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for

MAY, 1929

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You who are about to construct an English type garden may receive inspiration from this essentially English planting, a prize winner in the London Daily Telegraph Garden Competition

THE AMERICAN HOME

Our New Home Building Service

TO MEET the growing demand on the part of home owners, builders, and buyers for authentic house design and equipment, last October we sent an architect, Mr. Paul Windom of New York City, abroad to secure this material. He will visit England, France, Spain, Italy and Sweden, photographing the livable cottage type of house in each country. Based on these photographs he will design an American home true to each of these precedents. Mr. Windom will study the furnishings, hardware, roofs, windows and construction details of these well-liked types of houses and will provide pen-and-ink sketches of all this.

Not only will these be shown in THE AMERICAN HOME, but in every case we are matching up each of these details in American materials, these to be published in the magazine so that our readers not only will have all the original authentic details, but also will be told where and how these may be purchased or duplicated here at home.

In this way the man building, owning, or buying a little Cotswold, or French, Mediterranean, or Swedish, type of house will be shown just what this particular style of house should be if it really is to follow time-honored traditions.

To supplement this unusual service, experienced decorators will tell how to furnish each of these houses, what curtains to use, what floor coverings, kinds of chairs and tables, walls and fireplace equipment. All this material will be purchaseable here at home. This new service starts with our June issue.

If any architect failed to see the announcement in our April issue of the unusual architectural competition, write at once for details to The Home Owners Institute, Inc., New York City.



This... New Chintz by Rockwell Kent
"THE BRIDGE OF SAN LUIS REY"
Captures the Spacious Vistas of the Andes

WINDBLOWN trees on rocky ledges—laden burros—sturdy peasants—the serrate line of the Andes—make this one of the most original and decorative cretonnes ever created!

In this, his first chintz design, Rockwell Kent, who illustrated the new *de luxe* edition of "The Bridge of San Luis Rey" (which will be bound in this same chintz), has caught the very feeling of the primitive Peruvian scene. Use it against the rough plaster walls of a Spanish interior and you will find it particularly effective.

It also makes distinctive screens, waste baskets, dress, suit and shoe boxes, and similar fittings—coming in either glazed or plain finish, on grounds of pale terra cotta, mountain green, sunset gold, desert sand, agate grey, or black—all equally striking.

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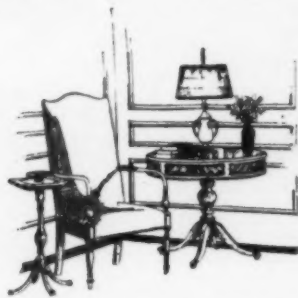


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FOR that bare wall space... this gracious Queen Anne Secretary reproduced from a famous museum antique... that brings the utility of bookcase and desk from the practical value of the old to the decorative utility of today... we use the shelves for art objects, too.

Like many Kittinger reproductions, this lovely secretary is developed thruout in solid American Walnut... the drawer fronts, with their fine brass mounts, are of richly figured burl Walnut... finished in a hand-antiqued waterproof lacquer with a mellowness that reflects the glory of Georgian days. The companion chair is also of Queen Anne style, colorfully upholstered in small-figured tapestry.

The craftsmanship and material standards of the Old Master artisans characterize Kittinger Distinctive Furniture, even thru final details of finish and upholstery... there are over five hundred occasional pieces and suites... in solid Cabinetwoods, principally American Walnut, Honduras Mahogany and Oak, with a few in Early American Maple.



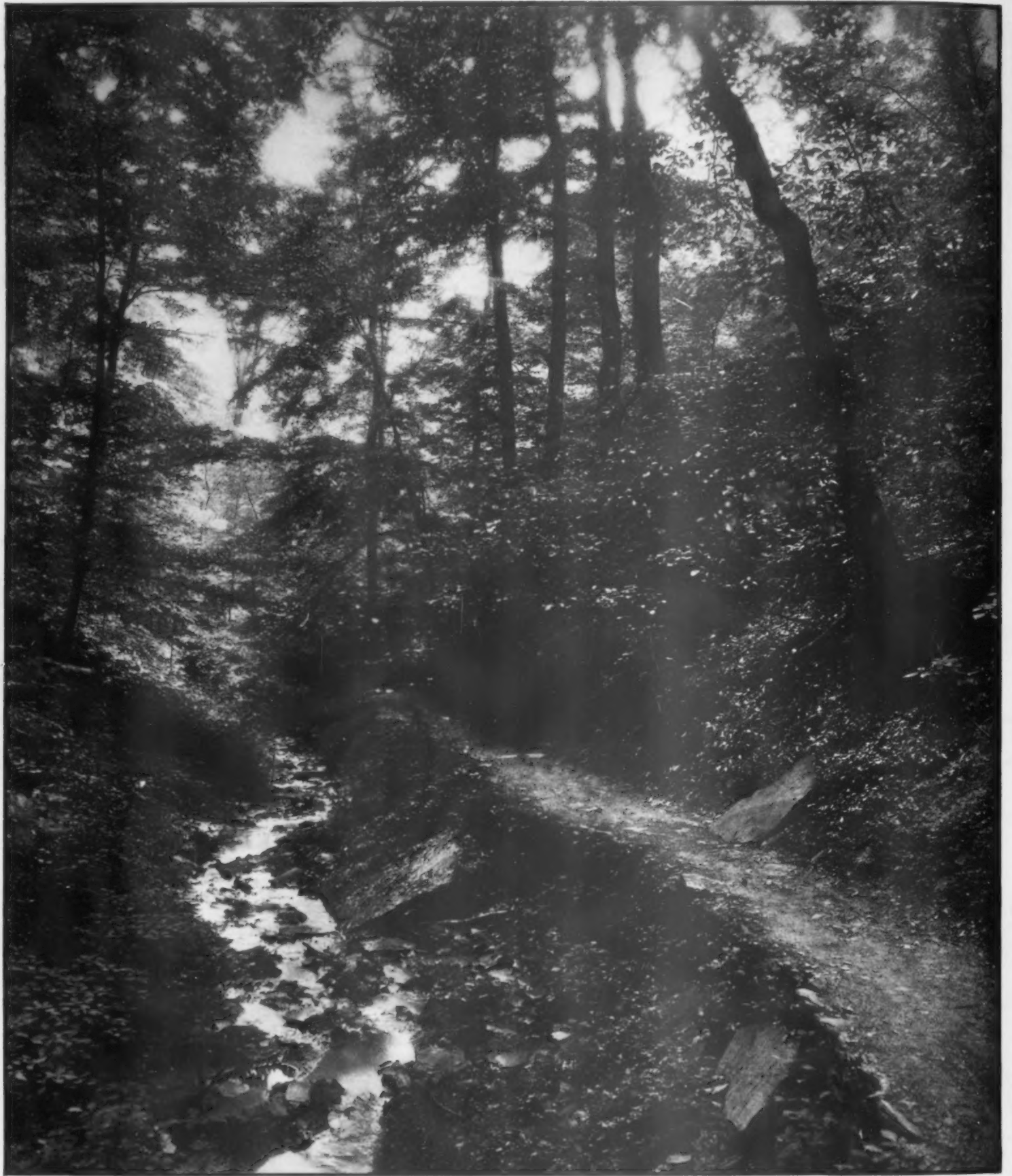
If you are an admirer of Georgian and Early American Furniture, you will be interested in the new Kittinger folder illustrating many such charming reproductions. Let us send you a copy with names of Kittinger dealers in your vicinity. Kittinger Company, Dept. 24, North Elmwood Avenue, Buffalo, N.Y.

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KITTINGER
Distinctive Furniture



Photograph by Mattie Edwards Hewitt

PEACE AND COUNTRY SECLUSION

A charming wooded walk close to a sparkling little stream, at the home of Mrs. Henry Rea, Sewickley, Pa. Here in May grows a wealth of the delicate little spring wild flowers and ferns

THE AMERICAN HOME

M A Y

1929

The garden living room

Try furnishing your garden for peace and rest and pleasant outdoor living

H. ROSSITER SNYDER

THERE are evidences on every hand of a new era in home gardens. Europe discovered the out-of-doors centuries ago. In the last decade we have awakened to it. Arbors, trellises, birdbaths, lily pools, covered garden seats, wicker chairs and hour-glass tables, these things are pointing a moral to us all. And we as a nation are coming more and more to realize the peace and beauty of outdoor living rooms.

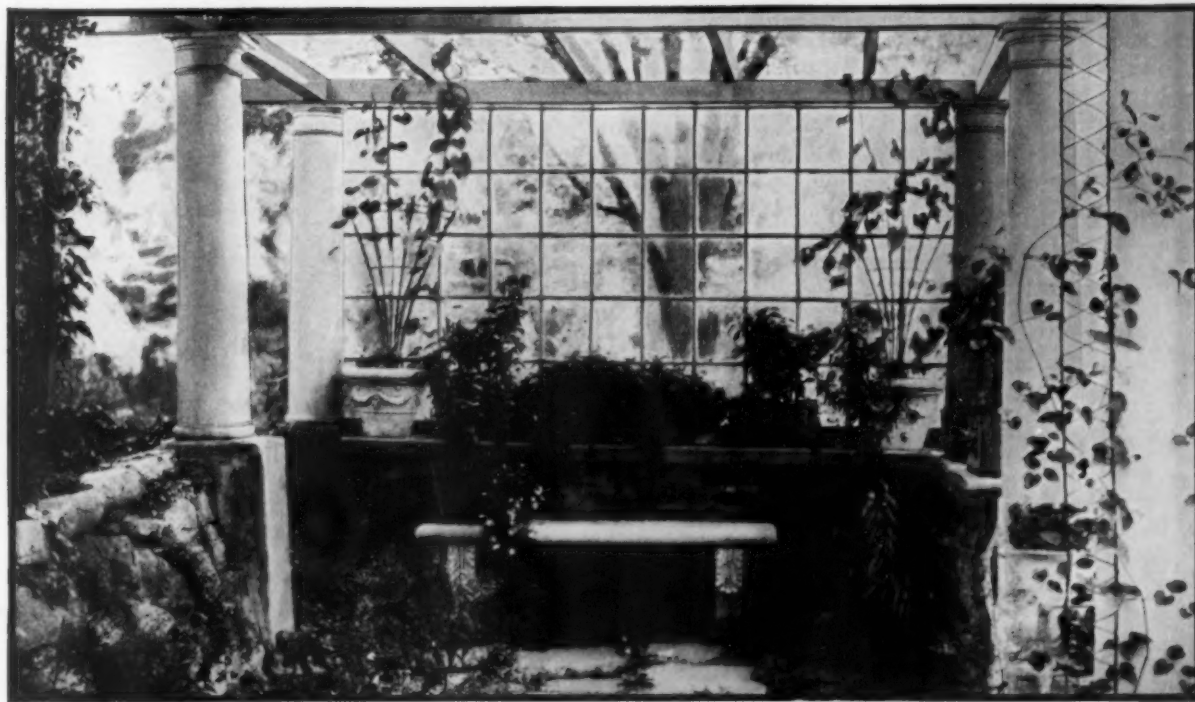
There is no appreciable expense required in furnishing an out-of-doors living room. We may have it in the form of a flagstone terrace at our kitchen door, with an awning stretched over it—if not an awning then a grape arbor. We may have it under an old apple tree, the

branches bent down with weights to give us just the right amount of privacy. Or we may choose the lawn just around an elm tree. Again we may group it around the shelter-seat at the far end of the garden path, it is not so much *where* we have it as *that* we have it.

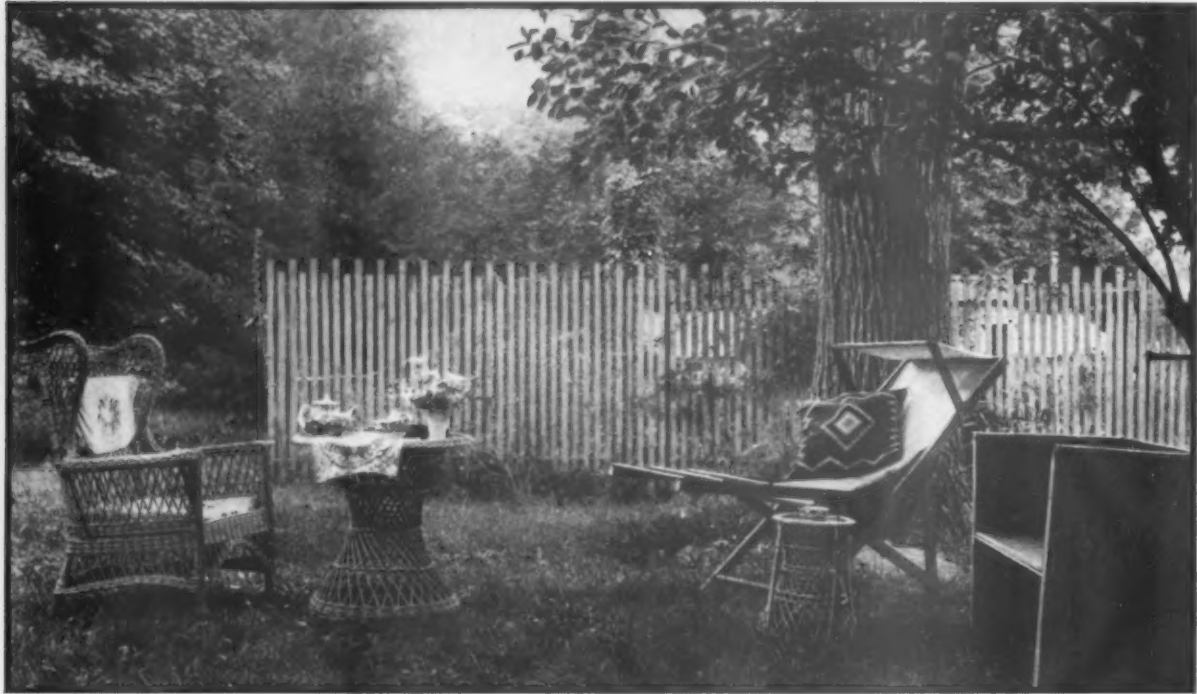
Out-of-doors living room schemes are best grouped around some one substantial object as a focus of interest or a point of balance. Just as we arrange the various units in the living room in some relation to a fireplace or mantel, we need to tie them in design to a certain main object out-of-doors. This effect could not be obtained in an open field. There must be more of an anchorage.

At the beginning one must find shade from the blaze of the sun and the brightness of the sky, must find it or make it. Just as chickens seek the shade of a tree on a warm summer day, so humans gravitate to partially shaded nooks to rest and contemplate. They should find places to sit down at such points of vantage.

Trees, walls, large shrubs, high fences, these all offer shade. Lacking these in the desired locations we may produce our own shade. Awnings of canvas or wood, painted in stripes, huge beach umbrellas planted in the center of an open grass plot, even a little summer house, a grape arbor, a pavilion or pagoda may provide the essential shade. Such pavilions may be constructed of rough cedar posts, or



Enclosed by its rough stone walls, vine covered, and with a glass protection on one side, this delightful arbor makes a charming outdoor room



With the sky for a ceiling and trees and shrubs for walls, this pleasant spot is in every sense an outdoor living room

plain planks or slabs with the bark left on. Roofs may be shingled or thatched with straw. Endless variations are suggested once we think about it.

But assuming that we have some shade, as most gardens do, how extensive need our furniture investment be? Almost nothing at all but thoughtfulness. Even plain kitchen chairs when lacquered by home talent may be made things of beauty for a garden. Nature herself is here so ornate with curves and veils and drooping branches that we would not wish to compete with over-ornate furniture. Again, the tables for the garden may be made at home in the simplest lines imaginable. Any of the weather-resisting woods may be chosen for the work. Rough, unfinished tables may be allowed to weather to the gray-blue tones of a lichen-covered stone wall, bringing added beauty to our garden room.

Tables and chairs are the essentials. Stone or concrete benches may be added if our budget allows, but these approach the class of formal ornamentation, too hard and cold to sit upon. The man of the house would quickly wander back indoors if these are all he found in the out-of-doors living room. But if you lead him to a steamer chair with an hourglass table beside it, a magazine or two upon it,

A rustic seat around a tree provides a cool restful spot for a moment's leisure



Gay umbrella, firmly fitted to the table, brings color, interest, and shade

and another chair nearby where you or a neighbor may sit and chat, that is different! He scarcely wishes to stir himself even when dinner is announced.

Wicker chairs, gayly colored kitchen chairs, steamer chairs, wooden benches and settees of all descriptions, stools, the Down-East hickory chairs, all these are good in a garden. It is often less expensive to buy and assign a few chairs to weathering in the garden than to build them of plank at home. In the first case the results are immediate. In the latter, the work is postponed and we may lose a year or two of garden life.

Tables for a garden are anything that is a table. The heavier the construction, of course, the better. The oftener painted the longer they last. Tables and chairs should be in close proximity, convenient to rest an arm on, to lay a pipe, book, or tea cup on, when we have learned the joy of an occasional small party out-of-doors. And who knows that we shall not

think of having breakfast or dinner there on some inspiring day!

Swings or hammocks under a vine-covered arbor or a gnarled old tree are enticements not to be overlooked. Lacking the tree or arbor in a back city lot, we may be just as content with an awning-covered swing-hammock. A circular seat built around the trunk of a tree, whether or not it is comfortable to sit upon, always is good to look at. It suggests out-of-doors hospitality just as a fireplace in a living room offers the indoor invitation to stay a while.

In the making of garden chairs or benches at home I have found it possible to combine solid comfort with good looks. Before nailing the planks to a garden seat, or securing the back-boards to the frame, it is a very good plan to make "trial sittings" to discover the angles of comfort. If the seat does not have sufficient slope to the rear, it is very easy to wedge up the front edge a little higher. If the back is too straight and thrusts one forward, a draw-knife will cut back the frame to give more slope. It is just as well to make them of such shape and slant that guests to the garden living room shall heave a sigh as they settle into the seat and exclaim, "How comfortable!" Why do they exclaim? Must be that they too have had (continued on page 208)

A lodge in some vast wilderness

The way to build a real log cabin, with intimate glimpses into the famous novelist's own camp

MARY ROBERTS RINEHART

I WONDER why we have so few log houses. By and large, it takes a good many trees to provide the boards for a modern wooden house. But the log house can be built of logs rejected by the saw mills, for the huge timbers of the pioneers are not necessary. It is quick building, once the logs are accumulated. It requires no stairs, no elaborate carpentry. The more it sprawls over the countryside the better for it. It should be long, low. Only one step out of any room and you are on the ground.

Do you remember how the early settlers built? The logs were ready, the site selected. For days the women prepared, baked meats, made pies, killed fowls. Then the neighbors came and there was a raising. The men worked, the women cooked. By evening the thing was done; barn or house, there it was, and there it still is in many cases.

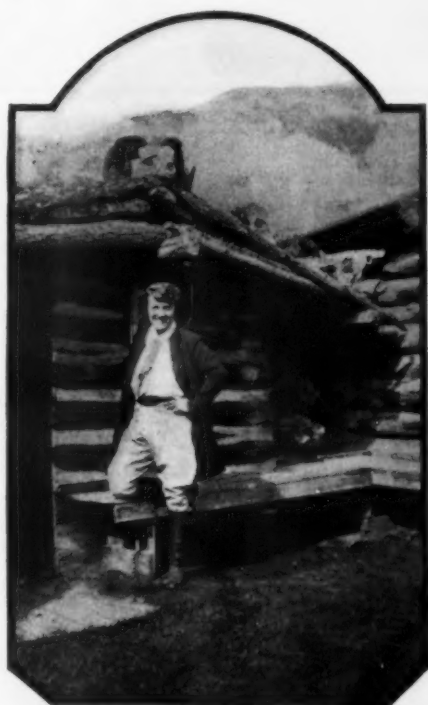
The real log house lover wants his logs to show. Not for him the composition board lining, or plaster, or any such weak compromises. True, he wants his logs stripped of bark, or in time he will have them shedding like dogs in spring. He may shellac them, inside the house, or he may paint them with boiled oil, and

this has certain advantages. Even a faint varnish will reflect the lights of lamps at night and of those open fires which are the glory of all log structures. And he may line his ceiling. This has a number of advantages. If the lining is pale in color it helps to brighten the room; if the roof leaks it at least directs the water to certain spots in the roof which one discovers

in time (although no one need have a leaking roof now, or even a fire from a chance spark, what with asbestos shingles and all sorts of patent roofings). It provides an air chamber, no small matter in hot weather, and it has another quality not often considered.

In our case at least it has provided, above, a refuge for all sorts of small wild creatures. We hear them there at all hours, busy about domestic affairs; the scurrying of chipmunks and field mice, the rattle as a squirrel drops a nut, and the dropping of some miscellaneous article stolen by a trade rat, usually buttons, but sometimes sugar. Even, (for there are modes of access,) now and then the soft slithering of what sounds suspiciously like a snake. Sometimes when we are very quiet we even see them. At the angle between the log walls and the ceiling are divers small openings and a tiny head with two beady eyes will often appear at one of them.

The log house, then, should be frankly of logs, inside and out. All but its doors and window frames. I know one enthusiast who has made his doors of slabs, inside and out, with the result that each one is as heavy as the door of a safe



Mrs. Mary Roberts Rinehart in front of her summer cabin in the Big Horn country in northeastern Wyoming, where the family spends many a vacation time in the fresh air and sunshine

Securely built (see details in text) and attractively planted with shrubbery, with trailing vines in the window boxes, Mrs. Rinehart's cabin is indeed a comfortable retreat for the summer months





deposit vault and as thick as that of a butcher's refrigerator. Enthusiasm may go too far. Make your bookshelves of log slabs, your mantel if you have no stone, but let the local sash and door factory do the rest.

Of course, there must be porches. The log house, indeed, is only the core of the log house. There should be porches everywhere, with swings and chairs and, if possible, porch boxes. The one objection to unpainted wood structures is that they are colorless. Gaily painted porch boxes filled with flowers in strong colors, gay porch furniture, gay rugs, answer this problem in the summer. And in the winter who cares? At least the porches keep the mud out of the house, and inside there are the open fires, the cheerful furnishings, the books and lamps and easy chairs.

My own experience in log houses has been limited to one cabin. But for many years I have been a close observer of them. They range from the lodge in the Adirondacks to the practical log homes on some of the Western ranches, and to the log cabins for guests on dude ranches. There is, then, a certain uniformity in them. The rooms are—rooms; the fireplaces and mantels of field stone if possible. While the early log cabins went very short on windows, to-day windows are provided more abundantly. For log surfaces absorb much light, and their one weakness is a tendency toward darkness.

The fireplaces should be crude, but carefully crude. The chimneys must draw, the width and height of the apertures be large enough to use wood of a good length. Even when one touches such luxury as a steam-heating plant,

Roughly finished, but with plenty of color and pattern, the living room also has ample window space, for log surfaces absorb much light

these fireplaces remain the single most important feature.

One might build his fireplace and chimney first and then the structure around it. Indeed, in my little cabin I imagine that this was done. Fireplace, mantel, and chimney piece, it stretches to the ceiling and beyond, cracked somewhat here and there where it has settled, and with a blackened space above the opening where a wind from the mountains overhead has defied all rules for winds and come from above. But it has a quality of authenticity. A chimney it is and a chimney it is proud to be.

Perhaps the secret of the charm of a log house is that everything is what it purports to be. There are no "fixtures," no built-in artificialities. A hook is a hook, and one hangs his clothes on it. A cupboard is a cupboard. It is as impossible to have a secret in a log house as to hide anything these days from the government.

So now we have our log house. Maybe it had its plans on the back of an old envelope, but it turned into something fine, honest, and substantial. Maybe



Detail of the delightfully crude fireplace, which is really the focal point of the living room—perhaps of the whole house

there has been an architect, but architects are apt to sneer at this humble work. The best plan is to draw the plan oneself on paper, letting it sprawl, keeping it low, and leaving

spaces here and there where some day one may say: "Let's put a room here," and do it. Give it a lot of windows, and plenty of doors to step out of on to the good green earth. Plant trees around it and put vines over it. And then study what to put into it; for of all structures on earth the log house demands the most study in furnishing—appropriateness and harmony are all important.

Expensive things are out of place. Heaviness is to be guarded against. Elaboration is absurd. But it must be furnished, and gaily furnished. Neither walls nor stone chimneys have any particular color. An empty log house is the most colorless thing on earth. It is dead.

The matter is vital to the success of the project. Decorators usually fail, and the living rooms of the large and elaborate camps are often more like club rooms than anything else.



Specially designed for The American Home by H. Lawrence Coggins

STYLES IN WINDOW DESIGN

In the upper left is pictured the simple Colonial double hung window, each sash divided into six sections. In the upper right, the English casements are shown with small panes of glass divided by lead comes or wooden muntins. The center shows a Palladian window, such as would be appropriate over the entrance of a large Colonial house, or in an imposing gable

of a Georgian house. The lower left shows a French casement with its blue-green batten shutters with hand hammered nails and interesting blinds. The Spanish window is shown in the lower right and is accompanied by a wrought iron balcony, which makes it a very decorative feature and also casts an interesting shadow on the light colored stucco wall



A low fence should encircle the children's domain so that it may neither encroach upon nor be encroached upon by, the yard proper. (Courtesy Long & Bell)

Try the outdoor nursery this summer

A play place in the out-of-doors brings health to your children and peace to your house

THE nursery is a matter which has been much discussed, especially since the idea has become general that the children's room should be adapted to children's tastes and wishes and not be limited to the dainty, perishable, and (to the children) insipid tints which from time immemorial have been consecrated to their use. But there is another part of the home equally important to the children's welfare (in the summer even more important than the nursery) to which due attention has yet to be given. This is what we may call the outdoor nursery, where they may play and breathe fresh air to their hearts' content, the corner of the yard which may be fitted up for little peoples' use, where as in the nursery within they may have their belongings and work their will without fear of interference from their elders. The smallest of spaces will serve this purpose and it will prove a boon to both children and parents equally. Also it need not be out of keeping with the grounds about the house.

In such a "children's corner" what accessories will be needed? Mere space alone will not, of course, suffice unless some effort be made to adapt it to games and sports, save for the very little child

AMELIA LEAVITT HILL

who is able, usually, to find sufficient occupation in the careful study of a mere stretch of ground. To adapt it to



A variety of tiny chairs, tables and other furniture, plus a good selection of toys, is essential for the child's own house. (Courtesy of Lewis & Conger)

the older children, however, no great trouble or expense is required, for many are the playthings which may be had to-day which are particularly intended for use in the open.

First of all, a low fence should encircle the children's domain, so that it may neither encroach upon nor be encroached upon, by the yard proper. Such a fence should be low and above all strong since climbing upon it will probably afford the children one of their chief joys. For this same reason the pickets should not be pointed, and the gate should be heavily hinged so that it may be swung upon without mischance. Care in dealing with things of this nature is foreign to the mind of the average child, not through desire to destroy but merely because of a lack of appreciation of the need of care; and the playtime of the little ones should not be broken in upon by constant warnings to beware lest this or that be harmed, as must perforce be the case in dealing with the rooms within the house. It would be better to dispense with the playground altogether than to make a place so artistic that constant watchfulness must be the price paid for it by its little owners.

Within the fenced domain many amusements may be (continued on page 206)

What makes the livable room?

*Try variety in furnishings;
forget the too strict
"period" boundaries*

JANE TEN BROECK

SOMANY of us, when we are faced with the problem of furnishing a new home, find that our furniture consists of a motley collection of chairs and tables and beds and cabinets which have gradually accumulated around us with the years. In the old house they seemed to "fit." There were comfortable corners long appreciated because of a deep chair, the good lamp and a footstool which stood there. There were spots here and there in the old house where comfort and convenience emanated because the furniture had been long accustomed to them in certain groupings and arrangements. Now, confronted with the bare walls, and staring windows of a new house or apartment (or even when re-decorating the old house) these old pieces suddenly loom up for what they are—an assortment of chairs in several styles and colorings, an assemblage of other pieces distantly related to each other only through a general shabbiness.

But in place of despairing, it pays in more than one way to equip ourselves with a broader understanding of the



Where the old and the new in furniture and furnishings have been combined with a charming result. No one period style is dominant

The dining room of the same house, where variety and interest in mingled styles is again shown. (Photographs by Mattie Edwards Hewitt)



virtues of these pieces. The upholstered chairs or couch may be slipcovered or reupholstered in any of several ways; the scarred and marred and broken furniture may be repaired, refinished, painted another color or stained another tone, even cut down or reshaped if necessary. Old fabrics may be redyed or combined with new textiles. Old rugs may be cleaned and brightened, redyed or made over into a new rug by the professionals who specialize in such work. Then in place of spending the savings and going in debt for enough furniture to completely furnish the new home, we may start out in quest of a few pieces which will tone up these rooms and at the same time will not be so snobbish as to make the old pieces look out of place and unwelcome. This very variety of the new mingled with the old usually produces that desired achievement of all home makers, the livable room. But we must manage our purse adroitly, plan carefully, use discretion and a dash of daring and have a good reserve fund of the knowledge of color and general suitability.

These pictures show such a house which has been furnished with the old and the new to good effect. In the living room we find a one-tone chenille carpet covering the center of the floor area while a few modern hooked rugs are used here and there on top of this carpet. One rug lies in front of the simple mantelpiece. Over the mantel shelf hangs a round mirror and a simple vase filled with pussy willows flanks the mirror at either side to make an *(continued on page 204)*



Simplicity and good taste are the characteristics of this dining room where the draperies supply the color and pattern, the floor and walls being plain

Making the most of your dining room

Let in light, flowers, and the little personal touch that makes a room your own

MARJORIE REID RODES

THE first impression of many modern dining rooms is like a tasty *hors d'oeuvre* before the meal. One is conscious of this without being quite able to discover why and it is interesting, once in a while, to analyze those beautiful rooms. They may be exquisitely rich in wood carving, fine fabrics, priceless works of art; or they may represent next to nothing in the scale of dollars and cents. But we discover a number of elements which they have in common.

One is sunlight, probably the flooding warmth of the morning sun, for there is nothing we like better than to look out from the breakfast table on to a bright and cheerful world. If your plans are still in the making it might be worth while to consider the matter of eastern exposures. And by all means have plenty of large windows in the dining room, possibly French windows that open to the garden, or if the garden is still a dream, at least there can be

window boxes or flower arrangements of some kind. A dining room needs a touch of garden atmosphere even if it is only a painted panel, or one of those charming wallpapers in bird and flower designs.

If the matter of windows and exposures happens to have been settled in your house a hundred years (more or less) ago, there are other ways to bring charm to the dining room. If you cannot have sun with your breakfast, at least you can dine in the warm glow of artificial light which has been brought to the room through modern material. Dining room lights should be restful and flattering, and they easily may be for the use of light has become one of our fine arts.

Innumerable touches of color, of intimate appeal, of historic suggestion may be brought into the dining room and they give it a personality. The old pewter and china in the Colonial corner cabinet, the family portraits presiding over the

side table, seem to link the present with a delightful and tranquil past. There may be a fine old clock ticking on the wall or a bowl of ripe fruit on the side table to bring color and life.

To return to the subject of light, the candlesticks and wall fixtures offer a chance to bring in original designs which harmonize with the room. Always, in the dining rooms which one wishes to consider and analyze, there are things which are not just "furniture" and which are not absolutely necessary, having nothing whatever to do with the prosaic process of eating three meals a day.

The keynote of these rooms, perhaps, is simplicity. There is never too much of anything in them. We have discovered the importance of that quality to-day and we wonder at the rooms in which the past generation dined and feasted, the clumsy, ornate woodwork and restless papers, the lumbering chimney pieces and tiny fireplaces, the over-elaborate effects in (continued on page 240)

Furnishing a one-room apartment

Built-in furniture and clever tricks in furnishing can make of one room a charming home

MARJORIE LAWRENCE

AT SOME distant date, when the roll call of twentieth century inventions is made, the one-room apartment will come in for its share of praise. Of course people have lived in a single room since time immemorial, but the one-room apartment of to-day is something altogether different. Formerly a single room indicated poverty, or, at best, financial embarrassment. It marked the period when struggling genius labored far into the night by the light of a flickering candle. To-day, successful genius with laurels on its brow is very apt to select a one-room home for its abode.

This change in the status of the single room is due to two things in particular. First, it may be attributed to the fact that apartment house builders have put

a much wider interpretation on the one-room apartment than ever before. It now inevitably includes a bathroom, and is likely to include a kitchenette. Its closet space is luxurious, and its proportions are usually quite adequate. The second reason for the popularity of "condensed living" is the number of pieces of furniture which are being manufactured to serve a double purpose in a charming and unobtrusive manner. Of course, there are innumerable other reasons, such as the rush and scramble of life in a big city which leaves little time or inclination for the care of "wastespace" (continued on page 224)



This built-in bed lurks unexpectedly in the closet until "time to retire." It does not mar the living room in any way. Home of Mrs. Kathleen B. Rice

The living room section of a one-room apartment, in which color plays an important part. (Photographs by Richard Averill Smith)



How to make the new window blinds

More hints for the home carpenter on making attractive trim for his house

PAUL GLENN HOLT

THE home handy man usually hesitates to apply his carpentry skill to the actual exterior of his house. And in this as a rule he is wise, for house trim must be right or it is very wrong indeed. Yet there is one item now coming into vogue to which he may turn his hands without fear. That is the solid board window blind.

A batten blind is like a box lid. In its simplest form it consists of one, two, or three narrow boards fastened together with cleats. Its length is determined by the height of the window it is to adorn, and its width is equal to one half the width of the sash. It is hinged to the window casing so that it may swing back and be hooked firmly against the siding of the house.

A very interesting result is obtained by removing old slat shutters and knocking out the upper section of slats to replace them with a solid board panel (see right). This panel is cut to fit within the upper section of the old frame and is held in place with small moldings. The lower slats are left intact. Within the new solid board panel any design may be cut by first drawing a paper pattern, then marking the outline on the wood and cutting it out with a coping or compass saw. Shutters made half-and-half in this way combine all the advantages of the old slat style with the distinctive good looks of the solid batten blind.

Finishing nails and brads should always be set below the surface of the wood and the holes puttied between paint coats. Screws may be galvanized iron or, preferably, brass. Any metal work around window blinds is sure to receive the maximum corrosive effects of the weather. For this reason a very good

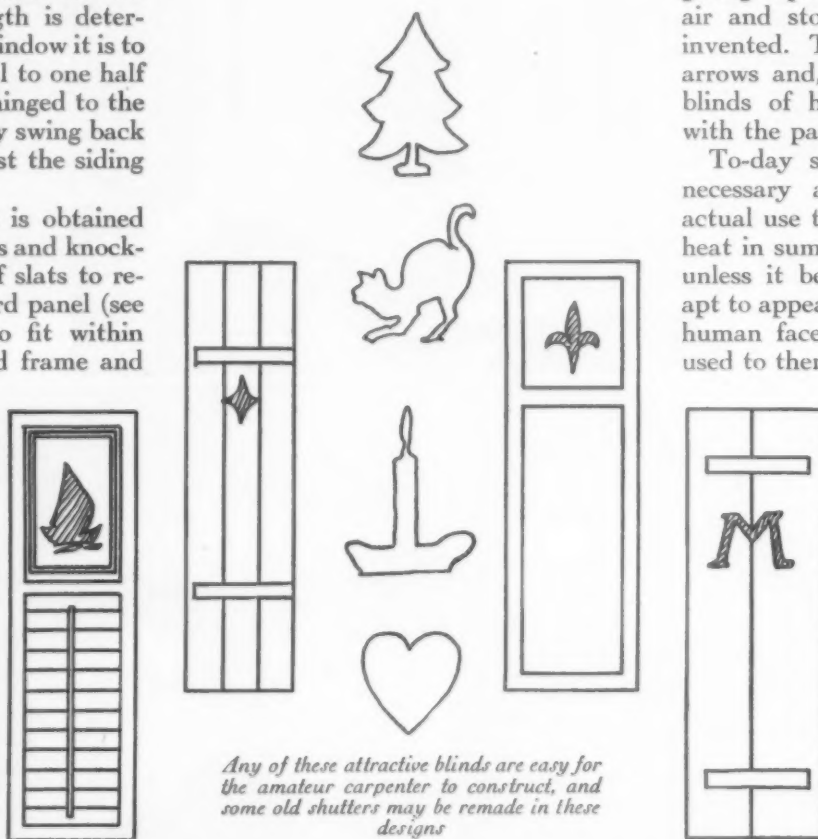
plan is to paint all the inner joints of the lumber as it is being assembled. This assists the later paint coats in defense against the entrance of moisture and ultimate decay of the wood.

There is something about solid blinds which gives a satisfying air of solidity to a house. They are of ancient origin, used long before slats or Venetian blinds were dreamed of. In the earliest times they were needed for defense, to close light giving openings which also admitted air and storms, long before glass was invented. They stopped the flight of arrows and, when guns came into use, blinds of heavy oak rather interfered with the passage of musket balls.

To-day shutters or blinds are more necessary as ornamentation than for actual use to keep out cold in winter or heat in summer. A house without them, unless it be of a very foreign type, is apt to appear as lacking in character as a human face without eyebrows. We are used to them. They lend variety of color and texture, breaking up great blank spaces in the walls of our houses.

The single or double panel blind has been much in vogue in the last year. Now there is a strong tendency toward the batten type, built up of two, three, or four strips. Due to the honesty, the virility associated with batten doors and blinds they have become very popular.

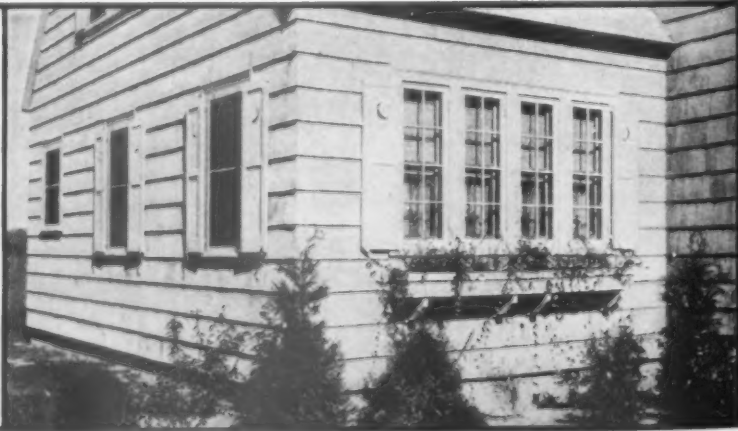
It is easier to cut the insert (continued on page 220)



Any of these attractive blinds are easy for the amateur carpenter to construct, and some old shutters may be remade in these designs



The modern, solid panel blinds which have been installed on this plain old brick house at Lyme, Conn., are really the most important feature of the exterior design.



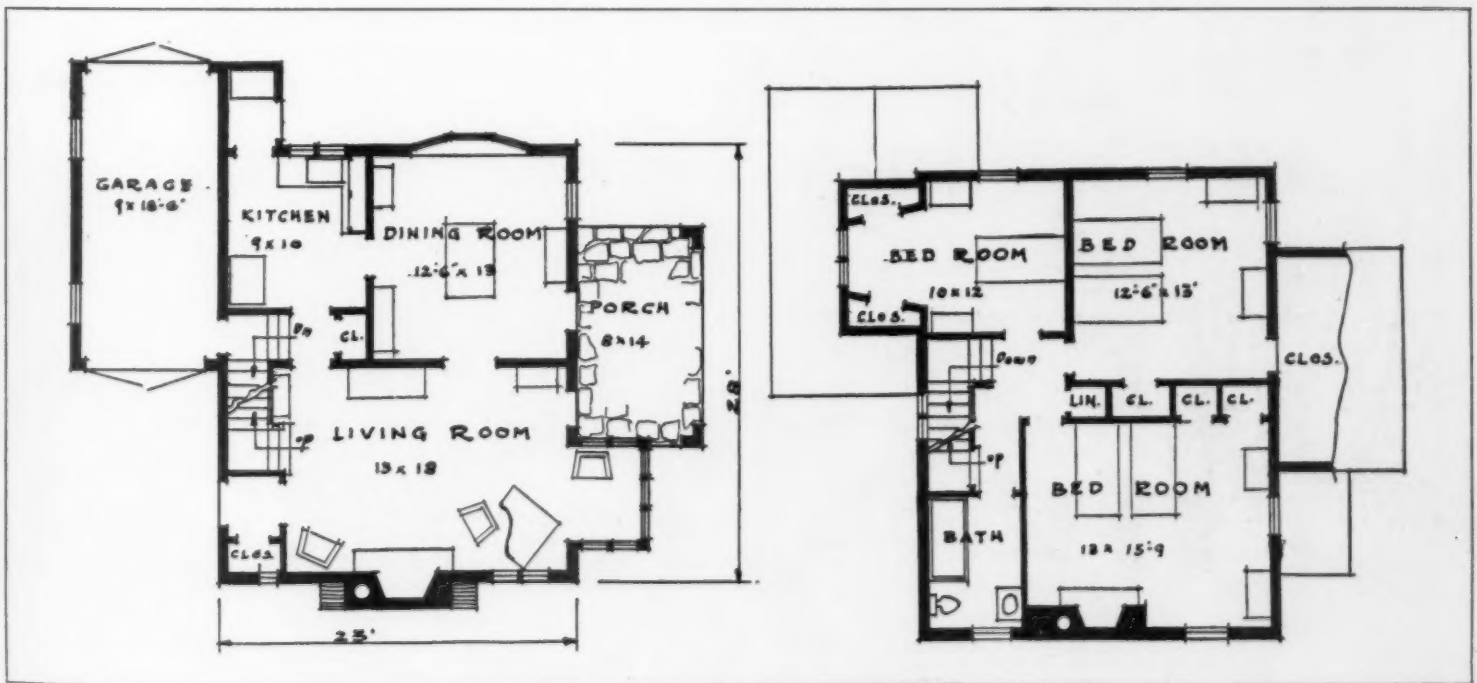
Modern panel blinds with moon design used at Clinton, Conn. These blinds are painted light blue against a gray weathered shingle siding.

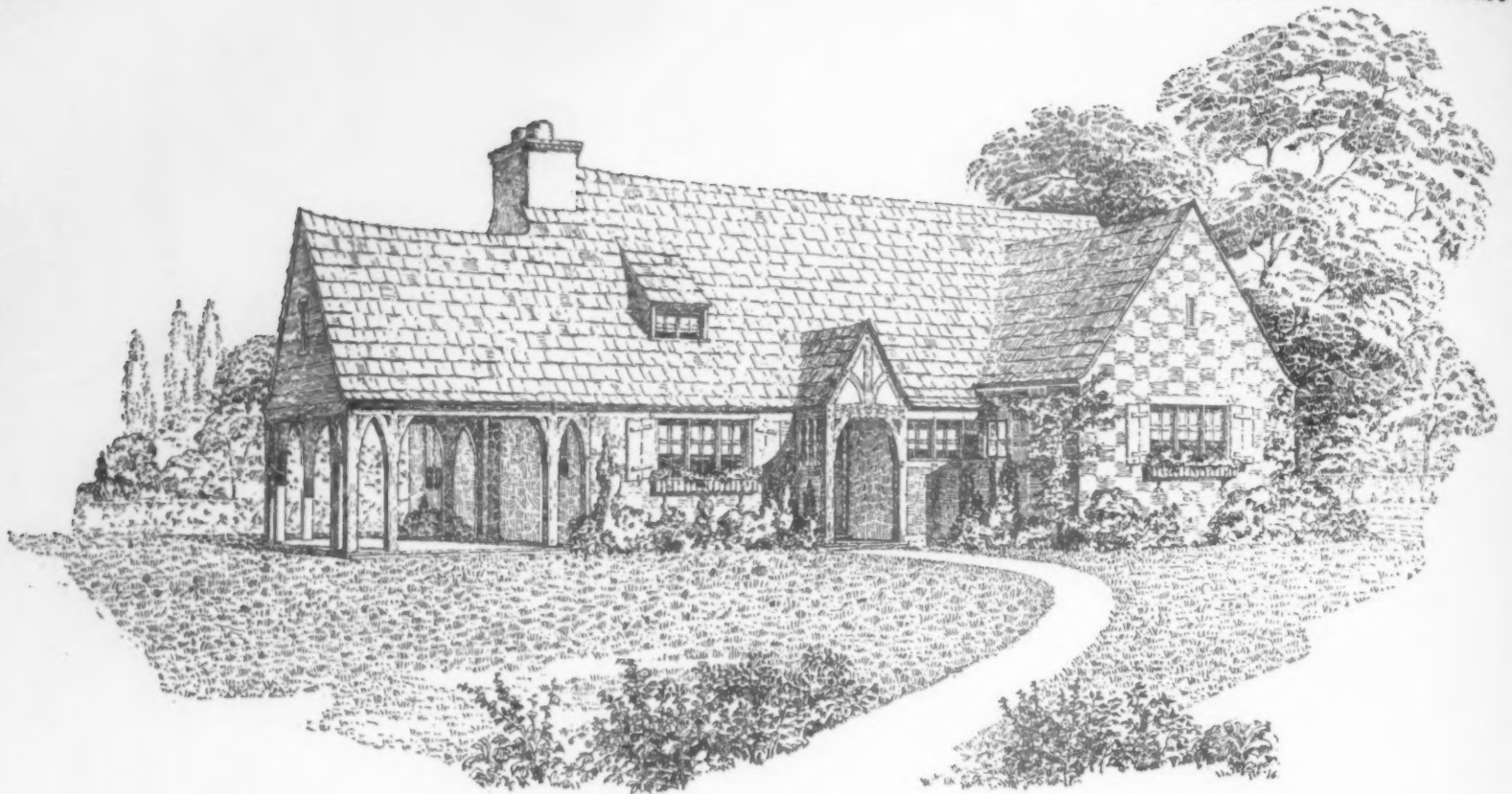


Of cement stucco on galvanized iron lath, relieved with the minimum introduction of brick veneer to give it color and variety, this \$10,000 house is most attractive. The plan is arranged with a general feeling of informality and livability in mind, and includes an attached garage, one bath, and six rooms. The house would fit comfortably on a 50 foot lot

A SIX ROOM HOUSE THAT COSTS \$10,000

ARCHITECTS' SMALL HOUSE SERVICE BUREAU





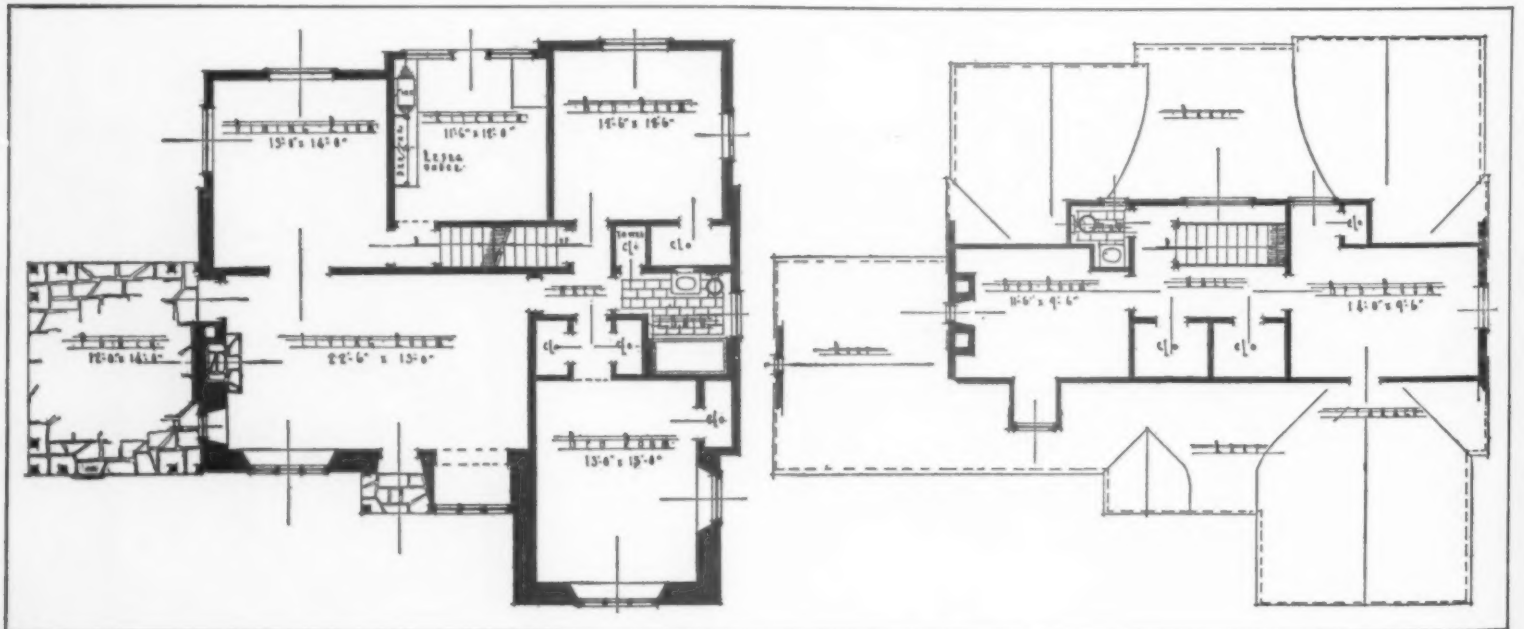
The exterior finish from the porch up to and including the bedroom on the front elevation may be of local stone and broken bluestone flagging in irregular sections. The balance of the house may be of stucco with the exception of the gable over the porch which is to be siding, rough edge, 10 inches to the weather

SEVEN ROOMS FOR \$13,000

OTTO PREIS, *Architect*

The modest price of \$13,000 also includes steam heat and tiled baths. The interior finish is of good quality but not elaborate

Study of the second floor plan shows that although only a lavatory is shown, by adding another dormer a bathroom can be added beneath the gable



AN ENGLISH HALF-TIMBER HOUSE

W. STANWOOD PHILLIPS

Architect

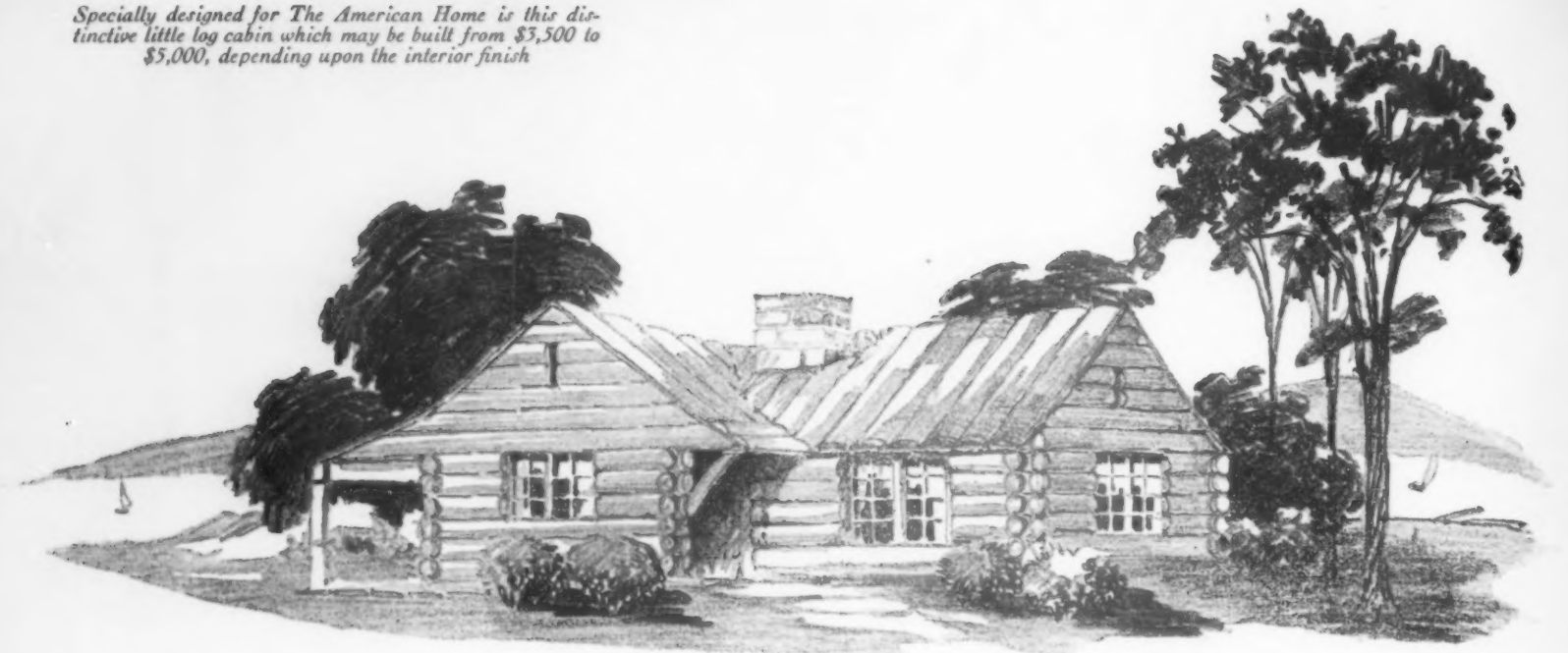


Excellent use is made of the floor space in the English type house above—a delightful little dwelling designed to cost about \$17,000. The half timber work is most

interesting. The stucco is a warm gray, and the strips are of weathered oak. The typically English roof is of rugged slate and fits well into the general scheme



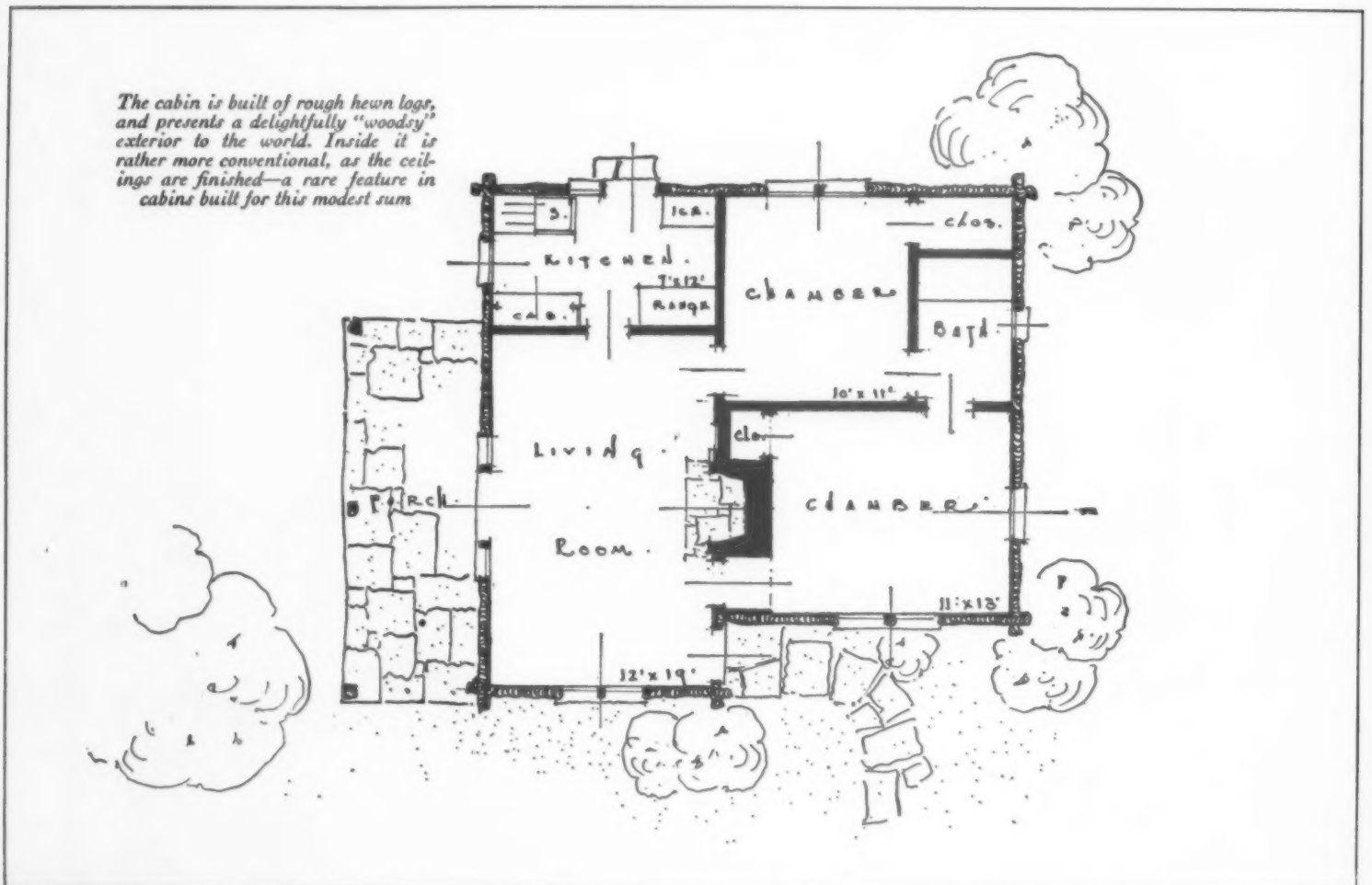
Specially designed for *The American Home* is this distinctive little log cabin which may be built from \$3,500 to \$5,000, depending upon the interior finish



AN UNUSUAL LOG CABIN

M. WARREN SCHULTZ & L. ROBERT WARRINER, *Architects*

The cabin is built of rough hewn logs, and presents a delightfully "woody" exterior to the world. Inside it is rather more conventional, as the ceilings are finished—a rare feature in cabins built for this modest sum



How we built our log cabin

The complete construction, step by step, of a summer cabin in the West

W. BEN HUNT

ABOUT five years ago, when we had the opportunity to add half an acre of picturesque hawthorn-covered ground to our homestead, we decided at once to satisfy our longings for a log cabin by building one the following spring. This, we felt, would be our very own and we could use it the year around.

The most difficult part of the building of a log cabin in urban, or even suburban surroundings, is to get the logs. The one we built was constructed of 8 and 10 inch tamarack logs with the bark left on. Tamarack is a wonderful wood to work when it is green; but, unfortunately, it does not grow in all localities. However, any straight logs measuring from 6 to 12 inches in diameter may be used. My father-in-law, who by the way showed us how to build our cabin, used good American walnut logs when he was a young man. Nowadays, walnut logs are so rare that a log cabin built of them would be worth a fortune. But if logs cannot be obtained in the neighborhood where the cabin is to be erected, there is always a place where one can buy tele-

phone poles. To my way of thinking, nothing can compare with them for making a real log house.

Having decided to build a log house, select for its location a place which has a slight slope to allow for drainage of surface water. This is essential when no basement is dug.

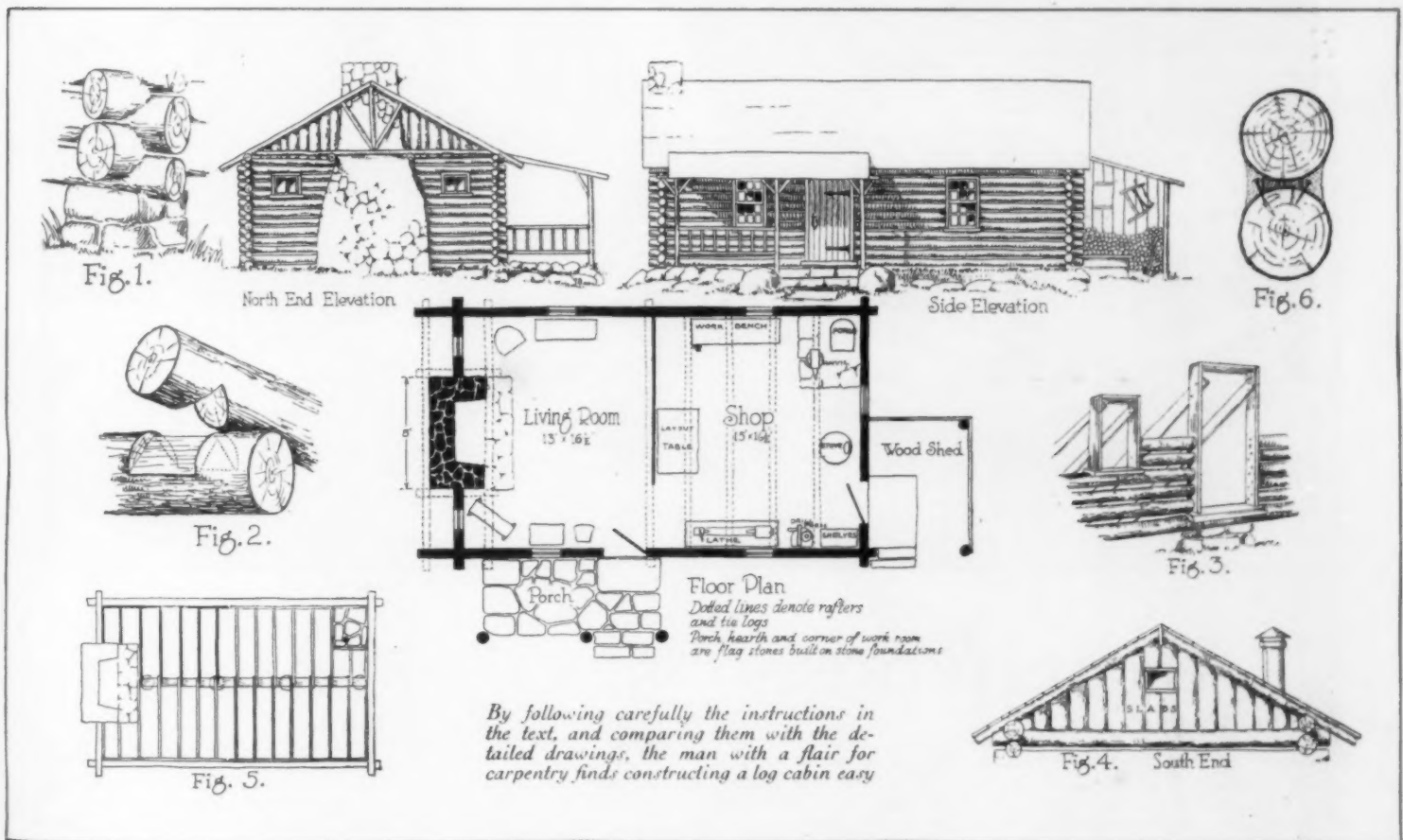
The first thing to do is to set the piers. These must be set at the corners, and at about 6 feet centers all around. Our piers are constructed of field stone laid in cement. They measure about 1½ feet square. Upon them the sill logs are supported (Fig. 1). After the piers had been placed, we took a few days of well-earned rest while some masons put up the fireplace and chimney. Putting up the piers taught us the advisability of calling the masons for the chimney and the fireplace, because we had discovered that the splitting and setting of field stones is a trade in itself. The masons did not disappoint us, for their finished product was what we wanted and as rough as we wanted it. The chimney was

thus built, as you will note, before the cabin.

We then hewed the sill logs flat, wherever they were to rest on the piers. They were likewise flattened where the door openings were to come. The style of notching which we adopted was used by the pioneers who first erected their log huts in this portion of Wisconsin. The reason for choosing this particular type of notching was to prevent any moisture finding its way in between the logs, thus locating pockets in which it could start its nefarious work of rotting the logs.

The illustration (Fig. 2) shows how this notching is done. Another advantage in favor of this particular notch is that it is quite a bit easier to make than is the round notch commonly used. This work was accomplished with a small hand axe and an adz. As a matter of fact, the two tools just mentioned, and a one-man crosscut saw, were the only tools which we used on the entire job.

The logs near the chimney were just roughly butted up against it. A board was then nailed against them until the time came for (continued on page 230)





Photograph by Sara Parsons

A COLLECTION OF DESK FURNISHINGS

Every writing table to-day must have some of these attractive fittings. Upper row: adjustable desk lamp of pewter, \$11.68; globe mounted on tripod, \$10.89; modern waste basket, papier mâché, \$9.94. Middle row: book-ends of Italian tooled leather, \$7.50; pewter pipe holder, \$10; wooden clock, \$6.64; pewter elephant penholder, \$5.50; set of address and memo books, \$8.50; fountain pen in stand, with ashtray, \$16.50. Bottom row: colored

portable typewriter in green, red or blue, \$60; scissors and paper cutter in leather case, \$6.75; magnifying glass, \$9.50; blotter pad portfolio, \$9; tooled leather engagement book, \$5; Funk & Wagnalls dictionary, jade inset in leather cover, \$10. (Photographs by courtesy of Loelitia Tomasini, Rena Rosenthal, Mark Cross, L. C. Smith, R. H. Macy & Co.)

The evolution of a Tennessee farmhouse

A stately home in the South that grew from an abandoned old stone house

REBA L. OFFINGER

JUST a year ago we purchased an old farm of forty acres, two miles from Johnson City, Tennessee. The land, neglected for twenty years, was covered with weeds, briars and poison ivy; and the house, a hundred and fifty years or more old, was a ruin! As we fought our way to it through the briars we found that it had been so well built of native limestone rock with walls two feet thick, that the neglect and storms of twenty years had not harmed it. The house still held straight and true.

Located on a hill with encircling mountains about it, the setting was so unusually beautiful that we decided to buy it and restore it to its oldtime gracious dignity. Windows were out, the roof leaking, plaster falling, but the doors swung free and true, no cracks appeared in the walls, the wainscoting had neither warped nor split—the integrity of the old house had withstood the attacks of time—and so we went to work.

First we replaced all the windows and

put on a new roof with a wider eave. At one side of the house a wooden kitchen had been added at some time in its history—a sheer affront to its dignity. This we removed, and a new addition of native rock to serve as a kitchen and breakfast room was built. The house began to grow in stately beauty. It was as if an unfortunate old aristocrat had been snatched from his impoverished condition and given his one-time position and setting.

Across the front of the house we built a

Colonial porch, a porch that varies the roof line and with slender white pillars two stories high. We were then ready to begin on the interior which consisted of two rooms and a hall downstairs and two sleeping rooms upstairs. With the new kitchen, which was to be filled with all modern home making devices, made cheerful, colorful, and convenient, we decided that we could turn these two other downstairs rooms and hall into one big comfortable living room. To do this all the partitions had to be removed. With floors above supported by heavy hand hewn timbers this could be safely done, and when we finished in lieu of the one time cut-up spaces we had a combination living and dining room 21 x 31 feet. Outside on the mountain side of the house we made an open terrace.

With such sturdy construction to work with, we had no worry as to the wisdom of tearing out inner walls; and so with the first floor finished we attacked the



The farmhouse, two miles from Johnson City, Tennessee, as it appeared a year ago. Compare it with the finished house below

Olde Rocke House, the dwelling of Mr. and Mrs. E. C. Offinger, which has been achieved at a total cost of \$12,000



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A corner of the combination living and dining room. 21 x 31 feet

second. More walls out and a reapportionment of space gave us one large bedroom, 12 x 21 feet, a hall bedroom not so large, and a fully equipped modern bathroom. In the large bedroom we had treasures: a quaint old fireplace and mantel. The beams overhead were all hand hewn and about the walls was a chair rail, everything lending an air of quaintness to this delightful room with its windows looking out over the mountains and winding valley. With the lower rooms floored in walnut and the upper ones in gum, the old house truly was "putting on airs!"

In the original rooms downstairs the fireplaces, stone mantels, wainscoting and doors had been so well placed that we carefully restored them all and put them back in their original positions. The woodwork of old pine was not in condition to use without paint, so it was refinished in an old ivory tint that harmonized well with the walls newly plastered in a rough stucco. To get the tone we wished in these walls, they were first washed in with a dark tan and high-lighted with buff.

In the old house in one corner of the living room there had been a winding old closed stairway. This we opened up and furnished with a banister and spindles of ivory and walnut.

By this time we were ready to attack the land around the house and to provide a proper setting for this home of

In the good sized bedroom the original hand-hewn beams, mantel, fireplace, and chair rail have been retained



Entirely modern, with every convenience, is the kitchen breakfast room



gracious dignity. The land was cleared of debris, ploughed and planted to grass and clover. Two acres around the house were sown in lawn grass with excellent results and flower beds laid out. We avoided any formal planting but put in a profusion of colorful garden flowers.

Unfortunately, there was no way to reach our new home except through an abandoned back road and so, not content with house building, we took up road building, and constructed a road one half-mile long, which opened on the main highway. To do this we had to buy twenty additional acres in order to get a right of way.

Our next step was to put in a connecting line with the electric line a mile away and have city water brought to us. This was done, the water being pumped half a mile to our door.

The roadway that we built was graded and rocked and continues from the main road straight up the hill to the house and around it. We bordered it with roses and violets so that it is fast becoming one of our beauty spots. And last autumn we began an old-fashioned garden at the kitchen end of the house. Peonies, Delphiniums, Phlox, Hollyhocks, and Shasta Daisies are our beloved perennials, with annuals planted each summer for bouquets. Within the naturally beautiful setting it is indeed a lovely spot. And the cost? \$4,700 for the old house and land, with \$7,500 additional for improvements—a total of \$12,200 for a stately old home.

Festive awnings for any color fancy

*Tested materials to withstand weather and sun—
original patterns and how to use them*

GWENDOLYN MACLEOD

THE awning fabric manufacturers have, to a large degree, solved all our awning problems for us. A very few years ago awnings answered a merely utilitarian purpose. There was practically no variety of design, and one had very little choice beyond the uniform striped materials; an awning was an awning, protection from the sun, nothing more. To-day we have a wide variety of designs, with an almost limitless range of colors from which to choose. And the possibilities do not end there, for one may keep the general garden scheme in mind and obtain some delightfully original results by having at least a speaking acquaintanceship between the two. These awnings and lawn decorations that used to get little more than casual thought should as definitely express the individuality of the specific home as the lamps, the draperies or the furniture.

So much time and money must be given to the construction of a house that the fine points of exterior finishing touches are too often sorely neglected. By giving even a modicum of thought to our awning and lawn decorations, one can often achieve a charming effect with a house that otherwise might leave something to be desired.

In choosing our awnings the question of price is a factor. We can have a choice of woven or printed materials. Naturally the woven materials are the more expensive and in most cases will outwear the printed. However, the newest printed fabrics have decidedly durable qualities, and one can find a delightful array of patterns with an unlimited number of all sorts of figured designs. In woven materials, until recently, there was little choice of anything except stripes, but now one will find fascinating figured designs in double faced fabrics, identical on both sides. This year styles range all the way from the conventional Navajo to the *art moderne*. Too, there are effective block patterns which run along the outer edge of each side, (continued on page 214)



A one-tone awning, in harmony with the body color and trim of the house, is often the finishing touch in decoration as well as comfort. (Courtesy of Otis Company)

A small awning, in several tones, for a corner of the porch, provides a cool nook in summer. Home of Mr. Douglas Parmentier, Greenwich, Conn. (Howard & Frenaye, Architects)



New colors and fabrics in window shades

*A variety of window materials that put your rooms
in their very best light*

ANNE BOGART

IN BUYING window shades for the home, just to purchase a full quota of uniform specifications, to fit the sizes and shapes of the windows, is not enough. The purpose of each room, the way it is equipped, the color scheme—all these must be taken into consideration before the window shades are ordered. In some rooms, such as the solarium, you may not want the ordinary roller shade at all, but may find it effective to substitute one of bamboo or wooden slats, or to use the Venetian blinds that are desirable in certain climates and fit so well into certain types of decoration. There must be exterior uniformity of a sort, of course, so the house will present an harmonious picture to the world.

There are, fortunately, various ways and means of meeting this difficulty. It may be entirely solved by careful study of possible window shade colors

and textures to find a single type that will be a happy compromise and place all parts of the house in their best possible light.

For most of the house plain shades

are given the preference. For sun porches, bathrooms, dressing rooms and the living or bedrooms in more or less informal residences, decorative shades are the alluring alternative. Even in the more formal city homes and large country houses, window shades of decorative fabrics are often suitable.

One kind of decorative shade that suits a formal house is that of book-muslin, hand printed from antique blocks, an importation from Italy. This muslin is treated in such a fashion as to make it translucent, then illuminated with panel designs, richly colored floral or scenic patterns against white, cream or delicately tinted backgrounds. Such shades are so richly decorative in themselves that the other furnishings of the room must be fairly simple. When such shades are chosen for a room, they will be used drawn down for the most part, so they should not be *(continued on page 21)*



*The lovely Iris spray on this shade of hand-blocked Italian book-muslin is a charming substitute for a view.
(Courtesy Lord & Taylor)*

Colorful, patterned shades take the place of curtains in this pleasant dining room at the home of Col. Franklin d'Olier, Wynnewood, Pa.





Melon or grapefruit may be served in these deep cups, as may be also cereal or soup. Colored handles on knives and forks bring color to the table



With the waffle iron and batter on the right and the sausages in front, a very satisfactory breakfast for family or guests may be served

Serving breakfast without a maid

Silver, dishes and cheerful decorations to give the day a good beginning

DELLA THOMPSON LUTES
Director Modern Priscilla Proving Plant

SERVING a meal, whether for family or company, may be done with no confusion and also correctly if a few rules are followed, and the meal is kept to informal lines.

Breakfast is so important a meal that it should be given due attention and consideration. The man who goes out from his home well fed on appetizing and nourishing food, well pleased with the appointments of his table, is much more likely to have a successful day than he who makes his own hasty cup of coffee, or grabs a bite somewhere on his way down town.

Homemaking women ought not to look upon getting breakfast as an obligation hard to fulfill, or to consider themselves abused if this duty is expected of them.

A duty, surely, it may be considered

even in this day of rapidly disappearing obligations, but might it not also be looked upon as a pleasure? Morning is a pleasant time of day, once you get acquainted with it, and the accoutrements of a breakfast table are delightful things to manipulate. Sending a man off to his day's work in a satisfied and contented frame of mind, or a youngster off to school with a warmed and sheltered feeling for his home is no mean accomplishment for the best of women.

It takes brains, too, to feed a family intelligently, and still to present food in a pleasing form. The woman with creative energy to be burned can find room and opportunity for any amount of it in this one phase of homemaking alone.

The breakfast menu suggested by the illustrations is as follows:

- Cantaloupe—iced
- Waffles — Butter — Maple Syrup
- Small Sausages
- Coffee

A simple enough breakfast, yet entirely satisfactory for either family or informal company. Especially desirable is it for a Sunday morning with a couple of intimate friends invited to share it.

On the table shown with this, the cloth is a colored linen, blue and white, with napkins to match. Such cloths are inexpensive and give a note of gayety to the table that is most desirable. Flagging spirits often need to be stimulated in early morning, and even a churlish temper is likely to give way before a colorful table and an *(continued on page 240)*



A modern kitchen showing electric range, cooker, and kitchen mixing device

If you live beyond the gas main

*Cooking and refrigeration facilities for the kitchen
that is not on the gas line*

FLORENCE LA FON

ONE of the problems in the suburban "gasless" home is the selection of a substitute for gas. Such a substitute that closely resembles city gas is a so-called "bottled" gas, a compressed gas (not a liquid) derived from natural gas. This bottled gas is used like city gas, although its heating value, it is claimed, is much greater. It burns like city gas and can be used with any standard gas range or other gas-burning appliances, so that the home owner can select equipment from standard products of various sizes and prices.

This gas comes in tanks and, connected

to the gas range, is used exactly as city gas is used. An illustration accompanying this article shows the up-to-date range that may be used in homes far from the city gas mains. The tanks are placed in an enameled steel cabinet, the cabinet

being set on a small concrete foundation in some inconspicuous location, usually against the rear wall of the house. Two tanks are always on hand so that when one is empty there will be another to replace it while a full tank is being delivered. This fuel is satisfactory and dependable. Its cost is a little higher than that of the average city gas although not greater than that of the manufactured gas supplied in many small towns. An installation of this "bottled" gas is about \$150 up, exclusive of gas, but including the range. This price depending upon the range selected and the cost of installation. *(continued on page 218)*



"Bottled gas" is fuel for this modern range which is equipped with temperature control. (Pyrofax Division, Carbide and Carbon Chemicals Corp.)

The new oil ranges rank in appearance and performance with the other new ranges. (Perfection Stove Co.)

Liquid fuel is not confined to cooking use only; at right is an oil refrigerator—a newcomer on the market. (Perfection Stove Co.)





With these utensils, which may be packed into a compact case, a meal may be cooked and eaten out of doors in comfort

Camping equipment for your vacation

The complete outfit for a trip into the country—everything from sleeping bags to cooking utensils

PHOEBE COLE

PERHAPS, if more women knew about the great number and variety of delightful things planned just to make camp life or even a brief walking-tour easy as well as interesting and comfortable, they would overcome their innate dislike of roughing it and would enter as heartily as do their husbands and sons into the preparation for a camp summer, and enjoy it as much.

There are several kinds of camping, to suit all tastes, the permanent camp and the traveling camp. Equipment for the traveling or nomadic type of camp depends largely upon the method of travel, whether by foot, by pack horse, canoe, or automobile. Even those nomads who travel afoot may choose two greatly varied methods, road tramping and forest cruising, and will need quite different outfits.

Walking tours are increasingly popular, perhaps because the automobile has revolutionized country roads, spreading miles and miles of concrete or smooth macadam through the loveliest country everywhere. The hiker usually carries only a few articles of clothing, toilet articles, and a thin waterproof coat, packed compactly into a neat rucksack which he carries on his back. He plans to buy his food and lodging as he needs it, wherever he happens to be. Road hiking for one who is not easily fatigued, is really a pleasant and healthful way of taking a vacation, but not nearly so adventuresome as forest cruising—that is, getting away from roads, venturing into the wild,

and shifting for oneself in the matter of food and shelter.

Weight is, of course, the chief thing to consider in selecting equipment for forest cruising. How to carry along enough articles to sustain life and insure rest seems rather baffling to the woman who does dote upon all the comforts of home; yet the makers of sporting and camping equipment have apparently thought of every emergency and met every need with some easily portable equipment.

Can you imagine walking all day with a folded tent strapped on your back? On the market there is a splendid little shelter tent, 3½ feet wide and 6½ feet deep, 5 feet high, that weighs, complete with waterproof groundcloth, only 3½ pounds. The same type of tent, planned to shelter two persons, weighs but 6 pounds complete.

Other hikers prefer sleeping bags, though these weigh more—from five to fifteen pounds—so they are more practicable for those who travel by pack horse, canoe, or automobile than under their own foot power. Sleeping bags are really quite comfortable, some of them being designed with a little canopy at the head that can easily be held up by a stick, so that wind and rain need not trouble the sleeper.

Cooking utensils and provisions must of necessity be very light for the walker. Even though he can depend upon game for part of his food supply, he will want some beverage, some vegetables and fruits, besides bread and butter. But there are obtainable the very lightest and completest cooking outfits that weigh only a few pounds; indeed, the Boy Scout cooking outfit, consisting of frying pan, stew pan, cooking pot, fork and spoon, all in a neat case, weighs only 1½ pounds. Another neat little collection, called the Pocket Kook Kit, contains a folding broiler, a pair of frying pans that can be fitted tightly together to form an airtight roasting pan, two cups, and a coffee pot; these, which all fold compactly and nest together, with detachable handles, weigh 31 ounces. (continued on page 236)



*Photograph by H. Victor Keppler
A collection of camp furnishings and utensils. (Photographs on this page by courtesy of Abercrombie & Fitch, R. H. Macy & Co., Hammacher, Schlemmer & Co.)*



An overvigorous plant may even commit suicide by overproduction of flowers, unless controlled by disbudding

Knifing the Rhododendron

*Bud pruning to keep the Rhododendron alive—
how and when to do it*

G. G. NEARING

TO MOST of us the Rhododendron is still something of a stranger. We know its beauty, but not its needs. The peat soil and permanent mulch, the abhorrence of lime, stand in such sharp contrast to ordinary plant culture that this noble evergreen and its allies may seem a law unto themselves. Yet the rules for success are few and easily mastered.

While Rhododendrons do not usually require pruning in the ordinary sense, ungainly plants may be cut back at any time before or after flowering. New growth breaks quickly on the old wood. Bud pruning, however, should be practiced as regularly and unfailingly as the cutting of Grape-vines or Apple boughs.

Neglected Rhododendrons sometimes actually commit suicide by overproduction of flowers. After a favorable summer, especially if newly transplanted, they will so overload themselves with flower buds, that when these open the following spring with a glorious burst of color, the energies of the plant are utterly drained.

After excessive blossoming Rhododendrons may be saved from death by nursing, but for a year or two expect no

bloom. About the second or third year another overproduction is probable.

The flower clusters unlike chickens



A spring transplanted Rhododendron is likely to carry too many buds the first season. So remove some, if not all. (Mrs. C. S. Sargent)

may be counted eight or nine months before they are hatched. By the end of August you can tell just how many trusses to expect in May or June.

Each growing tip prepares for winter by fattening a main bud or two, around which smaller buds are partly developed. If the principal bud is no broader than the business end of a leadpencil, blossoms will not grace that tip the following spring. But when a bud swells to the dimensions of a small onion, that tip has declared intentions which are nearly always carried out.

There is no rule as to the number of flower heads a Rhododendron can support without injury. Some varieties and species will bear more than others. Much depends on the health of the individual plant.

A majority of the older hybrids, such as Roseum Elegans, Everestianum, Mrs. C. S. Sargent, or President Lincoln, have gained popularity by flowering heavily year after year without harm. The native Rhododendron catawbiense usually follows a season of profuse bloom by putting out only one or two clusters the next year. (continued on page 268)

Planting the garden close to the house

Color schemes for the intimate garden from early spring through autumn

LILIAN C. ALDERSON

A GARDEN leading out from the house is always intimate and personal. Its influence is constantly felt, even when one is least aware of it. There are moments when we turn eagerly to it, as a respite from the fret and friction of everyday life.

To bring about an illusion of distance, the flowers must be just far enough away to compose into a picture, where parts are easily recognizable, but where the inevitable reminders of change and decay are softened by distance.

The flower borders shown in the photographs actually measure only 56 feet long by 15 feet wide, including the flagged walk, but the garden is made to seem much larger by reason of its background and disposition.

The sole axis between the house and the garden consists of the view from the porch down the garden path, with the rustic rose arch and gateway as a focusing point.

The porch is raised above the level of the grass and so, too, is the garden, gradually in terraces, with here and there a step or two.

The first terrace is formed by a retaining wall of field stone, all of it blasted from the rocky hillside behind the house. Between this wall and the flower border runs a Hemlock hedge, some 5 feet high and 2 feet thick, sheared so that it looks like a wall of feathery green. This hedge is a joy at all seasons, from the time that the first new growth puts forth its tender green. Its fragrance fills the air in midsummer with a delicate woody odor, and it is ever green and most beautiful and fairy-like when the winter flings over it its white mantle of snow.

On the other side a second retaining wall supports an upper terrace, wide enough to accommodate a toolhouse and small storehouse. In front of them

stretches a long grass panel, leading to a grape arbor, flagged underneath and furnished as an outdoor living room, with serviceable iron chairs and table.

From here the garden is seen from above. Looking down the steps in the wall, through clumps of white and blue Siberian Iris, a feast of color is spread out to gladden our eyes, Canterbury-bells, Sweet-williams, Lupins, Columbines, with tall spikes of Foxgloves rising above the wall.

The borders were planned for spring and early summer, looking forward to a holiday in August, and a home-coming early in September. This explains the preponderance of biennials and annuals, not usually met with in a perennial border. This would mean a good deal of expense, were the plants bought ready made, but actually nearly every one that was added to the perennials last summer was raised from seed by the owners of the garden. *(Continued on page 292)*



The informal "double border," with flowers each side of a walk, is perhaps the most alluring of all friendly gardens. See end of article for detailed planting scheme of this beflowered walk



Does your child need a garden?

*Give him a little plot and let him
sow, cultivate and reap*

I. GEORGE QUINT

CHILDREN are born lovers of flowers, and one of the greatest treats a parent can give a boy or girl is to help the youngster start a little garden of its own. In another month children will be turning their thoughts to promotion day, and behind teacher's back will be scrawling on the blackboard the familiar "No more pencils, no more books——." At the same time mothers will begin to dread the closing of school, with the children romping all over the house.

Now is the time to prepare for them a pleasure that will keep them busy, amused and happy all summer. Promise them a little corner in the garden for their own. If there are two or more children in the family, get them interested in competitive gardening, offering a prize for the best showing. If there is only one boy or girl in the family, engage him in competition with dad, or with the next-door neighbor's son.

Many a child's life has been saved by a garden. A normal, healthy youngster will spend considerable time in his flower or vegetable garden, time which might otherwise be spent in the motor-traveled street.

Have the garden started indoors, teach the youngster how to thin out his seedlings, how to transplant them and how to care for the outdoor garden. And when planting-out time comes, get him some overalls and let him crawl in the dirt. It will not do him any harm, and soap and water will get him clean again in a jiffy. Get him some tools, and let him have the happiest summer of his gay young life.

Planning is essential, as parents often make the mistake of selecting for their children flowers or vegetables that are not easy to grow. Remember, Junior is a beginner, and to keep him interested he must see results. Select, therefore, seeds which will grow easily and flourish in spite of a good deal of mishandling.

Of course, the amount of space to be allotted and the age of the child will determine in a large degree the varieties of flowers and vegetables to be grown. For the first garden, however, none but annuals and fast-growing vegetables should be sown.

There is a valuable lesson to be learned by watching the development of seeds.

They are embryo plants and, like very young infants, must be nursed tenderly. They are alive. They require food and sunshine. A baby without sunshine develops rickets, a seedling without sunshine soon dies. A baby must have room to creep, plants must have room to breathe and flourish. Infants are protected by many blankets. As they grow older they are exposed more and more to the elements. Seeds are the blankets for tiny plants, and as the plants develop the covering unwraps and the plant begins to climb.

The parents who will make their children see the relationship between plants and infants will do much toward making of those little folk kind, useful citizens.

The father undoubtedly can get a few cigar boxes to start the garden indoors. The cover should be removed, and three or four small holes bored in the bottom. These will permit water to run off while the plants are growing. An irregular chunk of porcelain, or glass should be placed above every hole, to prevent earth from going through the holes and yet not close it up enough to prevent water from escaping. (continued on page 302)



In this Canadian 50-foot-square garden the season opens with Darwin Tulips and Canada Phlox and, in spite of the big Maple, flowers are continued all summer

Succession of bloom in a shaded garden

Bulbs, annuals, and perennials to keep color and interest in the small garden with a big tree

DOROTHY F. HENDERSON
Landscape Architect

WHILE every plot calls for individual treatment, there are certain general principles for all small shaded places. This account of the flowers that were chosen and induced to bloom in such a Montreal garden will possibly illuminate the way for many who have found intense shade their great garden enemy.

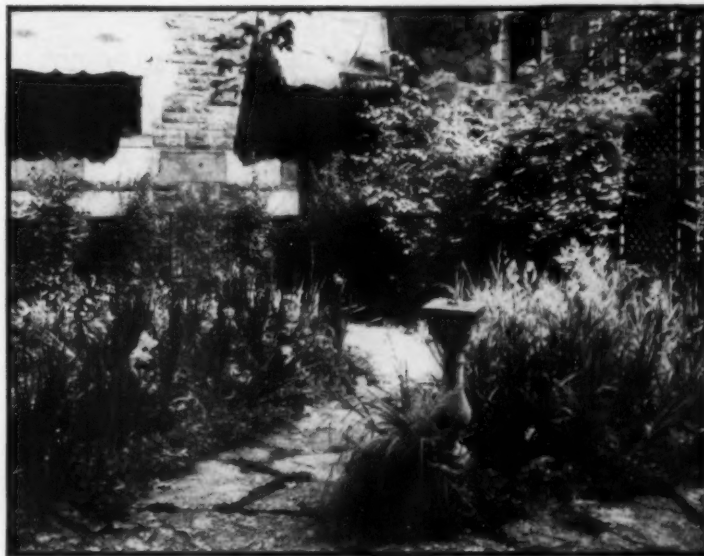
The pictures show a small area of 29 x 28 feet, Mrs. J. K. L. Ross's garden treated in a semi-informal manner. It is overlooked from two important rooms and is bounded by the house wall on one side, the conservatory on another, and, on the other two, by a well designed trellis. Naturally, in such an area there is little sun and no circulation of air. Adding to the shade is a large Maple tree whose roots also take most of the nourishment from the soil.

The problem of a succession of bloom, if indeed any bloom at all, was most difficult especially as a massed color effect was desired—a bold effect

rather than the beauty of individual flowers, for the garden is considered from the dining room windows more than from the garden itself. As the house is closed until Darwin Tulip time there is no one to

enjoy an early spring garden, one of those fascinating things of wild and cultivated flowers, such as Hepaticas, Trilliums and Scillas, Daffodils with all their golden beauty, and the early flowering Tulips, to mention only a few of the possibilities.

Our garden, therefore, commences with the Tulips; the Maple tree in rosy bud and tiny feathery leaf add to the beauty of a setting for the Darwin Tulips, without shading them and marring their exquisite beauty of form and coloring. I feel that spring coloring should be clear and tender, so I chose the lovely pink of Clara Butt—there is none among the newer varieties to surpass it in this respect. Add to it the strong lavender of Rev. Ewbank and the sunshine color of Inglescombe Yellow to complete the charming trio. A few Tulipe Noir were scattered through and are strong points of contrast. Under all is a mat of Phlox divaricata spreading lovely (continued on page 312)



Gladiolus take up the lead as autumn approaches

The seasons in a Southern garden

*The year-round garden in the South—some pointers
for the newcomer from the North*

MARY WILLIS SHUEY

PERHAPS the average Southerner has rather overdone his boasting about the wonders of the climate and the soil of his section. Even the garden magazines seem to take it for granted that no particular plan of cultivation or time of planting is necessary, for there are numerous articles about the planting and care of Northern gardens, and rarely a mention of the year-round garden of the South.

Of course, we have emphasized that idea of the ease of cultivation ourselves, putting our best foot forward and forgetting the old gardening shoes that are caked with mud. The gardens themselves have an unstudied beauty that seems due to nature rather than to careful gardening, and, away from home, the man who is most zealous with pruners and sprays may give the impression that in the rich soil of his state and with the sun shining most of the year, all that is done to produce flowers is to plant seeds or stick slips in the ground.

And with a great number of plants this is really true. Roses, Hibiscus, Poinsettias, any of the plants that grow from cuttings, will take root almost with-

out fail from November until April. But that doesn't mean that the summer is without scale, or that no fertilization is necessary for the best results.

The newcomer arrives from the North, and learns at his own expense and trouble that the Peonies and Lilies-of-the-valley that he planted in the fashion of his former home bloom one year only, for

the bulbs must be frozen. He learns too late that Hyacinths and Tulips and Freesias are seldom successful in the far South, and that while he may have the seed from plants of his old garden, bulbs are best left alone. Marigolds, Pansies, Calendulas and Verbenas bloom through all months, and while an occasional frost may blight the buds of the Nasturtiums and Sweet-peas, the new shoots are out again in a short time.

The first essential of the successful year-round garden is a background of permanent green. Colors are lovely, but there are times of heavy rains and shivery days, when the petals are beaten from the Roses, and the smaller plants are blossomless and forlorn. A background of plants that are perpetually green means beauty the whole year, and rest for the gardener. The South offers endless variety of plants and vines that can be planted for all time, and whether one chooses the widely favored Pittosporum, Ligustrum, Japanese Yew and Euonymus for background, or the flowering and fernlike plants, the boundary wall of green is the first requisite for our garden. (continued on page 308)



The first gardens of New Orleans were courtyards with growing plants set in pots

A Louisiana home in which vines drape the walls and old trees give shade



Common sense about watering

The richer the soil the greater the need of artificial supplies of the only food carrier

T. A. WESTON

EVERY gardener is aware that plants, like every other form of life, cannot exist without water. Both by way of the roots and through the foliage, plants absorb their food in liquid or gaseous form. The amount of moisture a plant absorbs is, of course, dependent upon its size and material character; soft stemmed annuals require proportionately more moisture for their well-being than hard wooded subjects, and if the soil is rich in fertilizing elements, growth is naturally more vigorous, which in turn results in a still greater call for moisture. If moisture is lacking, the richness of the soil is of no particular moment, inasmuch as without water, plants cannot manufacture the sap which supports growth.

In the open ground it may be thought that plants do not require water during the winter. Yet, as a general rule, it is during the winter that a large proportion of natural moisture descends, either in the form of rain or snow. It is true that deciduous trees are inactive, but the fact remains that if the soil were dust dry in winter, great numbers of trees and shrubs, especially evergreens, would die, which tends to prove that the sap in plants is always circulating. This circulation of sap is hastened as the temperature rises and in the spring, when foliage has developed, the call for moisture is increased, because by the action of sun and wind evaporation or transpiration goes on which necessarily means that the roots must have access to water sufficient not only to carry the needful food but also to offset what is evaporated. If sufficient moisture is not available at such a time, growth will be checked and if steps are not taken to make up the deficiency it will stop altogether.

Thorough cultivation of the soil is one means of assuring plenty of underground moisture. That is to say, soils that are deeply trenched will retain more moisture than those that are only lightly dug. The more moisture available in the soil, providing it is not flooded or waterlogged, the more active is the growth of one's plants. And since evaporation occurs direct from the soil as well as through the leaves of the plants, it fol-

lows that one must supply water artificially, especially to shallow rooting subjects. Trees which send their roots deeply down into the earth are not affected by ordinary spells of dry weather but many of the smaller plants we grow, both vegetables and flowers, soon show signs of distress.

It may be here mentioned that frequent cultivation by means of the hoe or other cultivating tools, so that the surface of the soil is always loose, goes a long way toward conserving moisture in the soil, inasmuch as it prevents rapid evapora-



All food for the plants must be dissolved, hence the need of artificial watering in cultivated areas

tion. Whatever the character of the soil, this equally applies; and if the ground has previously been well worked surface cultivation will tide most crops over an ordinary period of drought. But in the home garden one desires to have plants more than merely survive. And that being so we must be prepared to make up for a deficiency of rainfall, by artificial watering, for while it is true that rain because it is soft, aerated and more or less impregnated with ammonia, is especially appreciated by plants, ordinary water properly applied makes it possible for plants to grow to their maximum strength. Of course, one can never be sure what the weather may be; the past two summers for example were in the East so wet that there was practically no need for watering; but the coming season may be quite the reverse, therefore it behooves everyone to be prepared. Hose and watering cans should be over-

hauled in good time and if new appliances are needed, they should be secured before the season is advanced, for it may happen that watering will be necessary as early as April.

There are various methods of applying water to plants but to be of real service it must be thorough. When planting has to be done during a dry spell, and in the average garden this is often necessary, especially if one is a week-end gardener, it is wise to follow the underground system practised in hot, dry sections by large growers. Irrigation, as it is generally termed, consists of applying water to the land by way of furrows, the latter being filled in as soon as the water has soaked away. The home gardener who wishes to plant out bedding stock, etc., when the soil is dry can adopt the underground watering system at a great saving of labor and time unless he has a sprinkler system for overhead watering.

In hot, dry weather it is folly to water plants after they have been put out, for not only does the moisture quickly evaporate, but the soil becomes hot and cakes over so that the newly disturbed roots suffer severely. The right way is to make the necessary holes, fill them with water and then plant as soon as it has partially drained away, leaving the soil with a dry surface only visible. For established plants when only a few are grown and it is not desirable to get out the hose, the same system can be practised. Simply make a hole near the roots and fill with water and cover in as soon as it soaks away. The roots will thus be able to draw upon the moisture which is prevented from evaporating by the dry surface mulch.

Later in the season when more or less large areas have to be watered, it is impossible to haul water, and if a regular pipe line flow is not available, the gardener must perforce rely upon cultivation, for keeping things going during drought periods, carrying water either by can or a water barrow to plants most in need of it. I have worked in gardens of considerable size where the water had to be drawn from a well and taken around in a barrow. Needless to state, the hoe was more in use than the hose. (continued on page 310)

The late spring garden activities

*Separating weedlings and seedlings—watch
the watering and transplanting*

ELLEN EDDY SHAW

Brooklyn Botanic Garden

THE garden has been fertilized, spaded, raked fine; the seeds have been planted; and now young seedling plants appear above the ground. Now comes that interesting period in garden work when weedlings and seedlings are separated, the one from the other. Even if the weeds appear first, it is well not to attempt any weeding at all until well-defined rows of seedling plants appear above the ground. One of the great advantages of starting seeds indoors before the outdoor season begins is that one becomes acquainted with the appearance of the young seedling plants, for plants in their early stages—their baby period—look much alike. There is a certain weed, which, when it appears above the ground, looks almost like a young beet, and many a weedling looks and is close kin to some flower seedling. If gardens are consistently and persistently weeded from this early time until about the fourth of July, the whole problem of weeding is settled.

Take out the entire young plant when weeding. Children often weed by snipping off the portion of the weed that is above ground. It would be better far to leave it. Just the tiniest bit of root left within the ground may defeat all the work done by the weeder. Use the hand cultivator in weeding between rows of young plants. Hold the fingers of the weeder close to the ground and using a rotary motion, work the entire length of the fingers into the ground. Many people use a small-sized hoe for weeding. If this tool is used, hold the hoe so that a corner and edge of the blade strikes the ground and weed with a chopping motion, but not raising the hoe handle high into the air. Some people use the hoe as if it were a prancing horse.

CULTIVATION MEANS SUCCESS

Constant cultivation, because it destroys weeds, is the keynote of success in the garden. I prefer the small hoe for cultivating the garden, but some like better the hand cultivator. A hoe allows one to stand erect in a far more restful attitude than the bending over which is necessary when one uses a short-handled implement. Constant cultivation produces in the garden what we call a dust mulch, that is, a loose layer of soil on top of the bed. The theory of the dust mulch is that it holds moisture in the soil at the

place where we wish it, that is, in the root system area. If the vegetable garden is carefully cultivated and constantly cultivated throughout the season, no watering will be required unless there is a long dry spell. One cannot run a flower garden on this principle, however. More water is required there. But some beginner is saying, "What are you going to do when you put out your Tomatoes, Eggplants, Peppers, and Celery in early June, after some dry weather. Are you going to put these plants right into the soil without any extra water?" No; of course not; dig a hole, put some water into the hole, puddle it, so that a nice soft mud bed is there, and lower into this nice resting place whatsoever plants are to be transplanted. In setting out plants, place them lower in their new position than they were formerly. This is rather a good rule to go by, although it cannot always be used. Place the plant in its new position up to its first leaves. In this way you get underground practically all that part from which roots are given off and allowing for settlement of the soil. The feeding area, that is, the root system, of a plant is increased and growth comes on with greater speed.

CARE IN TRANSPLANTING

There are other times when one must consider this proposition of watering, times similar to those mentioned above, for one has to transplant, and in thinning out rows of plants too closely planted, sometimes water must be used. But in such cases be sure to water new positions and freshly opened drills, rather than watering the surface of the soil. In thinning out plants, one may follow directions given in detail in last month's article in this magazine. For flowers, any good seed catalog will give distances. For instance, suppose one has planted Zinnias rather closely together. The garden is small and we have decided to have our final distance between Zinnia plants eight inches. The first thinning should not leave the plants standing at this distance apart. Plants should have at least two thinnings, or possibly three, so that one does not start thinning too severely and leave little plants helplessly standing at great dis-

tances. Do not break up this feeling of plant companionship too soon. Take the vegetable garden, for instance. You will remember that we planted beet seeds very carefully two inches apart, but that, of course, is far too close for the plant of the future. By the way sowing Beets for the first time will give you a surprise. You really sow a fruit having several seeds in it, so you get a lot more plants than "seeds" sown. At the first thinning take out every other plant, and at the next thinning take out plants so that the beets stand six inches apart. That, of course, is close standing and would not be necessary in a large garden. Make no attempt to thin out Radishes, no matter how closely they stand. Their time of development is so short that spacing does not enter into the case. The same applies to certain border plants in the garden, like Sweet Alyssum. While books give distances for Sweet Alyssum to be spaced, it is better not to thin the plants, but to have them form a perfect mat as a border. It looks much handsomer that way. When thinned out, it becomes straggly.

LET AIR INTO THE SOIL

Cultivating after a number of hours, letting the night ensue when less of evaporation goes on anyway, is pleasant and easy, and the garden soil is left in splendid fine condition with moisture held beneath the surface of the soil and the top area in fine condition. Just these little points and hints make a vast difference in the health of our garden, for garden soil must be kept in good condition with plenty of air worked in from constant cultivation, and moisture held at the proper place.

I have not experimented with all the sprinklers to find out how long it takes for the soil to become thoroughly wet, but with one form having rotating arms it takes about three hours for a spot to become so thoroughly wet that the sprinkling does any good. A great many people put a sprinkler on their lawn, run out and leave it in one spot for half an hour, then move it to another spot for another half hour, and go through this nervous dodging performance every little while. This is almost a useless thing to do because no spot becomes thoroughly soaked. The idea is to get the water really into the ground.



A STRIKING
MARITIME PRINT

FROM FRANCE

with a wealth
of delightful incident

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Driwood Mouldings reproduce . . . and reproduce in wood—the depth and beauty of hand carving at a price which even the small home owner can afford. Driwood Mouldings are *not* plaster. They are *not* composition. They are wood—ornamented wood. For this reason they will neither chip nor crack. So that they rival hand carved mouldings for durability as well as for beauty.

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Driwood ceiling cornice, wall panel and chair rail in interior shown above. Driwood window casing and base were also used.



Flowery wallpaper, plain one-tone carpets, and an assortment of American Colonial styles and present-day upholstered pieces furnish the bedrooms

What makes the livable room?

Continued from page 179

interesting though simple arrangement. The essential fireplace tools stand nearby; and for decorative effect a handsome old copper warming pan is also hung there.

A small davenport at one side of the fireplace faces a simple upholstered chair and small table to make a practical and comfortable arrangement around this center of interest of the room.

Such arrangement creates in one corner a secluded nook for a desk and chair while in the other a screen masks an entrance to another room. A different style of arm chair covered with another kind of upholstery stands just beyond a small table, while in the opposite end of the room an equally delightful arrangement is achieved. In this latter are two upholstered chairs, one covered to match the davenport, the second covered to match the draperies and the high-back armchair near the fireplace. This end of the room has been filled with simple open-face bookshelves. Centered in front of them stands a reading table. There are lamps for floor and table, small smoking tables, some delightful pictures and flower arrangements here and there in the room, all helping to create the home atmosphere . . . livability. Yet no one period style is dominant. There are American Colonial pieces, English and Dutch tables, drapery materials which might be English or early Colonial American in pattern and small smoking accessories and lamp shades which are Oriental. The draperies are held back at either side of the windows

where ruffled voile curtains are also looped back in graceful drapings.

On the dining room was lavished the bulk of the spending, for we find all matching pieces in this room although they are simple and exceptionally well suited to the room. Again a one-color chenille carpet is used, the walls are covered with a landscape pattern paper and because of this predominance of pattern on the wall, the draperies are plain in effect (actually soft toned stripes). Like the living room draperies, these are held back at either side to let in as much light as possible and to permit a view of the outdoors through the ruffled dotted Swiss curtains.

The furniture consists of modern American copies of the popular Normandy provincial types and includes a simple dresser, a table adjustable to large and small sizes and armchairs as well as side chairs, the seats of which are covered to match the window draperies.

This same variety and interest in mingled styles is shown in the bedrooms. In one of them flowery wall paper is used, plain one-tone carpets and an assortment of American Colonial styles and present-day upholstered pieces. Throughout the house the rooms are consistently arranged for comfortable living yet the groupings are also made for good balance and harmonious relationship to each other. Here the new mingles with the old sympathetically variety of styles contributing to rather than detracting from, the satisfaction of the whole.

A spray for evergreens and shade trees

Red spiders on conifers make rusty summer foliage. Examine the leaves to make sure that the red spider is there causing the damage. If so, spray with a suitable spraying oil, diluting it one part to one hundred parts of water.

Those white scales on Pines, Spruces and Euonymus, also the woolly aphids on Pines are easily controlled at any time during the growing season by

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Bagworms and tussock moths are defoliating shade trees. Arsenate of lead, one ounce of the powdered form in two gallons of water, will kill them. Add two ounces of laundry soap or resin fish oil soap, or eight teaspoonfuls of spray oil to the two gallons as a sticker and spreader.

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A. H. 5-29

Try the outdoor nursery this summer

Continued from page 178

planned. Of course the most obvious of these is the playhouse, but unless one be fortunate enough to have some out-building which is located in just the spot required, it is apt to be a rather expensive luxury. It will afford the children great pleasure, however, and various are the delightful little houses of this kind which may be had to-day, both portable and otherwise. A variation of these, which would be lower in cost than the ready built playhouse, is one made on the order of a folding screen, composed of clapboarded walls fitted with windows and a door. This is set up to form three sides of the house and is easy to move about, though of course furniture and other perishable articles cannot be left within its enclosure at night, since it does not boast the protecting presence of a roof. It affords much pleasure in the daytime, however, and is hailed by the children as an excellent make-believe in spite of its architectural deficiencies in this particular respect. In winter a "house" of this kind may even be set up in the nursery, thus proving itself more practical for round-the-year use than the actually built house outside.

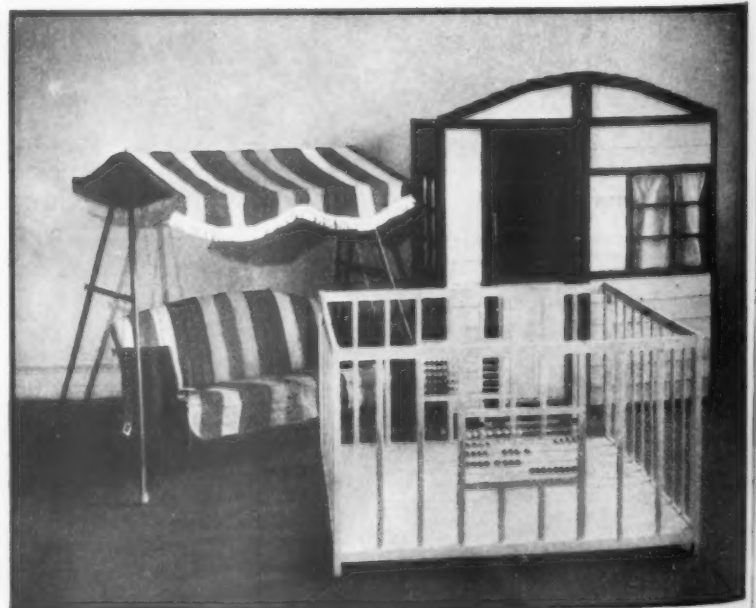
If the children have already an array of tiny chairs, tables, and other furniture, these may easily be rendered suitable for the playground. There is a new waterproof paint in all colors of the rainbow which is made for porch and garden furniture and which does not whiten or streak if exposed to storms as children's furniture is almost sure to be. A coat or two of this will render the furniture left in the playground impervious to the mischances of weather, and if cushions are desired they may be made of the new waterproof cloth which comes in such gay colors and which is so practical for outdoor use.

If the children's furniture needed additions, grown-up pieces are being copied extensively to-day in all sizes so that not only can the dollhouse be supplied with diminutive copies of Chippendale or Sheraton, but the playground may boast its little swinging seats and chaise longues. The former are especially attractive with

their gay canopies and upholstery and are fitted with iron supports and with awnings just like those of grown-up size. Deck chairs are also made in these small sizes, fitted with bright canopies and painted in cheery colors: they may be altered in height and angle like their older brothers.

A swing should be a part of the equipment of every playground and both sorts consisting of a wooden frame supporting two seats facing each other, and the oldtime rope variety may be had at will. The latter, which of course normally hang from a stout limb (if none now be available) may be supported by two strong timbers set upright and connected with a crossbar. Metal stands are also to be had triangular in shape and heavily weighted, two of which are set side by side and connected with an iron bar to make the firmest of supports for the swing with which they are supplied. A variation of the swing may be had if there be a steep slope in a corner of the playground by means of a rope, hanging over the slope from a branch or from an L-shaped erection on it, the end of the rope being tightly knotted about the sawed-off handle of a broomstick. By clasping a hand about either end of the stick and pushing oneself off the top of the bank over the incline below, the small boy or athletic small girl may obtain a thrill as he or she swings to and fro which the present writer has not even yet forgotten. The distance between the ground and little hanging feet is not sufficient to permit harm to come from a tumble, even should the strength of little arms give way.

Of almost as much importance as the swing and its variants is the see-saw, and this may easily be made, or may be bought support and all. The inclined plane approached by steps which lead to its highest point whence one may slide breathlessly to the ground is another joy to the younger generation, and both these playthings may be made without much difficulty by a father who combines a little ingenuity in carpentry with the (continued on page 208)



A little playhouse in the open for the younger child, as well as for his older brothers and sisters. (Courtesy of Lewis & Conger)

PYROFAX GAS SERVICE BRINGS REAL GAS TO COUNTRY KITCHENS



"The only fault I have to find with Pyrofax Gas is that it is so good my wife wants to cook with it all the time"

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"OTHERWISE it is wonderful," adds the gentleman who writes us the above comment on the Pyrofax Gas installation in his country home. When a woman has had to tolerate slow, odorous, troublesome fuels, she is apt to want to cook all the time when she has Pyrofax Gas Service and a genuine modern gas range in her kitchen.

Pyrofax is real gas, ready to serve every country and suburban home, in a genuine gas range. It is delivered in steel cylinders, is used exactly like city gas and it brings every modern cooking convenience to your own kitchen, no matter where you live. There are no delays, no adjustments, no inconveniences, no odors, no overheated kitchens where Pyrofax is used. Cool to use in

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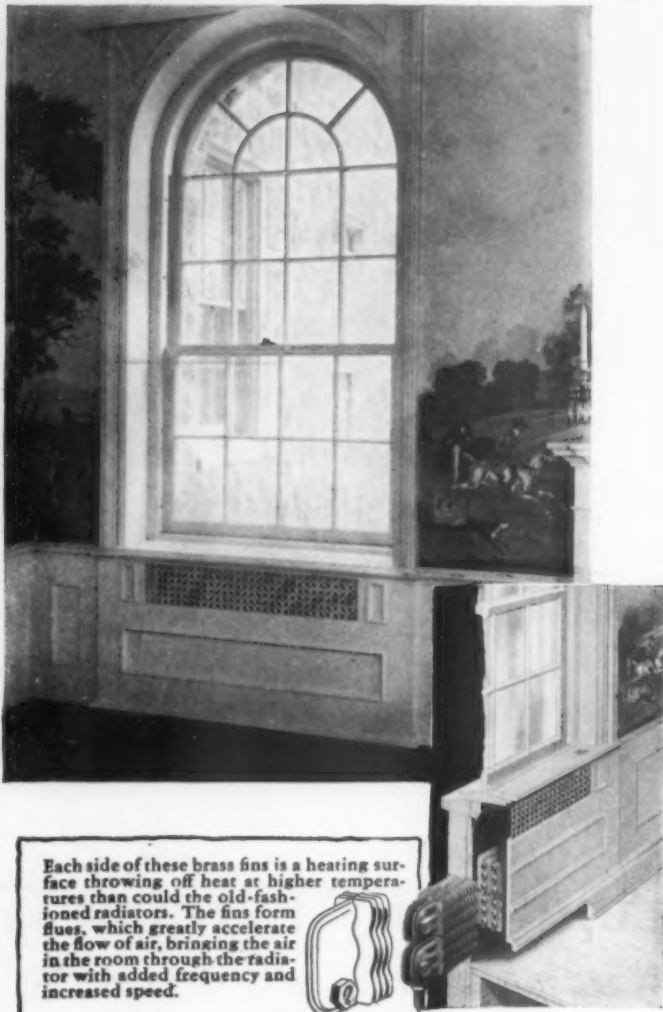
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Where the family may gather at tea time. This group, like all garden furniture, has been chosen for its durability as well as its comfort and beauty

The garden living room

Continued from page 174

experience with another kind! Church pews may have been good for concentration in the days of pioneer Puritans but they are not so good for relaxation in a garden.

The budget permitting, a bit of ornamental stone work or a terracotta jug will add a finishing touch to our out-of-doors living room. A bird bath, a sun dial, an ornamental fountain head, these give the suggestion of permanency to garden beauty. We must feel that winter cannot utterly obliterate this charming spot; that there will be a land-mark whence we shall lay out our garden once more.

Successful arrangement of garden furniture is based on the same principle as the arrangement of the indoors living room. A large family circle was once the mode. Each person

was offered a favorable view of a semi-circle of feet and everybody tried to talk at once, with the result that nobody said anything of consequence. Now-a-days living rooms are furnished on the group plan. There are two or three chairs, a table and a lamp in one corner. In another group is the Winthrop desk and a chair or two. In another, a tea table and some more chairs. Having broken up the circle we now segregate so that there is a chance to talk and to listen.

This same idea may be used with great success in the out-of-doors living room. Except for the occasional neighborly garden party, this living room is not to be distinguished by a babel of voices, not human voices at least, but rather shall it be a place to listen to nature's voices.

Try the outdoor nursery this summer

Continued from page 206

same amount of leisure. There is also (though this must necessarily be a somewhat expensive innovation) a delightful little merry-go-round equipped with an awning, on the little horses of which the children may twirl around to their hearts' content in the hottest weather by merely touching their toe-tips to the ground from time to time.

The sandbox is almost a playground essential, and may be variously obtained. The simplest and cheapest expedient is to enclose a pile of clean sand in a solid box or fence of wood, which latter must of course be securely embedded in the ground to prevent the sand from working out beneath it. More elaborate are the sand enclosures equipped with a brightly painted awning so that the children may play there even when the sun shines in that particular corner of the playground, and some of these are further elaborated by the alphabet and numerals painted along their sides so that instruction and play may presumably be combined. Another type of sandpile is a box rather than a pile, and consists of a table shaded by another brightly painted umbrella and equipped with four dear little iron chairs, also gayly dressed, which in form suggest those iron ones seen outside Parisian cafés. In the center of this table is a compartment

which may be filled either with sand or water, thus enabling the use of boats or of toy ducks and fish when the pleasure of playing with sand palls. For the very tiny child is a kiddie-koop of novel design which has an abacus set in its opposite sides.

While some of these aids to play are high in price none which have been mentioned are prohibitively so, and many may easily be made by home talent. The latter may be less fine in appearance but they will not for that reason be the less enjoyed by their owners, for after all it is not a fine appearance the child craves as much as suitability for his own use, which two qualities are often entirely distinct in his mind—much more than they often appear to be to the adult.

Many, too, are the variations of these ideas which may be worked out by an ingenious parent, either in playthings or in furniture. A father or mother handy with the jigsaw may cut out the ends of a very pretty bench for the children's outdoor use, and one especially quaint model was inspired by the odd outline of the penguin. Seats resembling toadstools are picturesque and useful, and these may be scattered about by driving stout stakes here and there in the playground and nailing inverted chopping bowls firmly upon them.



Armchair
3052

Reproductions from the most picturesque period in American home life.

The early 17th century in America was marked by little display of wealth. A few families, the Hancocks, Faneuils, Cuylers, Carters, Beverlys, and the Morrises maintained elaborate establishments with furnishings bearing the European influence. However, the great majority of people lived in simple, rugged cabin homes made picturesque with home-made fur-

niture. It is to the reproduction of these types that Stickley shops are dedicated. Each Stickley piece reproduces in the exact woods and identical finish an Early American forebear. A special process of wood aging further duplicates these rare and original masterpieces now obtainable for the modern home.

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Tourists welcome at factory showrooms 5 miles east of Syracuse on main highway — Route 5.

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is no freakish material; no passing fad or fancy. More and more it is being used in fine bathrooms and kitchens, because it is distinctly superior to *any* alternative product.

Beautiful—SANI ONYX brings a world of new colors and color combinations. **Practical**—it does not crack, chip, check or discolor; easy to clean and keep clean; requires no outlay for repairs or re-decoration.

Ideal for walls, ceiling, wainscoting, window sills, table tops, dresser tops, lavatory tops.

Send now for a beautiful free book, picturing SANI ONYX installations in full color.

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230 Brookside - Indianapolis, Indiana



A doll of embroidered wool yarn makes an attractive shade pull for a child's room. For more sophisticated rooms, tassels, glass rings or carved bone in white or color are effective. (Courtesy B. Altman & Co.)

New colors and fabrics in window shades

Continued from page 192

considered for any room that depends upon a vista from its windows for part of its charm. These lovely shades are a substitute for a view but sufficiently delicate to allow the light to penetrate efficiently. A good idea, here, for the apartment that looks out upon dismal brick walls or unattractive back yards.

Less expensive are the window shades of glazed chintz. These are much at home in bathrooms, bedrooms and kitchen. Suited also to the domestic nature of kitchen and pantry are glazed chintzes in gingham checks, with the added feature of a waterproof finish. These checks would also make attractive window shades for some bathrooms, with shower curtains of the same material. The ordinary glazed chintz is more perishable being designed primarily for upholstery purposes and not for the more stringent service that window shading entails. Treated with respect though, the chintz shade will stand up surprisingly well and will make up in charm what it may lack in durability.

Plain color chintz is employed as well as the florals for window shades. The plain may match the dominant color of the room furnishings with the addition of one of the secondary colors in the binding of the scalloped edge with which these shades are generally finished. The floral chintz shades are self bound or introduce a plain color binding, or sometimes the edges are finished with an inconspicuous fringe, toned to the neutral background of the print. Sometimes there will be a tiny background design through the whole print or a lengthwise stripe in subtle shades. Striped designs help to give an effect of height, balancing the tendency in the allover pattern in the shade to make the window look short and chunky. There are also obtainable a few two-toned glazed chintzes that lend themselves to slightly more formal rooms than do the colorful flowered ones.

Austrian cloth, that crinkly cotton fabric woven in slender vertical stripes once was vogue for roller window shades but it was found less practical than the smoother surfaces now universally employed. It is still used, however, made into casement curtains, obviating the necessity for a

shade. In the draw-curtain form, it can be easily taken down and washed just as is done with regular window curtains.

The plain shade requires the greatest amount of study. Like so many subjects it is found not to be so simple as the homely word "plain" might imply. Plain shades are full of all sorts of pleasant possibilities. Window shade cloths have been developed scientifically to do all that window shade service requires and to do it extremely well. Roughly, they fall into two classes, hollands, or cambrics (or what are known as painted cloths). The painted cloth is so named because it is treated with linseed oil to make it less sensitive to temperature and climatic changes. Good quality holland, a very fine muslin with a starched finish, has long been generally conceded the fabric that makes a most beautiful shade. Cambric shades, too, have made great strides in the matter of beauty. In length and satisfaction of service, both cambric and holland shades have individual merits. In some cases, hollands are preferable, in others, the painted cambric cloths prove more desirable. There are practical points to be stressed in both directions. However in either case it will be a long time before the shade shows wear and tear, if a good quality of either material is purchased. In the long run shade economy means a fair investment at the very beginning. On the basis of lustrous appearance there have recently been developed beetled painted cloths, that show the faint moire surface of the fine beetled holland, being similarly finished. Moreover, they have the added virtue of being cleanable and "washable." That is, they may be wiped with soap and water on a flat surface to remove dust and dirt. No shade fabric may be washed by being tubbed. It cannot retain in the ordinary laundry processes those qualities that make it serviceable as a roller shade. All painted cloths are not classified as "washable" but the linseed coating does make them more resistant to dampness and rain. In the "washable" class there are most durable and attractive shades made from an impregnated (continued on page 214)

ADEQUATE HEAT FOR EVERY ROOM GUARANTEED



**“Who wants to keep cool? . . .
we haven't been warm once all winter,”
storms Mr. (Cold Family) Robinson**

Even in springtime there is trouble in the Cold Family Robinson household. Mother has been reading the vacation ads. “Bald Eagle in the Worcestershires—let's go there this summer to keep cool,” she impulsively suggests to Father, who is buried in a pile of bills. But this is like throwing a match into a gas tank.

“Don't talk to me about keeping cool,” he begins, jumping up and pacing the floor. “I want to get warm for once. We were cold all winter. And look at what we've got to pay for coal,” he adds, eying the invoices. “Look at these bills for gas and electricity on account of running the oven and the toaster and the waffle iron to try to get warm.”

Junior, keeping a safe distance, warily suggests, “We might have brought in some animals. The physiology book talks about animal heat and” Father's glare warns Junior that he has said enough.

But Maybelle, dressing for a date, is happy at last. Once more she'll be popular. Thanks to the heat of the sun, her boy friends won't be driven away by a cold parlor.

The Cold Family Robinson could have had plenty of heat last winter, with less cost for fuel.

If they had only had their heating system installed according to the International Plan!

The International Plan, by cooperation of the International Heater Company and selected dealers, absolutely guarantees adequate and economical heat for every room in any kind of weather.

This Plan gives infallible assurance of efficient, economical service because it covers both the heater and the work of installation. Up to 72° in all kinds of weather for every room is guaranteed with efficiency (not peak) loads.

The use of the International Plan of Complete Heating Systems Guaranteed adds immeasurably to the values of property, whether non-residential or residential buildings. Write for booklet fully describing this Plan.



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“Complete Heating Systems Guaranteed” tells how the International Plan guarantees the heater and the installation. “Helpful Heater Hints” is the most authoritative work on operating a heating plant. Check coupon to the right for either or both.

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page 214)



RITTER FLOORING

Manufactured Exclusively from

Appalachian Oak

DODDINGTON HOUSE
COLUMBUS, OHIO
RITTER PARQUETRY
FLOORING USED

FOR HOMES

*that make no compromise
with cheapness*

Not gaudy but rich -- not flashy but beautiful -- Ritter Appalachian Oak Flooring suggests the culture of the home in which it is used.

Out of the Appalachian Highlands comes this finer flooring . . . from timber slow grown amid ideal conditions of climate, soil and drainage, producing a texture of velvet-like appearance -- a grain of exquisite harmony.

Consult your architect about Ritter Flooring. He will tell you how it will blend with the other fine appointments in your home.

W. M. RITTER LUMBER COMPANY
Largest Producers of Appalachian Hardwoods
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New colors and fabrics in window shades

Continued from page 210

cloth treated with pyroxyline. Scrubbed on a flat surface with a brush, soap, and water, they will come out fresh and new and are most decorative and desirable, with unusual light absorbing qualities.

Painted cloths, on the whole, have less translucency than do hollandes, though in the lighter tones the cambrics allow enough light to filter through to be very charming. The amount of light one wants to have penetrate must therefore be taken into consideration when the texture of the shade is decided upon. There are also actually opaque cloths, through which no light sifts. These are more expensive but considered well worth the price if a light colored shade is wanted together with the total exclusion of light without recourse to a double-faced shade with one dark and one light side or the use of a second separate dark shade.

When two-tone shades are employed, it is more for decorative purposes than for light exclusion. Two shades are also frequently used, the second shade to be rolled up close and tight except when in use to darken the room. This gives a chance for the main shade to be as much a feature of the room's decoration as of its utility. Two-tone shades are found frequently developed in two light colors, one to conform to the color used throughout the outside of the house, the other to give a note that reflects the feeling of the individual room.

Plain shades, in whatever color they are chosen, may have their own small

touch of decoration, in the pull used with them. Fancy shade pulls have been returning to fashion for some time, after a period of neglect. They may be charming or amusing, according to the mood of the room. Little wool dolls or figures made from painted leather, for example, are juvenile and serve as an extra toy in the nursery or child's room. For grown-ups, there are the conservative tassels and pulls that end in silken crochet acorns. The ring pull, whether plain crochet or colored glass, is practical as well as pretty. Sometimes such ring-pulls are of crocheted cord, some introduce color into the crochet by means of colored beads. Mirror-like balls, silver or iridescent in color, or pieces of carved ivory or bone are other possibilities for the more elaborate room, at the end of window shade cords.

Less interesting but no less important are some of the technical details of window shade hanging. A good economy, though it adds somewhat to the initial cost, is to have the window shade cut from nine to twelve inches longer than the window frame itself. Then, when the lower part of the shade becomes irretrievably soiled, as it may in time, the hem can be cut off, the shade reversed and reattached to its roller and slat. By this simple investment in extra length, the life of the shade will be practically doubled. The extra length will also prevent the shade from being pulled off its roller, in the effort to pull it down to cover the window entirely. Thus is avoided domestic tragedy.

Festive awnings for any color fancy

Continued from page 191



When selecting the awnings consider the type of architecture of your house. (Courtesy Otis Company)

leaving a solid color in the center of the awning. For some types of architecture such as Colonial and Early American this is particularly attractive.

Because of the constant demand for durability you will find department stores and awning material manufacturers making interesting experiments which protect the consumer from the ever present danger of fading materials. We find that a large New York department store has developed a laboratory where awning materials are subjected to tests of an ultra violet ray machine which is played upon the fabric over a period of time, to determine how much sun the various colors

will stand without appreciably fading. Naturally the rays of light to which the material is exposed are concentrated and equivalent to long exposure to the sun. As it is an established fact that the presence of moisture accelerates the fading, artificial moisture has been created under this powerful lamp. One can see readily that all this experimental and research work tends to eliminate the "buying blind" factor which existed for so long a time.

The natural sequence, because of such constructive developments, is the protection of the ultimate consumer and the fact that one can buy the (continued on page 216)

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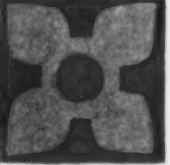
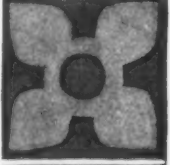
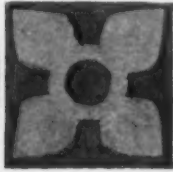
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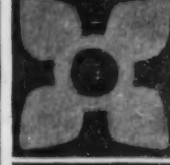
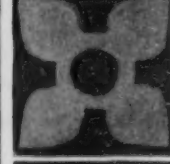
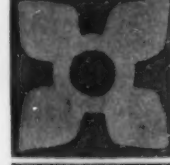
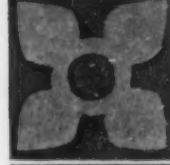
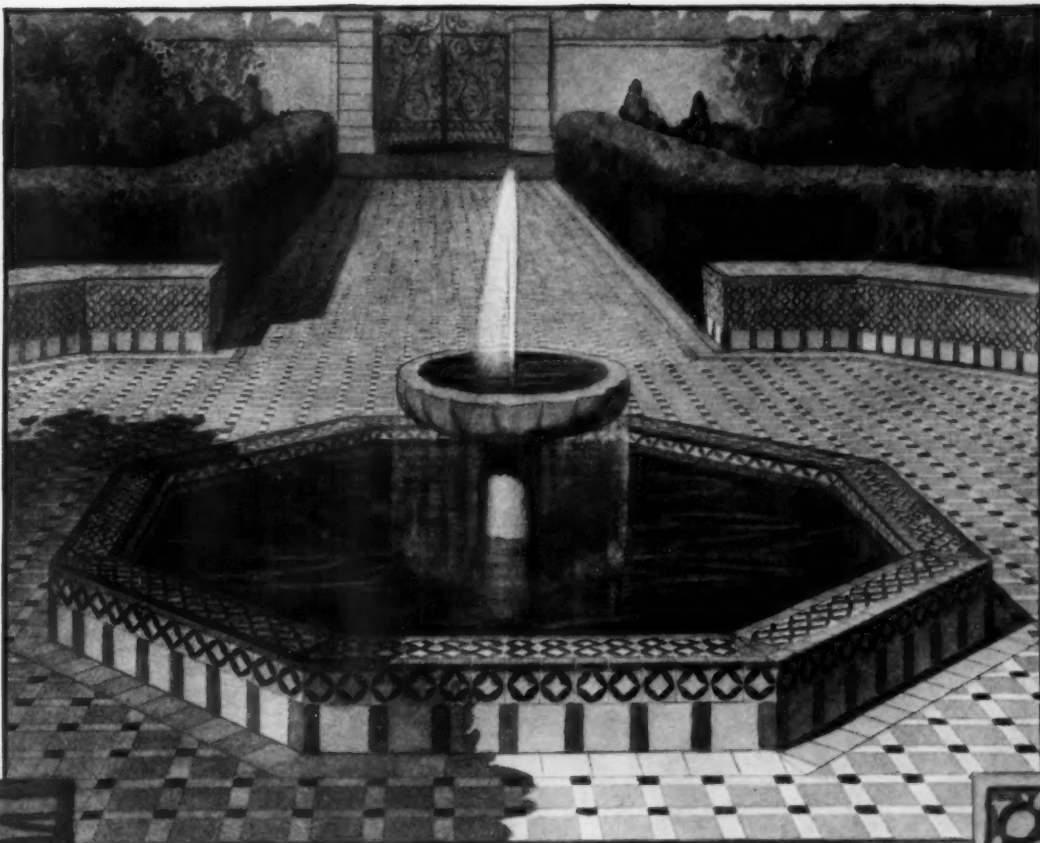
Unless You Have An Iron Stag

Leading architects and landscape artists are using the mellow beauty of Pardee tiles to give both gardens and fountains a rich distinction, instead of the drab gravel walks which go with the days of the old iron stag on the lawn.

Just visualize for a moment the warm mellow colors in your garden walks of Pardee tiles—with colors from autumn hydrangea to a lapis lazuli, and a fountain with the silver spray splashing and dancing over the sapphire blue and emerald green tiles, intensified by the shimmering water.

And remember, Pardee faience tiles will be as beautiful in years to come as they are today. For their soft gleam is unaffected by snow, ice, sleet and frost.

The high temperature burning process of Pardee tiles make them scratchless, stainless, everlasting. Ideal for bathrooms, kitchens, hallways, sun-porches, etc.



MAIL THE COUPON TODAY

The C. Pardee Works, 101 Park Avenue, New York City

- Send me free color sketch of tile treatment for the installation of which blue print is enclosed.
- Send me without obligation your brochure on Pardee Tiles for all types of home installations.

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"Beauty is created by the emotion of the artist"—SCHOEN

ADVENTUROUS... modern... intriguing... are these creations of Roseville craftsmen. In them you see expressed through fascinating form the spirit of vital artistry... fashioned with today's appreciation of beauty.

How you will adore these Futura shapes! Picture flowers in them... wonderfully exquisite in your home... a touch of dashing charm in your living-room or hall or library... yes, in any number of places.

Many are the kinds of pieces to choose from... in several soft harmonies of delicate coloring... with tastefully modeled decorations... superb... distinctive... vastly interesting!

There are jars, vases, bowls, hanging baskets, jardinieres, window boxes, wall pockets, candlesticks... scarcely any two alike. Displayed at leading stores, where you may make a selection for yourself, or remember some one with a cherished gift.

We will gladly send you a free copy of the beautifully illustrated booklet, "Pottery". Write for it.

THE ROSEVILLE POTTERY CO., Zanesville, Ohio

**ROSEVILLE
POTTERY**

Festive awnings for any color fancy

Continued from page 214

vivid colors one desires without the fear of their becoming an entirely different tone after exposure to the elements. Working along parallel lines, come the manufacturers of dye stuffs providing a wide range of permanent colors for out-of-door materials. To-day, one no longer need select neutral and seemingly durable colors, but can safely indulge one's taste for a colorful dressing of bright oranges, brilliant reds, sparkling blues, or practically any color that will blend with the particular background.

Every traveler is impressed with the unusual effects of colorful awnings and large decorative sunshades along the Mediterranean and Adriatic coasts. Even the Italian and French fishermen have discovered that the sails of their boats are more attractive if they dye them some beautiful soft color. To-day one will find the Mediterranean dotted with sails of light hennas, copper and Venetian reds and golden yellows.

An interesting and new note is that this Venetian sail cloth, in solid colors has been adopted for awnings and lawn umbrellas all along the Mediterranean, as well as being definitely accepted here by numbers of suburban home owners. In many instances one will find the entire exterior color scheme built around one vivid solid color. The predominant note displayed by the followers of this particular vogue is Venetian red, or a variety of the rust tones.

Unquestionably, practically all of our suburban sections have taken on the colorfulness, only found heretofore in the more exotic European resorts. Driving through almost any section one chooses, everything ranging from Spanish to Cornish architecture will be discovered. It is therefore extremely important that one's awnings, umbrellas and outdoor furniture conform to, rather than conflict with, whatever type of house one may have chosen. When an otherwise rather drab atmosphere can be so beautifully dressed up, and for practically no additional cost, it seems a shame not

to do it. There is nothing more detrimental to the general effect, however, than faded, worn-out awnings.

If we decide on a solid color for our general decorative scheme, there is a delightful new material being shown of two colors of thread woven together. There is no pattern, and the result is an intriguing color that gives the appearance of a solid, but is actually two-tone. Alternate strands of this fine thread are twisted together, brown and red, red and orange, cream and red, blue and gray, green and gray and so on.

One manufacturer of awning materials has prepared a helpful color chart which might be useful in finally determining as whether warm or cold colors are necessary to set off your particular background. This seems especially practical because in one case harmonizing is more desirable, while in another, decided contrast of colors is essential.

This chart may be helpful in the choice of color combinations, as one will often find because of the color of the house, or the combination of color and background, that the effect remains cold, whereas with the contrast of warmth in the color of the awnings and general outside dressing, a very beautiful effect is produced, the warmth complementing the otherwise cold appearance.

Another awning material company has an interesting note in its catalogue, in which it offers "coöperation and advisory aid in the selection and artistic installation of awnings." It outlines several plans which may very well be helpful, as to color combinations, style, and a variety of other things.

In choosing your awnings it would be very worth while to take advantage of the experience of people who have made a specialty of these things, and a line dropped to any of the outstanding awning manufacturers or one of the many leading department stores will bring very genuine coöperation. In most cases they are willing to put the resources of their research departments at your disposal.



Full of design and color is the awning for the house of Mediterranean inspiration (Courtesy Swansfeldt Tent and Awning Co.)

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LEGACY FINDS PERFECT EXPRESSION IN THIS 3-PIECE TEA SET, \$65 · LEGACY TEA SPOONS · "EIGHTS" \$5.00 · "SIXES" \$3.75

LEGACY · *the New pattern*

No silverware pattern in history ever scored the instantaneous success that has greeted LEGACY . . . In the six months since its debut it has broken all sales records.

The reason is delightfully self-evident in the pattern itself. It is the first truly modern pattern in silver-

ware . . . the first to embody the crisp, straightaway lines of modern art.

New as the latest issue of Vogue or Harper's Bazar in its modernity. But with four generations of 1847 ROGERS BROS. Silverplate artistry back of it. Lucky is the bride who is starting her silver service with LEGACY.

GENERAL OFFICES: MERIDEN, CONN. SALESROOMS: NEW YORK, CHICAGO, SAN FRANCISCO. CANADA: INTERNATIONAL SILVER COMPANY OF CANADA, LIMITED, HAMILTON, ONT.

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SILVERPLATE

INTERNATIONAL SILVER CO.



Screened Casements

yet CONVENIENTLY controlled

ALL the beauty of a casement is here realized to the full, because the inner-screen *never* has to be opened. A touch on the Win-Dor operator swings the casement wide, or draws it shut—*tight!* No flies enter, no curtains are soiled. Win-Dor operators lock casements positively and automatically in position—rattle-proof, gale-proof, secure! For wood or steel casements.

This handsomely illustrated brochure tells all that you've long wanted to know about casements.



A fascinating, beautiful book. Send for it today, enclosing ten cents.

Win-Dor

CASEMENT HARDWARE

THE CASEMENT HARDWARE CO.

402-E North Wood Street • Chicago, Illinois

CASEMENT HARDWARE HEADQUARTERS

If you live beyond the gas main

Continued from page 194

An installation of this kind, like practically everything else now for sale, is sold on time payment plan, if desired. This gas, as mentioned above, can be used for lighting and for gas-operated appliances now available.

Still another and very old standby is the oil stove. The new oil stoves must not be confused with those of a few years back, for so many improvements have been incorporated in the new models that they are practically equal in performance and appearance to any other type of stove you may employ. These new oil ranges come in all-white enamel, in colors (also in black) and are very attractive to look upon. They have ovens, with temperature indicators and regulators, just like the gas stoves, they are dependable in performance and you can cook in them anything you can cook in a gas or electric range. If you buy a good oil stove you will not be troubled with smoke, soot, or odor. Of course, a cheap range is a cheap range, no matter what type of fuel you employ.

New oil ranges have reversible reservoir, of glass, in which the oil level is always visible, and which can be easily reversed for refueling without soiling the hands and without stopping the burners.

Another new oil range has automatic wickless burner construction and needle valves. There are also models with long chimney wick, in two, three and four burner types. An outstanding feature of these new models is the extra row of cooking holes, doubling the capacity of the stove without increasing the fuel cost. Cooking is started on the front holes, directly over the burners and continued on the fireless cooking holes with the front holes tightly covered. For instance, a four-burner stove has eight holes, the front ones for quick cooking and the back ones for long-time cooking, where not much heat is required or desired.

Still another manufacturer advertises a stove with a safety feature, making impossible the flooding of the stove. The range is equipped with safety control and even if the generator and burner valves are opened, the fuel supply valve will not operate until the generator is sufficiently heated. If the generator flame is accidentally extinguished, the fuel supply is automatically cut off.

Nor is liquid fuel confined to cooking use only. There are water heaters, a new oil-operated, automatic refrigerator, self-heating irons, radiant heaters, instant-lighting lamps and lanterns, etc. Water heaters may be had for use with standard 30-gal. tanks, using two burners. Another model combines a heater and a 30-gal. storage tank with a thermostatic shut-off, in one complete unit.

Mechanical refrigeration is not necessarily a city convenience only, for in addition to the electric refrigerators available for the gas-less homes, there is also an oil refrigerator, a new product on the market. It is made by one of the largest manufacturers of oil stoves and is getting a very cordial welcome in the homes of the country.

This refrigerator is powered by heat from ordinary kerosene. It operates on the absorption principle, as differ-

entiated from the motor-driven, compression systems employed in practically all of the domestic-type electric refrigerators on the market. This oil refrigerator can be used anywhere, as it is entirely independent of gas or electricity. The only outside connection needed is with the cold water supply line of the water system. It gets its power from heat—from the same heat given in the kerosene-burning cook stove. The burners are in a compartment entirely separated from the air-tight food compartment and are concealed from view. All that is necessary for its operation is that once a day the small heating-unit door be opened, the burners slid out, and the glass fuel reservoir filled. This reservoir holds about a pint of kerosene. The two burners are lighted and slid back into the cabinet. The burners have asbestos lighting rings and when the fuel, which lasts 75 to 90 minutes, is entirely consumed, the generation process is completed and the burners go out. "Only once a day," the manufacturer explains, "you 'light it and leave it.'" This refrigerator defrosts itself. During the generating process the food compartment maintains its low temperature but the condensing unit defrosts itself.

The food compartment of this new oil refrigerator is of one-piece porcelain enameled steel, with tracks for racks or shelves pressed into the lining—no screw holes, seams or joints. Because of its rounded corners it is easy to keep clean. The outside of the cabinet is of sheet steel, finished in a gray lacquer, with the condenser or cooling tank in satin-black lacquer. The first model of this refrigerator to make its appearance on the market has a food storage capacity of 5 cu. ft. It is 34 in. wide, 23 in. deep and 61½ in. high overall. This refrigerator is made to sell for about \$280, f. o. b. factory.

While on the subject of refrigerators, you might be interested in one that may be used anywhere—as the manufacturer expresses it—"in the city home, on the farm, in the summer cottage or in the wilds of Africa," for even running water is not required for its operation. It is truly a self-contained appliance, simple in operation. It operates on a non-mechanical principle that is as easy to handle as a tea-kettle. The "refrigerating unit" consists of two large "balls"—a "cold ball" and a "hot ball." One end of this unit,—the "hot ball"—is heated once-a day on any type of stove. (For those who wish it, a special kerosene burner is available. This small stove retails for about \$9; with tub stand, about \$10.25).

The "hot ball" is placed over the burner or on the stove and heated until a whistle blows (after the manner of the familiar steam pressure cooker). It is then removed by its teakettle-like handle and submerged in soft cold water to start the freezing process. The unit is then placed in the cabinet and refrigeration starts. In one "ball," of course, is the "refrigerant," tightly sealed. These simple operations take about eight minutes a day and furnish refrigeration for 24 hours or longer. With this type of refrigerator, (continued on page 254)

Study this

CHARMING DINING ROOM ARRANGED BY MARSHALL FIELD & COMPANY



Number Four of a Series of Room
Interiors by America's Foremost
Decorators

AND FEATURING THE NEW KNICKERBOCKER SUITE ON DISPLAY
DURING MAY BY LEADING FURNITURE STORES EVERYWHERE

THE dining room illustrated above was created by the Decorative staff of Marshall Field & Company to illustrate what can be achieved, at very moderate cost, if care and taste are used in the selection and arrangement of your furniture and furnishings.

The Knickerbocker suite, by Berkey & Gay, for which the room was designed, will be on special display during May in leading furniture stores throughout America.

This charming suite is an authentic modern interpretation of the famous Duncan Phyfe style, so highly popular today, as in years gone by, for its graceful simplicity of line and Colonial refinement of detail.

The beauty and value of the Knickerbocker are further heightened by the harmonious contrasting of hand-matched woods and the many commodious drawers and compartments for linen, silver, china and glassware.

Typical, indeed, is the Knickerbocker suite of Berkey & Gay craftsmanship. Inspect it, together with many other advanced Berkey & Gay

creations, at your leading furniture dealer's—during MAY. And watch his newspaper advertising for further announcements.

DETAILS OF THE MARSHALL FIELD ROOM

For the Knickerbocker suite, Marshall Field & Company have designed this exquisitely simple and appropriate setting, with woodwork, panelled walls and ceiling in old white; oak finished floor in medium brown; and rug copied from a sixteenth century palace carpet. The glass curtains are ecru marquisette, with over-curtains of glazed chintz in a floral pattern of rose and soft green on an ecru background, hung from gilded wood poles with pineapple-shaped

ends and held back by mirror glass holders with cord and fluffy tassels. On the sideboard is a Wedgwood Queensware bowl, embossed in Wedgwood blue on deep ivory, with two crystal candelabra and ivory candles. Over the sideboard an eighteenth century flower oil painting, with antique gold frame to blend with the rich colors of the flowers. For the table a beautiful Pointe Venice scarf with sterling silver bowl, hand-chased. Chandelier in dull

gold with silk shades to match and chair coverings in green and gold frieze.

For a host of similar hints on interior decoration and furniture arrangement—including a fascinating new chapter on *Moderne Furniture*—consult the new 1929 edition of the Berkey & Gay "Furniture Style Book," endorsed by the country's leading decorators. Send fifty cents in stamps or coin for your copy.

BERKEY & GAY SUITES ARE PRICED FROM \$200 TO \$6000

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Cost-of-Arms, inset in
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piece—your protection
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guide ever after



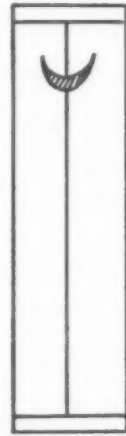
Mettowee Stone

in variegated natural colors is now readily procurable from your local building material dealer. If perchance he has none in stock, write us and we will give you the name of the nearest one who does.

Your garden will take on a decidedly "dressed up" appearance this spring with a winding walk of these beautifully colored stones, just as Nature made them. Even when laid as a floor in the conservatory or other rooms the warmth and spirit of summer days is brought into your home and dwells with you the year around.

Send for our illustrated literature "S"

VENDOR SLATE CO. INC.
EASTON • PENNSYLVANIA



How to make the new window blinds

Continued from page 182

patterns in the batten type than in the panel, for one may saw directly on edges which are to be joined by the cleats. An ordinary compass saw is very useful in cutting out the curves. No great ability is required in its use. Short, quick strokes, with the saw held vertical to the work, enable one to follow curved lines with ease. A coping saw, similar to the familiar jig saw except that it is operated by hand, is a useful tool in cutting lighter panels.

Auger holes permit the starting of the saw within the pattern form if it cannot be started from the edge of a plank. Sharp corners in the design must be obtained by cutting in two directions toward them, rather than in attempting to twist the saw blade past them.

Designs for ornamental motives in blinds are limited only by one's imagination. The most used patterns are moons, fleur-de-lis, hearts, crescents, ships, trees, candlesticks, or family initials. Individual designs which suggest a character or special interest of the family which dwells within the house, seem appropriate. However, one should avoid the far-fetched or bizarre.

One of the most original ideas on the subject of peep holes in blinds came to light recently in the form of colored glass applied within the openings. When, for any reason, the shutters are closed in front of the windows, the light coming through the peep hole is thus colored as desired, just as with the larger areas of a church window.

To appear conventionally correct, the blinds should be built with accurate, square ends and be lined up exactly with the top of the upper sash and the bottom of the lower sash. Practically speaking, whether they will close accurately and snugly is not so very important, because blinds are no longer used for protection in moderate climates. I have seen them made out of line on purpose to give a "free hand" effect to the house design, indeed so out of line that there was no need to test them to see if they would fit. Even a child could see they would not fit. Nevertheless, the desired effect was obtained.

There are certain very beautiful green paints for shutters, verging on willow or live hues. Chrome colors are *(continued on page 224)*



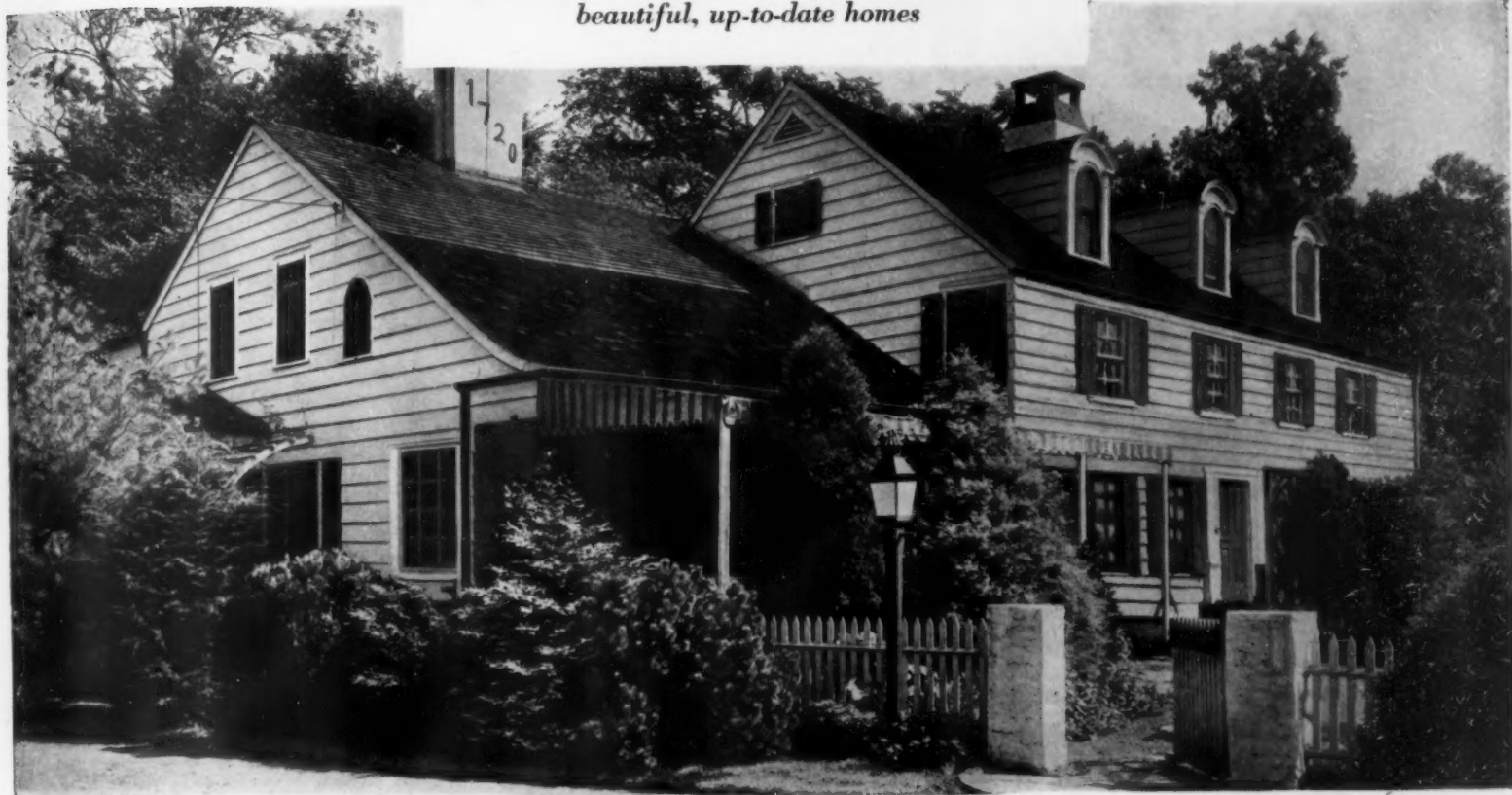
An easy alteration of old-style shutters: the upper section of slats has been removed and a panel inserted which is held in place by small moldings



This attractive window would be characterless without shutters or blinds

Not new Just MODERNIZED!

Lumber, now grade and trade marked for
your protection, transforms old-fashioned houses into
beautiful, up-to-date homes



(ABOVE) Mill Farm, at Harrison, N. Y. A splendid house more than 200 years old. Lumber, properly used, gave it new life and beauty . . . while still preserving its early American character and charm



(LEFT) Here is the same house as it was a few months ago. Dilapidated . . . falling to ruin. But careful use of lumber saved it . . . made it beautiful, comfortable . . . an entirely modern dwelling

WHAT a contrast! What a startling change . . . all through the use of lumber.

The modernizing of this home was really very simple . . . and surprisingly economical.

Just a few roof line changes. New doorways. Some attractive new shingles and siding. New floors, paneled walls, book shelves, kitchen cabinets . . . all of wood. And you have a beautiful house that looks entirely new!

Thousands of old homes, once considered obsolete . . . out of date . . . are now being modernized . . . Houses are given new charm . . . new character. Sales values are remarkably increased, thanks to the adaptability of lumber.

You simply consult your local builder, lumber dealer, or architect. Tell him that you would like to modernize your home.

He will give you ideas . . . work with you . . . help you in every possible way.

Know the lumber you use. "American Stand-

ard Lumber from America's Best Mills" is now obtainable both grade marked and trade marked.

If you want ready assurance of standard quality—lumber plainly stamped with the mark of the expert grader—look for the grade mark on each board.

When the "National Tree" symbol, shown below, is also stamped on the board, it is the guarantee of the National Association that the grade mark is correct.

This guaranteed lumber can now be had in every species. Inquire for it of your local dealer when you buy lumber. If he cannot supply you, write us and give his name.

Remember that there's an abundant supply

of lumber, relatively low in cost and of better quality than ever.

The lumber industry is becoming a great forest-growing industry. Its raw material—timber—is perpetually renewable. Liberal use of wood is the stimulus to commercial forestry.

Write for further information about these new lumber services. Booklets will be sent you free, entitled "Taking the Mystery out of Lumber Buying," "Transformations of Old Houses," and "Modern Home Interiors." These booklets are full of interesting and valuable information that will be a great help to you when you use lumber.

NATIONAL LUMBER
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Dept. 401, Transportation Bldg.,
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Offices in New York, Atlanta, Pittsburgh, Boston, Chicago, Indianapolis, Dallas, Memphis, San Francisco, Portland, Ore., Kansas City, Minneapolis, Los Angeles

THESE 17 great associations affiliated with the National Association maintain particular information and service organizations that coordinate with the general services of the National staff.

†California Redwood Association, San Francisco, Calif.—Redwood
California White & Sugar Pine Manufacturers Association, San Francisco, Calif.—California Pines, White Fir
Hardwood Manufacturers Institute, Memphis, Tenn.—Oak, Gum, Southern and Appalachian Hardwoods
•North Carolina Pine Association, Norfolk, Va.—North Carolina Pine

*Northern Hemlock & Hardwood Manufacturers Association, Oshkosh, Wis.—Hemlock, Maple, Birch and Northern Hardwoods

*Northern Pine Manufacturers Association, Minneapolis, Minn.—White Pine, Norway Pine

*Southern Cypress Manufacturers Association, Jacksonville, Fla.—Cypress and Tupelo

*Southern Pine Association, New Orleans, La.—Long Leaf and Short Leaf Southern Yellow Pine

*West Coast Lumberman's Association, Seattle, Wash.—Douglas Fir, Sitka Spruce, West Coast Hemlock, Western Red Cedar



*Grade and trade marked lumber available in these species. †Trade marked lumber available in these species.

†Western Pine Manufacturers Association, Portland, Ore.—Pondosa Pine, Idaho White Pine, Larch
National American Wholesale Lumber Association, New York, N. Y.
National Association of Wooden Box Manufacturers, Chicago, Ill.
*Maple Flooring Manufacturers Association, Chicago, Ill.
British Columbia Lumber and Shingle Manufacturers, Ltd., Vancouver, B. C.
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American Wood Preservers' Association, Chicago, Ill.



The Modern Window Screens

Rolscreens

TRADE MARK

—No Spring Re-hanging

—No Fall Storing



A section

through guide showing lug in selvedge of screen wire which prevents screen from sagging. A "non-sagging" feature found only in Rolscreens.

Rolscreens

- Are a permanent part of the windows
- Roll up and down
- All metal construction

The "old time" screens were a strain on the family ties semi-annually until they were down in the fall or up in the spring. All that is over now. Rolscreens are a part of the windows. At a touch they are up and stored out of sight.

With no unsightly frames and the special non-rust electro-plated "AluminA" wire which allows a clear vision, Rolscreens endow a practical necessity with new beauty. These modern screens are built to last a lifetime and are fully guaranteed.

ROLSCREEN COMPANY
257 Main Street • Pella, Iowa

Write for illustrated Rolscreen booklet



How to make the new window blinds

Continued from page 220

inclined to be "fugitive." The chemical action, under exposure to air and light on the pigment constituents, tends to chase away yellows and incline the greens to a blue cast. Amateur mixing of green paint without a knowledge of the resulting chemical reactions, is inadvisable. Consultation with a painter, a dealer, or the purchase of the best ready-mixed outside green paint, is the safest procedure.

Blinds need at least three coats of good outside paint, well dried between

each coat. If they are of raw, new wood, the first coat should be a primer, mixed as specified in the directions on the can. A finishing coat of spar varnish is an added guarantee against the destruction of our handiwork by the elements.

The home carpenter has found it easier to make a bookcase than a properly squared-up box, but there is not a man or woman who has wielded a saw, who would shy at making a box lid. A solid board window shutter is no more complicated than a box lid.

Furnishing a one-room apartment

Continued from page 181

in the home. The growing popularity of the country is another excuse for the very small apartment, which may serve as a shelter in town while weekends and summer days are spent in closer proximity to fields and trees.

Business women and bachelors are the staunchest champions of the one-room apartment. They sleep, eat, and entertain within its four walls, and it serves each purpose in turn as though it were created simply and solely for that particular use. Large buildings tower skyward, honey-combed with these friendly single cells. The occupants are not evading the responsibility of homes. They have merely learned to evolve a "home" within a smaller compass than their forbears would have believed possible.

Recently, I visited a young woman who lives in one of these great buildings, close by a broad river with window glimpses of cobweb bridges, blurred by the haze of distance. Another outlook revealed a delightful formal garden, an oasis of green in the city's canyons. The inviting living room in this apartment gave no indication that it served as sleeping quarters as well. The casement windows, flung wide to the sunlight, might well have belonged to a country house and the chintz hangings fostered this pleasant illusion.

The room had been painted an unusual tone of blue-green, with a great deal of depth in its coloring. The background of the draperies was the same shade, and the floral pattern was printed in tangerine and apricot with touches of mulberry. Apricot gauze curtains hung at the glass. The simplicity of the hangings (which were made without valances on rods which extended only across the sides of the windows) was most effective.

The carpet, covering the entire floor space of 11 x 22 feet, was black and an excellent foil for the vivid tones in the room. Two casement windows faced the river, and the pair on the other side of the room looked out on the street. The radiator at this end was enclosed and used as a window-seat. A small couch on the adjacent wall wore a slip cover of green, made with a pleated slounce. Behind it hung a Numdah rug with a beige

background on which a pattern was developed in tawny orange, green, and yellow. On either side of the rug was a small hanging book-shelf, one conventional in form, the other rather modernistic. The latter was lacquered an interesting shade of red, tempered with orange which related it to the draperies, and to the pièce de résistance of the room, a large club chair, unusually deep and roomy, upholstered in glazed chintz of a tangerine tone, and bound in the blue-green of the walls.

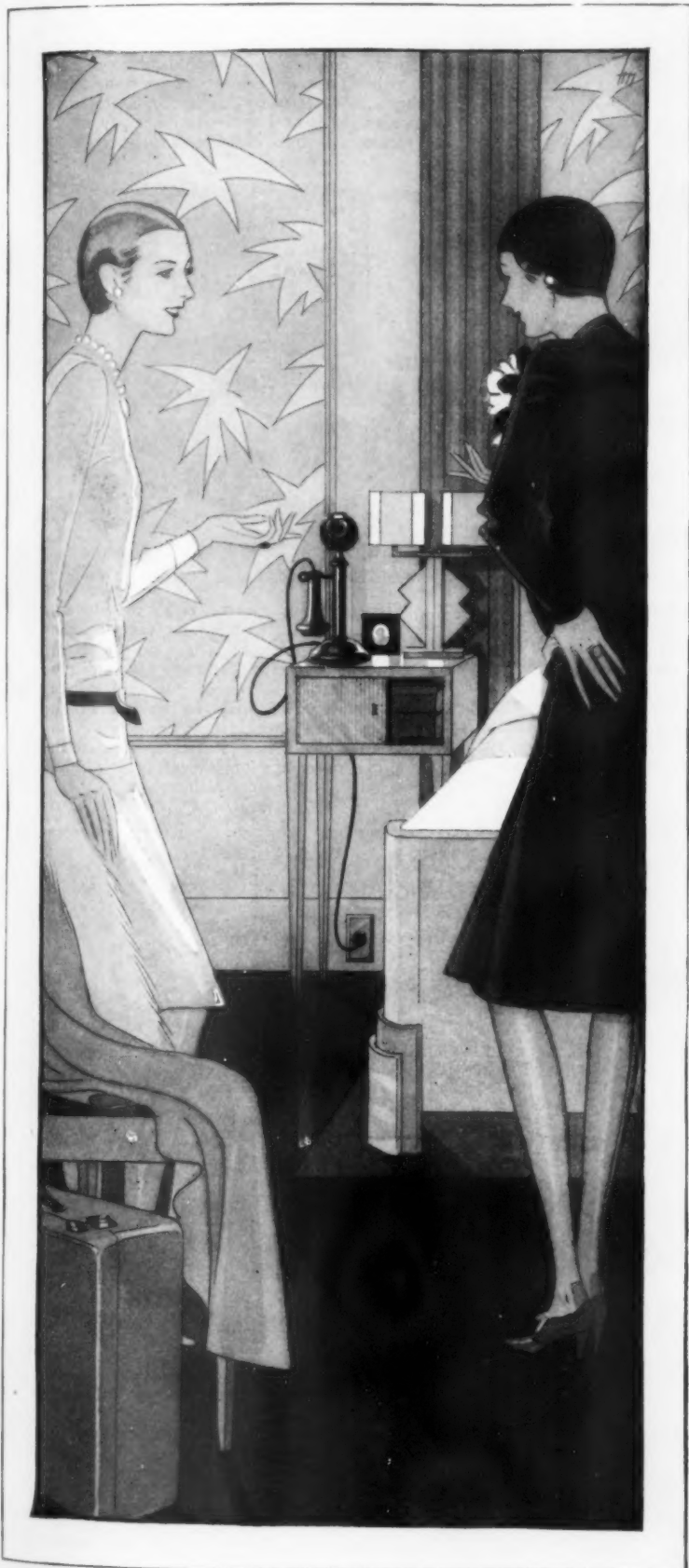
I asked my hostess where she slept, and she opened a closet door and let down a pair of built-in beds whose existence I had never suspected, even from the grouping in the room. Then the owner proceeded to "explain" the other pieces of furniture. There was an interesting old Jacobean piece developed in carved oak. This had once been a child's cradle but had been subsequently mounted on four legs and a stretcher base and covered with a hinged top, making it an excellent receptacle for wearing apparel. A console table with several drawers was placed close beside a full-length mirror, set in a closet door. The table was used to hold lingerie, while the two small lamps which flanked it made it a delightful living room group.

The desk, also painted blue-green, stood beneath the windows which afforded a magnificent view of the river, and was one piece of furniture which did not lead a double life. Several occasional chairs with rush seats were painted black with a small flower design picked out in gay colors with a touch of gold. A gateleg table was used for impromptu meals, and a smaller edition of the same type, with two drop-leaves, fitted in the space next to the beds and held a lamp, a vanity-box, and a few books.

The room is lighted only by lamps which are, for the most part, simple pottery or glass affairs that depend for their effectiveness on color and shape. The grouping of the furniture was such that the room is divided naturally into a living room and bedroom section, although this is not apparent until the functions of the various pieces of furniture have been explained. The (continued on page 223)



Few Guest Comforts are as Important as provision for Telephone Convenience



"A car . . . guest card at the club . . . theater tickets . . . a telephone right here in the room"

OF THE many thoughtful things it is a pleasure to provide for guests, few yield as much comfort and convenience as the personal telephone in the guest room. This thoughtfulness for guests has hastened the idea of telephone convenience for every member of the family.

Leading architects are incorporating it in their plans and specifications for new and remodeled homes. Builders, grasping the popularity of the new convenience, are constructing conduits in walls to provide telephone outlets in nearly every room. Owners may then have instruments placed wherever needed. They may also secure such added facilities as push buttons and switches for intercommunicating systems, portable telephones, special bells and lights.

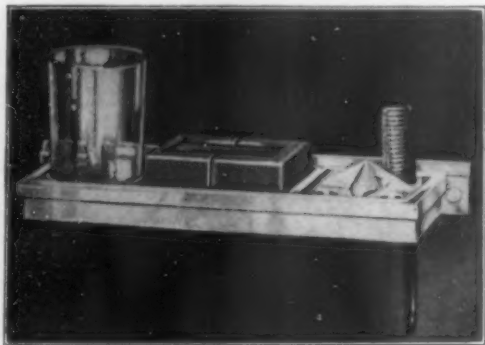
Each new home has its individual requirements and complete telephone convenience can also be added to any house or apartment already built. The Business Office of your local Bell company will be glad to determine which special arrangement is best suited to your own residence. Just telephone them today.



DEVICES FOR AMERICAN HOMES

Conducted By

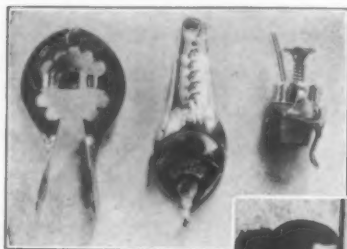
Shirley Paine



Certainly one of the most practical bathroom accessories. Combines three purposes; saves in screw holes, brackets, etc. Kiln baked china; lasts forever; cleans with damp cloth. A sound value at the price. Holds 4 tooth-brushes, soap, tumbler. In white glaze, \$3.75; Nile green, lemon yellow, orchid, light blue, \$5.75, including 2 glazed screw head caps and envelope plaster Paris; p'paid, east Miss.



Expello—vapor in crystal form—penetrates tiniest crevices, permeates all fabrics; harmless to clothing or furs. In cans containing 8 handy bags for use in chests, or trunks; also in perforated cans to hang on wall. Either style \$1.10 postpaid. The U. S. Dep't. of Agriculture tested it on hundreds of healthy moth worms, all were killed promptly.



Left: When shelling eggs for salad a second's pressure on two handles makes an even crack so shells slip off in a jiffy. \$1.15. Center and Lower View: Combination wall opener and corkscrew, chromium plated. Works like a charm, never lost. Towel hook below! \$1.40. Fix-Elite corks (right)



button and out it comes under pressure. \$1.15—all postpaid.



Probably no single thing has half-blinded more guests (next to grapefruit) than harmless-looking quartered lemons garnishing the fish. But now one of America's finest household supply stores comes out with a new squeezer in silver plate. A pinch of the fingers does the rest. \$4.40 set six postpaid.



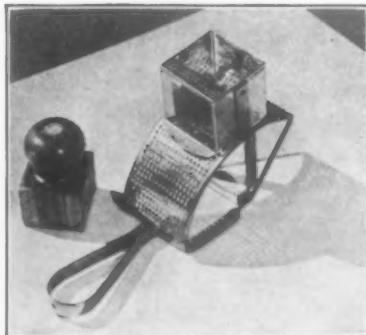
A REAL DEATH SENTENCE TO DISH-WASHING (Left)

The very thing for family suppers with theater an hour away. Tray is heavy tin finished in black and gold bird design. Refills are spotless white sanitary paperboard. Room for all the food—a place for butter. Resists grease, meat, and fruit juices, even the cutting edge of a knife. Tray lasts indefinitely. Gift box of 4 trays and 20 refills, \$1.50. Extra refills 10 for 25 cents, 25 for 60 cents.



Something in smart vogue in Vienna, Paris, Berlin. No need for carrying the old clumsy type. Slips into an underarm bag yet at the first drop of rain magically opens into a full-sized umbrella! Purses in combination may be bought in all leather and colors. Umbrella alone: Plain silk, \$18.50, shadow stripe, \$25. With purse in choice of leathers; Plain silk, \$35; shadow stripe, \$40.

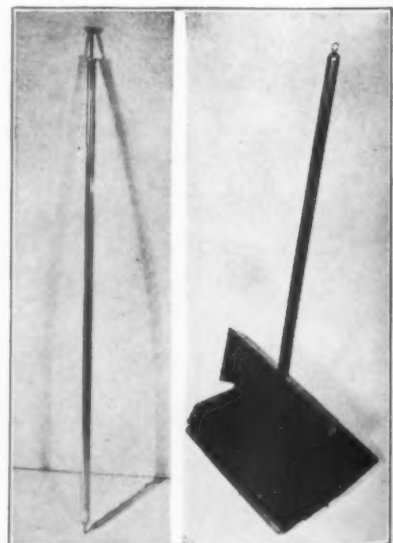
Anyone can have a healthy green lawn anywhere. The Vex method is an enamelled brass cylinder 12" long, 3" diam. Into this slips a cartridge of Lawn-Vex, most concentrated fertilizer known, enough for a plot 40 x 60. Equal plant food to 100 pound sack ordinary fertilizer. No odor, no muss; Cylinder, \$7.50; Cartridge, \$2. Folder.



This new grater effectively prevents injuring the knuckles or fingers when grating hard cheese or bread crumbs. If you have ever tried to do a hasty grating job on hard Italian cheese for macaroni you will know exactly what I mean. Merely place a fair sized lump in holder, replace the wooden knob and force down against the grater. The lever action does the rest. The price is most reasonable. \$1.35 postpaid. Checks to Shirley Paine.



This new style outfit may be instantly changed from a chair into a safe crib which may be revolved in any direction, and the child will be as comfortable as in its own bed. Out of the way of other automobile passengers; does not obstruct entrance of car. Also hangs over either side of front seat. Price \$9. F. O. B. Chicago. Transportation. Collect.



Kills rankest weeds, dandelions, poison ivy; no effort. All brass, lasts lifetime. Press cap at top end with point at heart of weed—in 3 to 6 seconds the job is done. Harmless to animals, clothing or human beings. Price \$5. . . . The Polly Prim dust pan avoids stooping, collects every bit of dust against back hood without spilling a speck. Price \$1.50.



-BY A SINGLE HAIR

The sword of Damocles, suspended by a single hair over the head of the luckless banqueter, is a fitting symbol of the uncertainty of pipe that gives only *partial* protection to your home. For such pipe may fail at any time, ruining walls and furniture with a deluge of water.

"Five Point" Pipe—Reading Genuine Puddled Wrought Iron—is *completely* dependable. This means that it resists *all five* of the forces that cause ordinary pipe to fail—corrosion, breakage, leaky joints, "weak spots" and peeled-off coatings. Generations of actual use have proved that Reading

Genuine Puddled Wrought Iron will outlast your house!

Untried substitutes, offered at lower prices, are on the market today. Insist on getting Genuine Puddled Wrought Iron—made by the time-tested puddling process which coats every inmost fiber of the pure metal with rust-resisting silicious slag. To prevent error, we place the Reading name, date of manufacture, and our cut-in spiral knurl mark on every length of Reading Genuine Puddled Wrought Iron Pipe. Look for this identification—then you will know you are getting *complete* pipe protection.



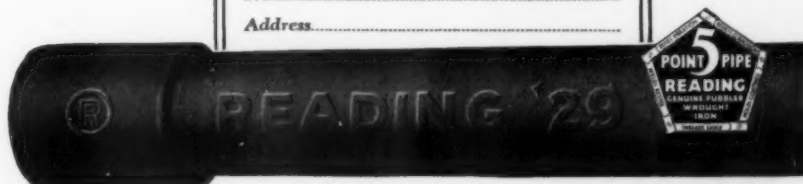
Reading Iron Company, Dept. H.
Reading Pa.

Please send me, without obligation, a copy of your free book, "Pipe Pointers", giving interesting and valuable facts about Reading Genuine Puddled Wrought Iron Pipe.

Name.....

Address.....

Reading tubular goods are furnished in sizes ranging from 1/8" to 20" in diameter.



READING PIPE

GENUINE PUDDLED WROUGHT IRON

READING IRON COMPANY, Reading, Pennsylvania

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IMAGINE!-- a Lifetime of Service



==== \$4.95 =====

in an iron that maintains
exactly the heat you want

Here's a unique new invention that's going to take a tremendous lot of inconvenience out of ironing day:—at the turn of a small red dial, the Torrid Automatic Iron gives you exactly the heat you want, at any time, and at all times. . . Think of it!—low heat for dainty fabrics—medium for costly linens—high heat for heavy homespun—or any desired heat in between. And, better still, this sturdy iron maintains precisely the right heat for as long a time as you desire! . . . Guaranteed, too. The heating element in the Torrid Automatic is guaranteed not for one year, or two years, but a lifetime! And the special insulated cord will outwear ten

ordinary cords. . . A cool, comfortable handle in Cherry Red, Delft Blue, Woodland Green, or Canary Yellow blends charmingly with bright kitchen color schemes. . . Yet, with all its remarkable features, this almost human iron is surprisingly low in cost—only \$4.95 complete with safety type cooling stand, and bakelite plug. . . Most dealers carry Torrid Automatic Irons. Other Torrid irons range from \$2.50 to \$3.60. Send coupon today for free booklet listing twelve exceptional electric appliance values. The Beardsley & Wolcott Manufacturing Company, Waterbury, Connecticut.

TORRID Electric HOME HELPERS



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Waterbury, Conn.

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"The Remarkable Mrs. Jones."

Name

Address

A. H. 5-29

Free Booklet
lists 12 excep-
tional values.
Send coupon.

Furnishing a one-room apartment

Continued from page 224

arrangement makes for a unified effect, in spite of the triple service which the room renders its owner.

The kitchenette is a large cupboard in the tiny hall which widens into the living room. As its whole interior is visible when in use, its owner has taken particular pains to make it a decorative feature of the apartment. When the doors are flung wide, one sees that the panels on the inside have been lined with a blue and green marine paper in a modernistic pattern of fish, seaweed, etc. The moulding around the panel has been painted the same red as the hanging book-shelf. The oilcloth is also red, with a tiny design of the zodiac, printed in gold.

The bathroom is complementary to the living room in color, as the apricot and tangerine shades which have been used for accents in the one are the chief colors in the other. The walls and ceiling are tinted this shade above the white tiling, and little gold stars have been applied to the ceiling. The bathroom accessories combine apricot and green, while a small dressing table in one corner is painted the same blue-green as the living room. Many rooms require a good deal of study before they can be made to perform all their functions as adequately and attractively as has this room. The first step in the right direction is a list of your requirements. Do you want a folding bed or do you prefer a davenport, if your apartment is not supplied with a built-in bed? Would you rather have a day bed? Is your closet a potential dressing-room or is your bathroom large enough to serve this purpose? If neither of these arrangements is possible, what pieces of furniture would you select which are suitable to a living room and might also contain your personal belongings and your toilet articles?

Individual wants must determine most of these questions, but there are certain general rules for one-room apartments that will hold good for the majority. Do not use "bedroom" colors but select schemes that would be suitable to a living room. For instance, pink and white or even pale blue and pink are difficult, but rose color and hydrangea blue or apricot and green are delightful. Mulberry and yellow is a combination that is attractive, and deep ivory with orange and brown has been used with great success. Frilly curtains, lacy spreads, and draped dressing tables are banned in a room of this type. Lamps should not have fussy shades, and all dressing table paraphernalia must be carefully concealed.

If you intend to use your closet as wardrobe and bureau, the shops are showing a wide variety of attractive contraptions that help to utilize every inch of space. Small chests of chintz-covered drawers will serve for lingerie and for miscellaneous articles of apparel. A rack on your closet door may hold all your shoes, thus leaving your shelves free for decorative sets of matching boxes which contain hats, gloves, stockings and so forth.

Your bathroom may have sufficient space for a dressing table or a small vanity. In any case, your toilet arti-

cles can be kept there, in a medicine cabinet or on hanging shelves. If you have no private bath, attractive large boxes, which have a mirror inside the lid and are often ornamented with old prints, may occupy table space in your room without advertising the fact that they contain comb, brush, powder, and other necessities.

You may have your choice of a bed which turns into a desk, a davenport which opens out to do adequate night service, or a day bed which requires little juggling when you are very tired and anxious to retire with all speed. If you use a day bed, place it against the wall and see that it is covered in a suitable living room fashion and not arrayed in organdie or lace. Bolsters and cushions along the wall help to conceal its true purpose. I have seen velveteen and cotton damask employed to good effect as covers. Since your daybed serves as a couch during the day, the material selected should be durable as well as attractive.

A secretary which may have a varnished, lacquered, or painted finish is a clever piece of furniture for the one-room apartment. The upper section may contain books, the desk can be used for writing, and the drawers, which are apt to be commodious, may hold wearing apparel. A highboy is another good selection for the living room-bedroom. It should, of course, be topped by a pair of lamps, candlesticks, or vases, so that its true function is not too apparent. The regulation bureau or chest of drawers with attached mirror is not suited to the living room aspect of your quarters.

One or two comfortable upholstered chairs, covered in fabrics that show due regard for your window draperies, are necessary. A few straight chairs are always useful, but the number of these will be determined by the size of your room and the figure of your budgets. As to tables the folding variety is an excellent choice for a room of this type. By this, I mean drop leaf or tiptables, or even a bridge table. These do well for occasional informal parties and do not occupy space when no meals are being served in the apartment.

Speaking of food, the room that has no kitchenette may acquire a very marvelous little table that is porcelain-lined and equipped with such conveniences as percolator and toaster. When it is shut, it appears to be an ordinary living room piece of furniture, but it opens out completely for cooking and serving, and even contains small drawers to hold a limited quantity of silver and linen.

A clever substitute for a dressing table is a French provincial or a painted "vanity," which is a decorative small table when closed but conceals a large mirror in its lid and has capacious compartments for toilet necessities. There are other ingenious devices on the market which fit under beds or stow away in odd corners, and are designed to hold the overflow from bulging closets without marring the appearance of the small apartment. In fact, ingenuity is being exerted in all directions to make one room do the work of three effectually and attractively.



A FUEL BILL TO BE ENVIED

"You may be gratified to know that I am much pleased with my Spencer Heater. The cost of my coal during the past year was \$80. You have a fine product and you ought to be proud of it."

—Harvey C. Bickel,
110 E. Lexington Ave.,
Baltimore, Md.



THE UNNECESSARY PART OF YOUR PRESENT FUEL BILL

... would buy you a **SPENCER**

Suppose that you could stand all day, and all night too, before the heater in your basement. Suppose that you could know each exact moment that the fire needed another ounce of fuel, and you should toss it on. It would catch fire at once with no smoldering and smoking. Then do that over and over again, feeding one small bit of fuel at a time, and you would approximate the efficient way in which fuel is fed by its own weight from the Spencer storage magazine.★

Yet even that would not show why the Spencer can save as much as half your annual fuel bill. Until the Spencer was invented, man knew no better way to make heat than by burning large size fuels on flat grates.

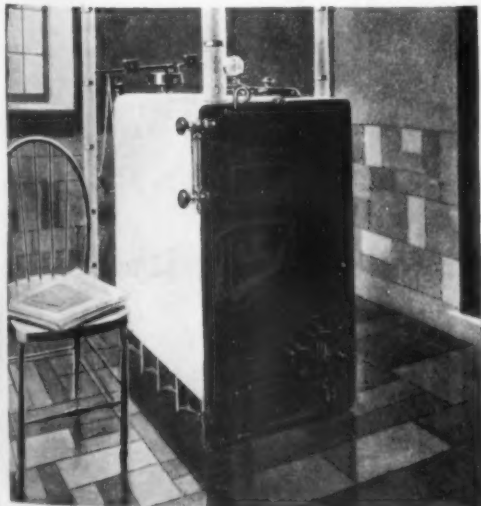
Your flat grates won't burn small size fuels efficiently. The Spencer sloping Gable-Grate will. It

allows fire to burn up-hill, the natural way. The self-feeding feature of the storage magazine keeps the fire bed always uniformly thin. That gives a better, more efficient fire with small size fuels than flat grates can with the large domestic sizes. The simple reason why a Spencer can save as much as half your annual fuel bill is because it burns these small size fuels. For example, No. 1 Buckwheat anthracite costs an average of half the price of egg, stove and nut sizes. Yet you are not restricted to any special fuel. In Spencer Heaters you can burn No. 1 Buckwheat anthracite, coke or graded bituminous coal.

You have thirty-two years of successful use in thousands of installations as the practical experience back of the Spencer Heater of today. Even at first when sales were limited and costs high, property owners demanded the Spencer for its proved savings. As sales grew, costs came down. Today, with tremendous factory facilities and large production, even the Spencer first cost is little higher than that of ordinary heaters.

For any home or building, from bungalow to skyscraper, a cast-iron sectional or steel tubular Spencer will quickly pay for itself in fuel savings. After that it keeps on earning, by saving as much as half your annual fuel bill year after year.

Below is the newest Spencer Heater, designed for even the smallest homes. It is made with the exclusive Gable-Grate and Magazine Feed, like all other Spencers, to give to owners of small homes the comfort of steam, vapor or hot water heat with Spencer low cost.



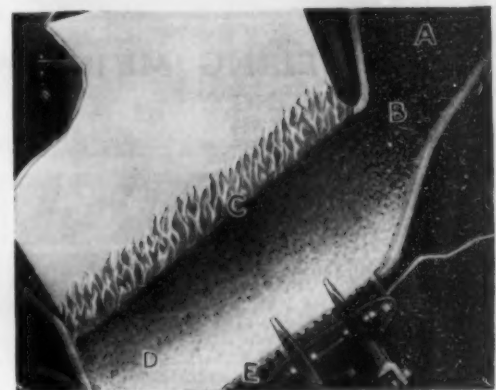
SPENCER HEATER COMPANY

Division of Lycoming Manufacturing Company
Williamsport, Pa.

★ *The Spencer scientific principle*

Once a day, fuel is put into the magazine (A). It fills the sloping grate to the level of the magazine mouth (B). The fire bed always stays at the level shown at (C), for as fast as fuel burns to ash (D), it shrinks and settles on the Gable-Grate (E). As the surface of the fire bed (C) is lowered by this shrinking process, more fuel feeds down of its own weight over the top of the fire bed. Fuel feed is by gravitation

—no mechanical parts, no smothering and deadening of the fire. Uniform depth of fire bed gives maximum efficiency with minimum fuel cost. Spencer Heaters, sold and installed by all good heating contractors, bring modern convenience to the neglected cellar. Write for the Spencer Book, "The Fire That Burns Up-hill." It explains the Spencer scientific principle in detail.



SPENCER HEATERS

steam, vapor or hot water

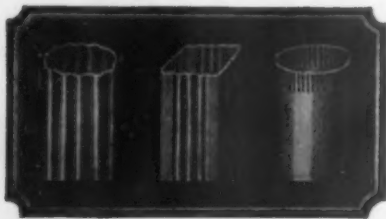


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Give your home permanent protection against decay and costly upkeep with a Leadclad roof. Leadclad is copper bearing steel on which is fused PURE LEAD, the most lasting of metals. Leadclad is strong, light and lasting. It makes a fireproof, lightning proof roof. It is formed in Spanish tile, shingles, flat and corrugated sheets, roll roofing, V crimp, standing seam as well as gutters, conductor pipe and a complete line of roofing accessories. For any style of roofing there is a Leadclad product. When you build your new home or reroof your present one, buy Leadclad—it's a safe investment.

Leadclad copper has a base of pure copper which is jacketed with a coating of PURE LEAD. It is the most lasting roofing material you can buy. Weathers to a beautiful stonelike gray. Impervious to smoky, acid atmosphere. Rustproof.

A few dollars more now will save you many dollars in upkeep costs



It only costs one half of one per cent more to equip your home with Leadclad copper gutters and conductor pipe. For this small amount you get the permanent protection of Leadclad Copper—an insurance against frequent repair bills and rapid deterioration.

WHEELING METAL & MFG. CO.
WHEELING W. VA.

A COMPLETE LINE OF GENUINE LEADCLAD AND APEX GALVANIZED ROOFING MATERIALS

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TILES SHINGLES CORRUGATED V CRIMP ROLL STANDING SEAM CONDUCTORS EAVESTROUGH VALLEYS
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Wheeling Metal & Mfg. Co.,
Dept. D, Wheeling, W. Va.

Gentlemen: Please forward a copy of "Defying Age and Time" and facts about Leadclad. Yours very truly,

Name

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City..... State.....



The sill logs and stone chimney, the beginnings of the construction

How we built our log cabin

Continued from page 187

plastering the entire job. After the sill logs were down we set and braced our door frames (Fig. 3). These and the window frames were made of 2 x 6 lumber to fit double barn-sash windows of 6 lights each. Where logs are plentiful, cabins are quite often built up to the roof before the windows and doors are cut in. But, since logs cost money, we conserved them as much as possible by cutting them so that the windows and doors were left from the very start. We used 40-penny spikes at the corners, and also to spike the log ends to the window and door frames. Wooden pegs were used in the "good old days," but then men had more time and no spikes. We left about an inch space between the logs.

A log cabin always looks better if it is built low and squatty. To get the desired appearance, we built just one log higher than the door. In other words, our cabin opens practically to the roof. Between the last two side logs we laid and spiked 6 inch logs crosswise, about 3 feet apart. These logs act as binders. The special method of binding used around the fireplace and chimney is shown in (Fig. 6). We have boards laid across them in the room we use as a shop, thus obtaining valuable space above

where we can store things. The top logs, as already stated, ran full length, thus spanning all openings. Of course, these top logs too were just butted up against the chimney.

By this time we had found out that logs are not boards. They cannot be cut like lumber, so many of this length and so many of that. Each and every log presents a problem of its own. If a log is crooked it must be cut up to fit in smaller spaces where its crookedness will not be noticed. Others must be turned this way or that way. To get the walls up evenly, the butt ends and the tops must alternate. When building with logs, it is well to remember that a lot of mistakes may be later hidden when the plastering is being done.

For the roof rafters we used poles measuring 5 to 6 inches. These were notched to fit the top log and spiked to it. They also were nailed against a board at the ridge (Fig. 4). The rafters were then covered with inch lumber, and this again with a double thickness of tar paper. At the gable ends we nailed boards, tacked building paper over them, and finished the outside with slab wood with the bark on. The slabs were obtained at a local wood yard and they were bought at cord (continued on page 234)



Notching: see Fig. 2, page 187 and text for details



Leveling the door frames: one step that must be done with utmost care

"...Home, the spot
of earth supremely
blest,

A dearer, sweeter
spot than all the
rest"



THE CASTLE of CONTENTMENT in the PRINCIPALITY of LOVE!

The sweet visions of this happy Wedding Day hold the dearest dream of all...the age-old dream of youth and love!...The Dream of Home!...trusting place of hearts and hopes united... that Castle of Contentment which a man protects...that Principality of Love in which a woman rules...but even married couples must be practical...winter months follow the Wedding March...home must be made secure against the rigors of storm and cold...cheeks that glowed with health in June must not languish for warmth in January...suffering must not dim those eyes that now sparkle with love...give your home, however simple or however fine, the blessings of radiator heating... Marriage is the promise of Perpetual Happiness... American Radiator Heating is a Wedding Gift of Perpetual Summer!

If you will sign your name to this page and send it to the American Radiator Company, 40 West 40th Street, New York, N. Y., we will send you particulars of our convenient plan by which you may have your home heated by an American

Radiator Heating Unit at less than \$75 a room! • You can own the home of your dreams. Consult your local Building and Loan Association; let them show you how. There is no obligation whatever.

NAH-1

My name is _____

Address _____

My Wedding Day is _____

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No More Worry!



Safe behind Page Fence Children-Pets-Gardens-Property

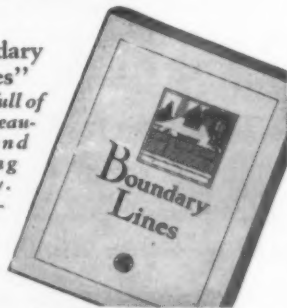
You can have new safety for your possessions with a definite boundary line of sturdy Page Fence, either chain link or wrought iron.

53 Service Plants erect fence everywhere . . . planning, estimating, or final details of erection without obligation. Write for name and address. Page Fence Association, 215 N. Michigan Ave., Chicago, Illinois, Department 15.

Investigate! Page Fabric available in Copperweld non-rusting wire —no painting—reduced upkeep—lifetime service.



"Boundary Lines" is packed full of facts on beautifying and protecting property. Write today for copy.



America's first wire fence —since 1883

PAGE FENCE

CHAIN LINK—GALVANIZED OR COPPERWELD
ORNAMENTAL WROUGHT IRON

How we built our log cabin

Continued from page 250

wood price. Before plastering we scraped the rougher bark off the logs with a hardwood stick.

Our next problem was the plastering and this was not so easily solved. After asking many questions and after numerous visits to dealers of building materials, we finally decided to use regular wood pulp plaster for the inside, and stucco cement for the outside. The plastering materials which we chose were put up in sacks. All we had to do was to mix them with water to the proper consistency.

As was mentioned before, we had left about an inch space between the logs. This we roughly chinked with long strips of wood obtained from what was left from our logs. To keep the chinking in place, we drove nails on each side (Fig. 6). This method worked very well, for it gave a better hold to the plaster than the round logs would have done. We mixed the plaster thin enough so that it could be forced in through the openings and around the nails. After having filled every crack and crevice from both sides, and after having plastered up the opening where the logs butt up against the chimney, we chinked and plastered up the space where the roof and the walls meet. We learned later that cabins in some localities are chinked with moss. This, however, is not a good method, as the job has to be gone over every year because the birds and mice use the moss for their nests.

Our plastering job has stood the test of time. It has not given us any trouble for five years and seems to be good for many more. We found the

plastering to be much more fun than chopping and lifting logs.

Laying the floor was also a problem. This was solved only after a lot of figuring and arguing. We laid a square timber down through the center of the cabin for the joists to rest upon, allowing, of course, for the height of the joists which were 2 x 6 inches.

The square timber was set upon cedar posts, which were placed about 2 feet into the ground. Then we spiked together four sections, as shown in Fig. 5. One end of each of these was spiked against the sill logs, while the other end was placed on the center timber. No doubt better ways of supporting the floor could be figured out, but we have a fine solid floor which answers all purposes. We used matched 3-inch yellow pine for flooring. This was given a coat of stain and was then waxed. We made the stain by mixing 2 quarts of boiled linseed oil, 1 quart of turpentine, and one and one half pints of walnut oil stain. This made a wonderful job.

The doors were made of matched porch flooring, each board having first been chamfered. We wanted to use planks at first, but were afraid that the doors would become too heavy.

Our cabin is divided into two rooms, the room with the fireplace being the living room, and the other being our artcraft shop.

Furnishing a cabin is lots more fun than building one, although I must say that I was not bothered with indigestion the year we built our cabin, and I enjoyed every minute of the time I put in on the job.

If you live beyond the gas main

Continued from page 218

no outside facilities, such as gas, electricity or water supply, are necessary.

A fuel that is easy to carry about and that can, in fact, be carried in one's bag when traveling, comes from Switzerland. It is a solid white fuel, that comes in small sticks or tablets. It is safe to handle, for (it is claimed) it cannot be made to explode. The flame produced by this fuel is intensely hot.

Several utensils are offered for use with this fuel, among them being a folding, 4-footed stand which serves as a hot plate for heating liquids and foods. It is made to hold a small saucepan. There is a small flatiron with detachable handle, (a very useful traveling companion) also a cup for heating water, a special cooker for eggs and tea, a baby bottle warmer, also a candle for sealing, fine soldering work, etc. The fuel is sold in packets of fifty tablets.

This solid fuel is ideal for use while traveling, especially in motor travel, as a cup of tea can be made easily in some lovely woodland spot along the way, or baby's bottle can be warmed, always a problem when away from home and city conveniences. It is also of great service in summer shacks, where no other source of heat is available.

Then there are the kerosene, gasoline, and alcohol stoves, in small size, for convenient transportation to the summer camp. One of these little stoves is so designed that it will do what often requires a two-burner stove. For instance, the top of the stove provides a warming shelf and the oven provides a hot surface that will operate a percolator while baking or toasting is being done inside the oven. It can also be used as a portable heater, to provide comfortable warmth on those chilly evenings at the seashore or mountains.





Mansion House at Mount Vernon. All buildings on George Washington's estate are painted with Outside Barreled Sunlight.

Beautiful "Mount Vernon" made still more beautiful . . .

VIEWED as a national shrine, the home of George Washington inspires deep reverence.

Regarded simply as a distinguished country estate, *Mount Vernon* delights the eye with the dignified beauty of its buildings, the serenity of its natural setting.

Today the proud task of perpetuating this national monument—the high privilege of maintaining and enhancing its classic charm—is shared by a distinctive painting finish, Outside Barreled Sunlight. Garbed now in this whitest of all whites—glowing with a lustre unmatched for soft richness—*Mount Vernon* fairly sings out with new beauty.

In the past twelve months, homes of distinction the country over have been painted with the new Outside Barreled Sunlight. Their owners are delighted—

painters enthusiastic—neighbors admiring and frankly curious. All declare that Outside Barreled Sunlight is whiter than any paint in their experience.

It is the crowning achievement of twenty years' specialization on white paint exclusively. The gratifying result of our fixed determination to produce the very finest exterior white paint that we could make.

Outside Barreled Sunlight costs a few cents more per gallon, but in addition to greater beauty it has extreme durability. So even-wearing, it is in good condition when repainting becomes desirable.

Mail the coupon for free booklet, "The Whitest White House in Town."

U. S. Gutta Percha Paint Co., 7-B Dudley Street, Providence, R. I. Branches: New York—Chicago—San Francisco. Retail dealers everywhere.

The twin products for cleaner, more beautiful homes—inside and out

Outside Barreled Sunlight is made by an adaptation of the exclusive Rice Process which perfected Interior Barreled Sunlight, the satin-smooth, dirt-resisting paint enamel used on walls and woodwork in thousands of fine homes. The new product is in every way a worthy companion of the old.

Both forms of Barreled Sunlight are sold in cans of all sizes, 5-gallon buckets, and large drums. Extremely easy to tint with oil colors. Quantities of 5 gallons or over tinted to order at the factory without extra charge.



OUTSIDE Barreled Sunlight

Reg. U. S. Pat. Off.

U. S. GUTTA PERCHA PAINT CO.
7-B Dudley Street, Providence, R. I.

Gentlemen:

Please send me a free copy of your booklet "The Whitest White House in Town."

Name.....

Street.....

City..... State.....

Send free can of Outside Barreled Sunlight to my painter. His name and address are given in margin below.

"About FUEL - you will agree



says The Electric Furnace-Man

AFTER ALL, it's the fuel that's the most important. Investigate! Make certain that you install no automatic home-heating system until you are convinced that the fuel it uses is absolutely safe.

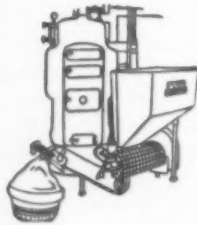
About ANTHRACITE you don't need to have the slightest concern. Everybody knows it is safe. But we do ask you to thoroughly investigate MODERN AUTOMATIC ANTHRACITE which is completely solving the heating problem of the home owner.

Here is a scientific development that is worthy of your fullest confidence. Time-tested—no uncertainty about it. Its EFFICIENCY and RELIABILITY—proved beyond all doubt by thousands of installation records—will give you a new conception of heating comfort.

AUTOMATIC ANTHRACITE is not the name of a product merely. It is more than this. It stands for a principle—a modern heating SERVICE above reproach and beyond comparison. It is not only the latest, but the ultimate, method for providing uniform heat with efficiency, cleanliness and safety.

For every system—warm air, steam, vapor and hot water

The name of the device which makes ANTHRACITE the MODERN AUTOMATIC FUEL, is the ELECTRIC FURNACE-MAN. It burns Buckwheat or Rice sizes—feeds it as required to the firepot—consumes the distilled gases as the coal is forced UPWARD—converts all the fuel into useful UNIFORM HEAT—and, finally, removes the ash into a dust-tight container outside the furnace. There is no waste—no smoke, smudge or odor. It is clean, simple in operation, and dependable. Can be installed in a few hours. Begin now to enjoy this modern heating comfort while there is still need to keep your furnace going.



Deferred payments if you prefer.

Patented Product of
DOMESTIC STOKER COMPANY
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SEE demonstration in our show room. Fill in and mail coupon for unusually interesting book.

(Mail coupon to above address)
Please send me the attractive, illustrated book describing the ELECTRIC FURNACE-MAN—the Modern Automatic Home-Heating System.

Name.....
Address.....

Camping equipment for your vacation

Continued from page 195

The forest cruiser would be wise to supply himself with a supply of dehydrated vegetables, dried fruits, beef cubes, malted milk tablets, powdered milk, powdered coffee, and tabloid tea before he ventures into the wilderness, for nourishing and appetizing food is a necessity if his tramping is to be a pleasure and not a punishment. Yet nobody wants to walk with a heavy load of groceries slung on his shoulders. Too many nomad campers carry along bacon, which is quite heavy, and canned foods. The dehydrated vegetables are quite as palatable and wholesome as canned ones, yet they weigh almost nothing; the camper must soak them well before cooking; powdered coffee and tabloid tea are much lighter to carry than regular tea and coffee, yet they yield beverages every bit as stimulating and appetizing.

The automobile camper has an easier time all around, and can take along more comforts, even some amusements, for there are several kinds of compact portable radios, phonographs, and games.

In the first place, if he means to avoid the regular camps where motorists of many types gather, and strike his own private camp at a spot that suits his fancy, he can carry along a much more comfortable and roomy tent for his stops. He can have for each member of the party one of the biggest and most luxurious of sleeping bags or some air mattresses and cushions. And he can even splurge a little with folding chairs or stools, a folding table, a folding cot for anybody who objects to sleeping on the hard ground, and ever so many little devices for cooking, washing, and living. Equipped with an auto tent, cooking outfit, bedding and food, the motor rambler is not dependent upon even the occasional village store or farmhouse for his accommodations, provided that he can find clear water and an occasional gas station.

A marquee tent is best suited to the uses of the auto camper, as its "front porch," when tied to the automobile top, makes an adequate dining room for a small motor party.

There are many folding canvas cots on the market and at least one type that has a good wire spring and four-inch cotton mattress, which yet folds up into a package easily accommodated on a running board.

The traveling auto camper rarely bothers with tables and chairs, yet he might if he knew that there are

now to be had several varieties of table that fold up compactly for carrying. One is bridge-table size, that folds up its legs and is hinged in the middle, so that it folds together like a book and looks like a suit-case. Inside, besides its own legs, it carries four neat and sturdy little folding chairs excellent for the picnic, too. A second type of folding table is composed of narrow strips of wood covered with leather or canvas; the legs fold under, the top rolls up as flexibly as a rug, and the whole table fits into a neat carrying case not so big or heavy as a golf bag. Folding chairs are also offered in great variety for the camper's use, from mere camp stools to quite sturdy and comfortable arm chairs. Why sit on the hard ground when two or three pounds of folding chair easily carried on the running board will make you so very comfortable when you make camp?

So much for shelter and sleeping arrangements. The culinary department of the camp is equally important, and here just as many compact conveniences are offered. The real woodsman may pride himself on getting all his meals over an open fire built in a nest of stones, but if there is a woman in the auto-camping party she will undoubtedly demand a stove of some sort, and she has a great variety from which to choose. The simplest kind is a folding grate to place over the wood fire, suitable for boiling and broiling. Slightly more elaborate is the Adirondack grate, which also folds, but has a back and end pieces to hold the heat in, an advantage on windy days. Canned heat is another method of getting the camp meal quickly, and the canned heat cooking kits are quite complete and adequate for a small party's cooking needs; little sauce pans, kettles and coffee pots to fit the tiny burners are offered.

A slightly more elaborate type of stove is a folding gasoline stove, which comes in several sizes. This stove is light, takes up small space in traveling, and will enable you to cook six or seven meals on a quart of gasoline. It may seem more civilized than a wood fire, but when you're tired and hungry you may find a quickly prepared meal more thrilling than picking up fuel to build a fire. The motor camper may also consider several types of wood-burning stoves that fold up compactly, though these are perhaps most appropriate for the permanent camp. (continued on page 238)

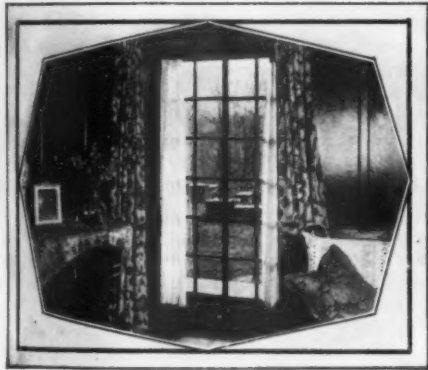


Paper tablecloth, plates, and napkins—even spoons and forks—to make housekeeping easy

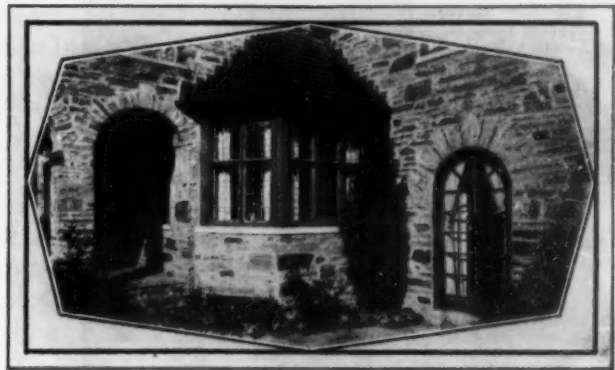
LUPTON CASEMENT WINDOWS



Soft fabrics and soft sunlight lend quiet charm to this Chippendale dining-room. Lupton Casements bear out the restrained character of the room.



Left. Special Lupton steel French doors, in this oak-pannelled library, add to the rich solid effect.



Right. An attractive corner of a modern residence. Leaded glass is used in the Lupton Residence Casements of steel.

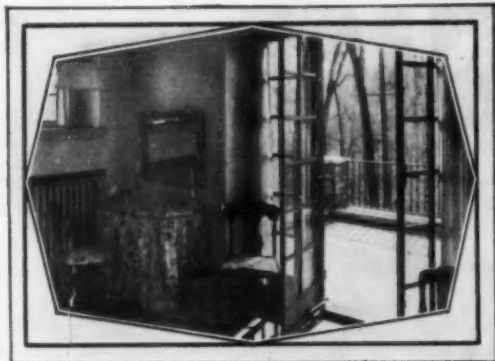
WITH WINDOWS STRETCHED WIDE TO DRINK IN THE SPRING DAYS

This year, thousands of new home-owners who have built during the fall and winter are enjoying the spring charm and the conveniences of steel casements for the first time. By May, the whistling winds and the swift showers have gone. New leaves whisper on branches. Even the houses stir to new life. From their snug walls, casement windows open like hungry little mouths to drink in the fragrant airs of spring.

These modern windows are most adaptable to the changing seasons. During the warm-weather days, they collect the elusive breezes, and send them scampering through the house. Against the assaults of an impetuous summer storm, they remain water-tight. They are equally effective against the penetrating cold and damp of winter.

In the Lupton Residence Casement, the

steel window finds its highest development. Both in their design and in their improvements, Lupton Casements are the product of 58 years of leadership in the steel window business. Slender steel lines divide the panes of glass, and give an effect of exquisite dainti-



ness. Yet frames are solidly welded, and as strong as only steel can be. The new Lupton friction-hinge makes operation smooth and soundless. Lupton Casements will not warp, stick, or chatter in a high wind. They can be cleaned on both sides from within the room.

By the manufacture of a variety of standardized sizes, Lupton has been able to bring the price of the steel window within reach of even the small home. We have published an interesting booklet, "Better Windows for Your Home," which is packed with practical suggestions on designing and decorating the window in the modern home. May we send you a free copy? DAVID LUPTON'S SONS CO., 2267 E. Allegheny Avenue, Philadelphia, Pa.

Lupton steel casement doors bring light and comfort to this dainty boudoir.

MY HUSBAND INSISTS THAT I OWN A WALKER ELECTRIC DISHWASHER



WHILE helping do the dishes last night, he said: "We ought to have a WALKER Electric Dishwasher. You remember that Sunday night party at Edith's. No maid and all those dishes. Think of the time she and Joe had in the kitchen late that night."

I told him I would rather have that money for something else, but he said: "Nonsense—it costs less than many other things we buy and we can buy it on installments, the same as we pay for the refrigerator."

That settled it. We are going to have a WALKER repre-

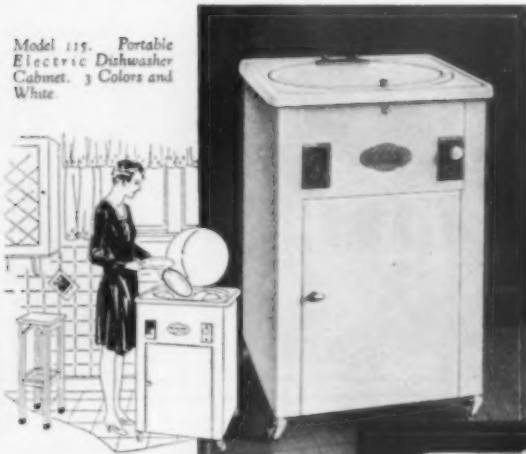
sentative help us choose a model for our kitchen.

Thousands of women today are becoming acquainted with the WALKER Electric Dishwasher in the up-to-date apartment buildings in our larger cities as well as in the newer homes sold by the leading real estate operating builders. In fact, homes and apartments built today to rent are equipped with the WALKER because in two or three years' time, they will be hard to rent without it.

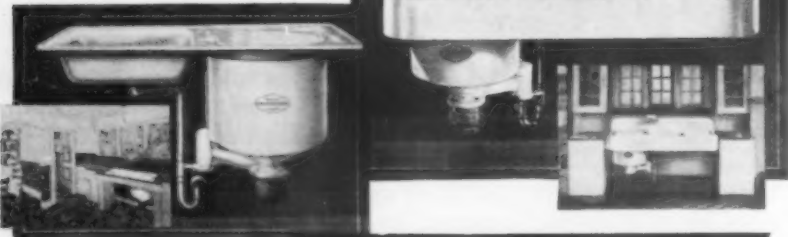
Individual home owners recognize that they owe their servants this greatest of all electrical helps.

DO NOT PUT OFF ADDING THIS NEW INFLUENCE FOR MODERN LIVING. LET US NAME DEALER FOR DEMONSTRATION AND EASY TERM PAYMENTS

Model 115. Portable Electric Dishwasher Cabinet. 3 Colors and White.



Model No. 112. At right. Walker Sink for larger residences.



Model No. 108. Flat rim type to tile or build in.

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WALKER DISHWASHER CORP.
Dept. 1703, Syracuse, N. Y.

WALKER
ELECTRIC
DISHWASHERS
Sink and Cabinet models

Send booklet, "The Dawn of a New Day in Your Kitchen". and special information about Electric Dishwasher Sink Electric Dishwasher Cabinet Send instruction sheet for kitchen floor plans I would like a demonstration.

Name

Address

(Names of your architect, electrical dealer and plumber appreciated)

Camping equipment for your vacation

Continued from page 236

Cooking utensils that come in sets or kits, and nest together very compactly are far better than pots and pans, skillets and coffee pots bought at random and then found not to pack well together. One such kit, for instance, of heavy, excellent quality aluminum, contains plates and cups for four persons, an omelet pan, a deep frying pan, 3 deep sauce pans, one coffee pot and a lifter-handle, all fitted together into a good aluminum pail which could serve as water carrier or dish pan; the price of this is \$8.44 in one New York store, and it would probably sell for under \$10 anywhere in the United States. Some other kits contain knives, forks and spoons. The motor camper would do well, however, to consider using paper cups, plates, spoons and forks, as well as paper towels and napkins, to eliminate work after each meal. Who likes to wash dishes?

The permanent camp, if quite primitive, may be equipped with the same simple and compactly folding articles already described, though camp life is simplified for the cook if the equipment is somewhat elaborated. It's really *not* easy to prepare a meal for several ravenous persons over one or two tiny burners or a too-small grate, and since campers always seem to be ravenous, our advice to the general manager of a permanent camp, even though it's no more permanent than one summer, is to have plenty of cooking utensils, at least four good burners, an oven of some sort, and some real dishes, knives, and forks. One or two good gasoline or oil stoves set at a comfortable height from the ground or floor should be considered a necessity in the permanent camp; it's rather fun to cook on the ground over a camp fire or Adirondack grate for a few meals, but not for a steady routine. There is also on the market an excellent hot-water heater of the oil stove variety, and if you own your camp and go there year after year, this luxury should be considered, for even though all baths are taken in river or lake near-by, there are clothes and dishes to be washed and hot water is a comfort. In cold mountain camps, moreover, where even summer nights are chilly, a good hot foot bath before bed enables many a tenderfoot to get to sleep comfortably and quickly, whereas he might shiver for hours if

he went to bed with cold feet—and that is *not* a vacation!

Small refrigerators for camp use are inexpensive, and anything from the nursery ice-box to a refrigerator basket will solve this problem for you provided you can secure ice. If you are too far from civilization to get ice, then the chances are you are using canned or powdered milk, which won't sour, and your butter you can keep firm by improvising a cooler in a near-by stream, in glass jars immersed in the water. We used an orange crate in a Rocky Mountain stream one summer, weighted with a few big stones so it wouldn't wash away, and the butter and fresh milk kept beautifully cool in that icy water.

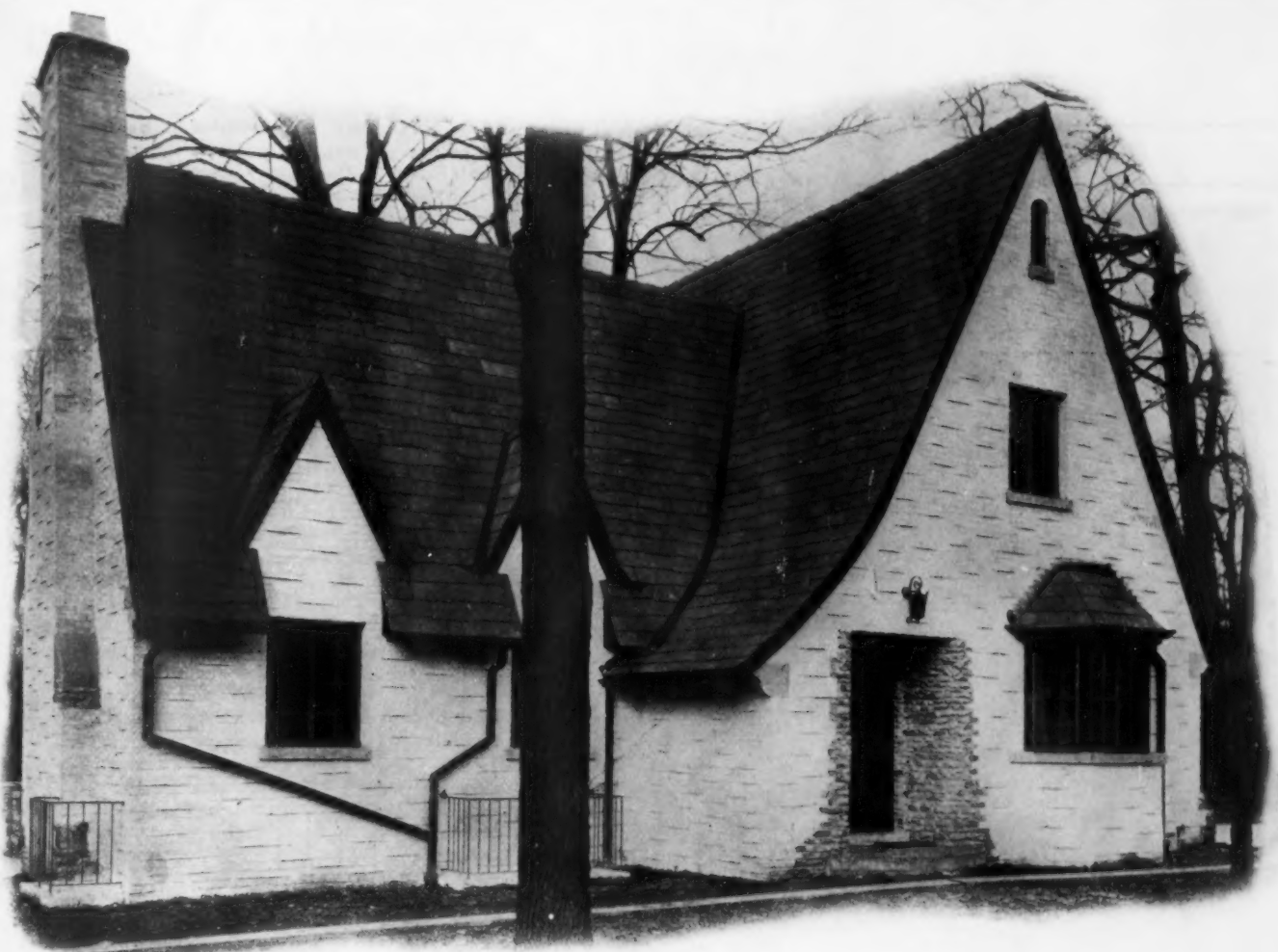
Don't take open candles to camp if there are children. You can get folding metal cases with mica sides to hold your candles; these folding candles, as they are called, have been adopted by the U. S. Army and cost \$3 each. A good safe lantern or electric flash for each tent or room of the cabin should be included in the camp equipment. Other folding accessories to make the camp tidy and comfortable are folding shelves, hanging toilet cases, and best of all, folding buckets, wash basins, and bath tubs of rubberized duck. Stout khaki wall pockets to hold books, toilet articles, and small personal things are almost a necessity. Each person should have his own wall pockets if the camp is a tent; cabins afford a delightful lot of narrow shelf space on the framework of the structure.

Laundry often causes most dismay in the heart of a neat housekeeper when she faces camp life for the first time. The laundry question, however, need not wreck a perfectly lovely vacation, and yet the children may be kept as clean as clean! A folding rubber tub will do; a galvanized iron tub (which you can pack full of things and ship to camp from town) will be better; a pair of set tubs will be best, even though you have no hot water supply and must fill them by hand from spring or pump and tea-kettle. As for ironing—well, why iron in camp? If everything is hung as spread-out as possible on the clothesline, so that the breezes will blow through, there won't be any more wrinkles in your middies and the baby's rompers than are rather becoming!



Whet home to sell circur
What only a terial good
Then, home econo of AN

Name
As



A Safe, Attractive Roof Adds Value To Your Home

Whether you're planning to build or modernize your home, there's always the possibility that you may want to sell it in the future. You may want a larger house, or circumstances may force you to put it on the market.

Whatever the reason, you need a *salable* house—and only a house built of the best and most enduring materials—particularly the roof—can be sure to bring a good price in after years.

Then, too, during the years you hope to enjoy that home, you need the greatest protection, beauty and economy possible. You get all these qualities in a roof of AMBLER ASBESTOS SHINGLES.

Put them on your roof when you build and they will serve you well as long as the house stands. They are safe, for asbestos cannot burn; they will endure, for their base is cement, which hardens with the years; they are attractive, either in color blends chosen from the many hues available, or in solid colors. Any combination may be chosen to suit your taste.

If your home is protected with AMBLER ASBESTOS SHINGLES it will never need another roof. Neither will you have to worry about repairs or paint on this material. Isn't that argument enough to convince you that here is the ideal roof?

Tear off the bottom of this page and send to us to obtain an attractive leaflet describing three types and seven colors of

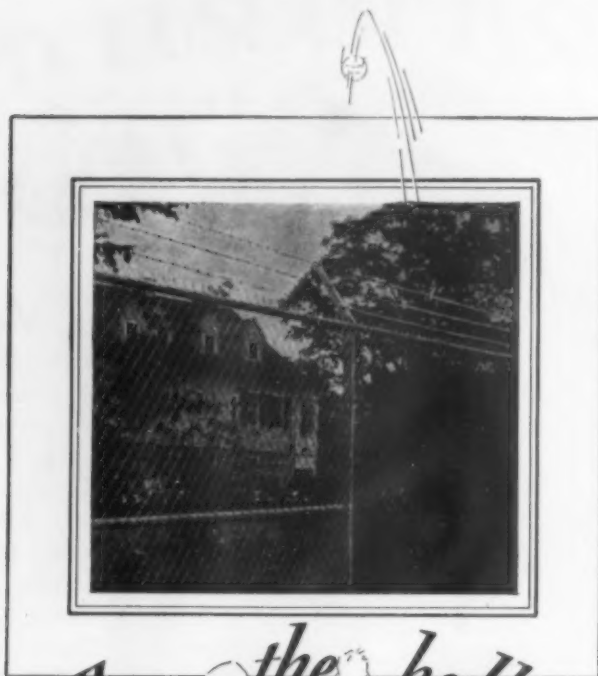
AMBLER ASBESTOS SHINGLES

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ASBESTOS SHINGLE, SLATE & SHEATHING COMPANY-AMBLER, PENNA.



When the ball goes over the fence

WITH a Wickwire Spencer Chain Link Fence protecting your grounds, a gentlemanly request for lost baseballs is tendered via the gate. Your property is no longer a pre-empted ball park; your flowers and shrubs may grow untrampled.

Wickwire Spencer Fences are sold either as material to be erected by your men or as completely erected fences set by our own experienced workmen. These fences while inexpensive are sightly, strong and permanent.

We have a representative near you. Write the home office for details.

WICKWIRE SPENCER STEEL COMPANY

37 East 42nd Street, New York City



WICKWIRE SPENCER
Chain Link Fence

Worcester
Buffalo
Cleveland

Chicago
Atlanta
San Francisco

Los Angeles
Seattle
Portland

Serving breakfast without a maid

Continued from page 195

appetizing odor to accompany it. The dishes are of Quimper ware, an inexpensive pottery from Brittany, its crude colors, stiff designs, and funny little figures forming an amusing note in the general harmony.

The water glasses are of green glass, and quite heavy. The handles of knives and forks are of black rubber with white "pearl" insets, very attractive. The blades and prongs are of stainless steel.

The centerpiece for any breakfast table should be simple, cheerful, and pleasing or amusing. It may be of flowers or fruit, or just a bit of colored glass, pottery, or china in the form of bird, beast, or fowl, but whatever it is let it be gay. We do so need gayety in the morning! The one shown here is an amber flower holder, barrel shape, with Zinnias of every hue.

In setting the breakfast table the rules are simple and the same that are used for any occasion. A "cover" is the expression used to designate the place and its appointments for one person. These covers should be so arranged that they are evenly balanced around the table if possible.

In the center of each cover is the service plate. At the right is the knife and the fruit spoon. At the left are the fork and napkin. The water glass is placed at the tip of the knife, and the bread and butter plate at the tip of the fork. The bread and butter spreader is laid on the plate in a horizontal position.

The napkin is folded so that the corner comes toward the plate, and laid next the fork. If there is no first course on the service plate the napkin may be laid on it if desired. When, however, the service plate has a pretty design in the middle, as these have, it seems a pity to cover it up.

Butter may be placed on the bread and butter plates, in cubes or balls, before the meal is served, or passed after the fruit is eaten. With waffles it is best to have a serving dish of butter also on the table or on a serving table near at hand.

Water (cooled) is poured just before the meal is served. A pitcher of water for replenishing should be on the serving table as well. A serving table, or a tea wagon, is a necessity in serving meals without a maid. With one almost any kind of meal may be served

without host or hostess once getting up from the table.

When the fruit course is finished at breakfast the bowls and their saucers are removed from the table to serving table or tea wagon. They may be passed from one person to another or, where there are children, they may be taught to serve.

Now there is a service plate before each person, and there should be a pile of warmed plates on the serving table or wagon at the hand of the one who is to make and serve the next course.

The hostess (supposing the hostess is going to perform this pleasant task) takes a warmed plate from the pile and places it before her, removing the service plate to the wagon or serving table. When one waffle is done, she will lift it onto the plate ready for it (the square one in the picture) and pour more batter on the griddle. She will then divide the waffle into quarters, and place one quarter on the warmed plate before her, with a sausage or two, and pass it to her neighbor. The service plate which is exchanged for this will be placed with the first and the service continue. Plates may be sent back to the hostess for replenishing.

The coffee service, sugar and creamer, cups and saucers, are placed, when the table is laid, at the right of the one who is to pour. Spoons are laid in the saucers, *not on the cloth*. The pot or percolator is brought on when the family sits down.

The coffee is preferably "trimmed" as it is poured, cream and sugar in the cup, before the coffee is poured, and each to individual liking. It is then passed from hand to hand.

Having service plates is a pleasant little form that adds a note of formality and correctness to any table. A "cover" empty of plate, and bounded only by cutlery gives an unfinished look to the table. The service plates need not necessarily be like the set of dishes used. Any fancy or pretty plates will do.

Passing plates or cups down the table, or back to host or hostess for replenishment is not a formal way of serving a meal but it is a perfectly correct way, and is infinitely better than to have the hostess jumping up and down to her own unrest and the embarrassment of her guests.

Making the most of your dining room

Continued from page 180

every detail. The Victorian age must have produced a stronger nervous system than ours.

Of course, if the dining room is waiting to be furnished and one must be practical, there are other things to think of before the flowers and the pewter. A table and six chairs and a buffet do not make a dining room, but one must certainly have them among other things. Moreover, the style of the furniture must decide many details of the decoration. With the present vogue for English and Colonial architecture there is a demand for our early American furniture which now is reproduced for us with faithfulness of materials, design and craftsman-

ship. One scarcely hopes to explore the back country and "pick up" for a few dollars the delightful old gateleg and butterfly tables, the ladder-back and Windsor chairs, the highboys, chests and cupboards which gave charm to the early homes. But just because of this, it seems, manufacturers have turned their attention to reproducing them with all the substantial beauty of the originals.

The same is true of French Provincial furniture, which has much of the character of our own old designs and fits harmoniously into the same rooms. Beautiful copies and reproductions may (continued on page 244)

“Comfort costs less with a *Newport!* Our Architect was right”

“WHEN we began to build our home,” said the vivacious young matron, “Fred thought the Architect’s fee a needless burden. But now he swears by our Architect because, among many other things, he specified our Newport Boiler. It keeps the house cozy all winter without much care and Fred delights in telling our neighbors that he pays \$6.00 less per ton for the fuel we use.”

Architects, veteran heating contractors, and thousands of home-owners recommend the Newport, the residence heater which in the past 15 years has become the accepted standard for the most modern, easiest and cheapest way of heating.

The Newport gives you better-than-ordinary service because of its better-than-ordinary design. Its magazine feed ensures healthful, even heating with negligible boiler attendance. In average winter weather you need fill the magazine but two or three times a week. {See diagram at right.}

Even more vital to the family man with many financial obligations is Newport *economy*. Utilizing No. 1 Buckwheat and adaptable to several other cheap fuels, a Newport will positively reduce the annual fuel bill 30 to 50%. The Newport truly gives you real comfort at lowest cost!

When you come to equipping the new home you’re building or making improvements in your old house, be absolutely sure you have all the available heating facts before you buy a heater. Recognized authorities advise you to select a Newport. Send for our latest booklet, {Coupon at right for your convenience}, and judge for yourself.

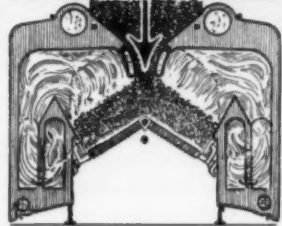
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MAGAZINE FEED



THIS diagram shows the unique magazine-feed principle of the Newport Boiler. You fill the magazine never more than once a day . . . usually two or three times a week, as the weather requires. As the fuel burns away at the bottom gravity feeds more coal from above. An even fire-bed is maintained.

Successful heating for 15 years. Thousands of satisfactory installations have proven the soundness of Newport-magazine-feed-heating.

A size for every need, Bungalows, Homes, Apartments and other buildings. Steam, Vapor or Hot Water systems.

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Please send me the facts “How My Family Fuel Budget Can Be Reduced 30 to 50%.”

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The
KELSEY
for Health

A Heater in Winter A Cool Air System in Summer

Do not order any heating equipment until you have investigated the Kelsey Warm Air Generator. It is the heaviest and, we believe, the most efficient and economical heater on the market.

Its heat is comfortable and healthful because it delivers such a volume of warm (not hot) air into every room and keeps it constantly circulating. The air is never dry because the automatic humidifier adds exactly the right amount of moisture to prevent irritation of the throat and nostrils.

But did you know that the same device which keeps you warm in winter will also keep you cool in summer, without any additional equipment whatever? You simply set the thermostat and out of every register comes a current of fresh, clean, cool air which effectually banishes forever the dreaded stifling days and nights of unpleasant memory.

For solid comfort all the year round you need a Kelsey.

Our booklet "Kelsey Health Heat" will tell you all about it.

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Sales Offices
BOSTON—60 Sudbury Street
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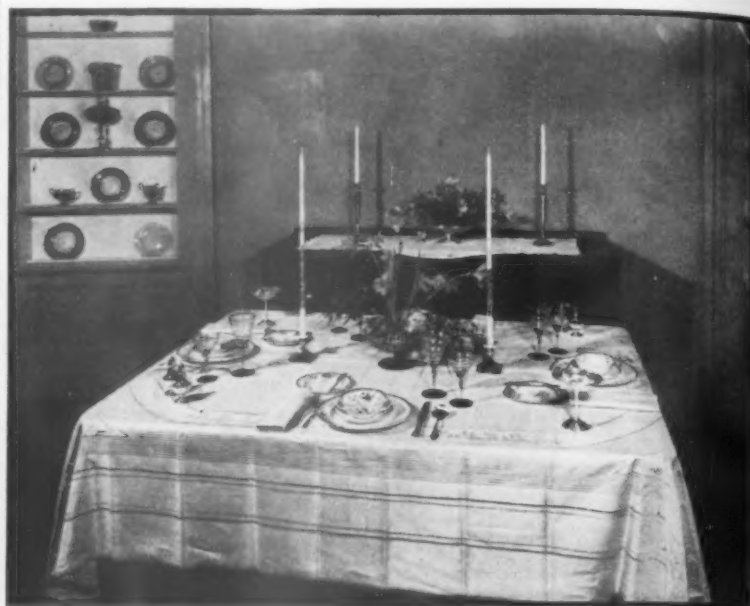
Brockville, CANADA
Dealers—Principal Cities

Fill in and Mail this Coupon Now

Kelsey Heating Company
238 James Street, Syracuse, N. Y.

Without obligation, please send me your Free Booklet on Kelsey Health Heat. I have a room house

Name
Street
City State



The charming flower arrangements are the distinctive points of this well set table and buffet. (Courtesy James McCreery & Co.)

Making the most of your dining room

Continued from page 240

also be found to-day, of those exquisite styles created by the famous English cabinet-makers of the 18th Century.

If the sum allowed for dining room furniture is under five hundred dollars, it will pay to look at some of the modern maple pieces, for there is no more warm and cheerful wood tone than this and the simple forms and solid construction of Colonial times are being repeated. One shop shows a set of table, side chairs, serving table and a spacious chest of drawers which would be charming for small dining room or dining alcove, in finely finished maple, all for \$400. The same things in mahogany are considerably more expensive, although mahogany-stained pine is sometimes made in good designs. A very lovely little table (and a butterfly table at that) may be had in maple for about \$28 while pleasing copies of old tables in walnut cost but a little more.

If the home owner happens to be a craftsman, and knows how to handle his paints, he will surely be interested in the unpainted furniture which is made to-day, with the controlled lines and careful construction of many finely finished pieces.

When the furniture has been selected, it is then easy to decide about the walls. For a number of years it seemed that plain plaster was the accepted background for everything. It is no wonder that the public finally rebelled against the papers offered them a couple of decades ago. For years those appalling, turbulent walls got by somehow, as one of the inescapable facts of life. Then someone discovered that plaster was more pleasant to look at. Plain plaster walls to-day are made with a number of interesting surface textures and subtle tints but the fad for them has given way to some extent with the advent of beautiful and inexpensive wallpapers.

A manufacturer claimed recently that he had lovely flowered papers for only 12 cents a roll, could paper a room for a dollar! Investigation showed that this was indeed a fact. The 12 cent papers were in pleasing pattern, quite different from those at

the same price—years ago, when brilliance and fussiness were supposed to make up for whatever else might be lacking in design. For slightly more money one finds other delicate floral papers, with old tapestry papers copied to sell at 45 cents per roll and reproductions of the Toile de Jouy prints at 60 cents a roll. Imported papers are priced from \$1 a roll (\$4 if they are hand-blocked) to almost any price one cares to pay, some of the old ones as fine as rare old woven fabrics and treasured accordingly. But a suggestion of their beauty has appeared even in the least costly of the modern product.

Scenic panel papers with their pleasant effects have found a way into the average homes of to-day for some of the modern reproductions and original designs are very reasonably priced. Among the modern designs, one of the most interesting is a colorful underseas impression by Hoffman. This type of wall decoration is especially adapted to the dining room, for a well chosen landscape will do much to increase the apparent size of a small room, or a bird and flower motif will bring in that out-of-door atmosphere.

The subject of dining room floors is one on which several pages might easily be written. Composition floorings have been developed to a point where they offer an attractive alternative to hard woods in many styles of rooms. Linoleums, cork composition and rubber tiles, are made in beautiful designs, plain colors and marbled effects, some of them scarcely distinguishable from tile or marble, all most pleasant under foot. Floors of this type are particularly practical in the dining room, for they may be used without rugs to solve problems both of expense and sanitation.

Remember the new lighting fixtures that for a small sum can transform this room. Try the effect of a corner cupboard filled with colorful glassware, china or pewter. An old platter over the side table, or a mirror can change the tone of a whole room as can also a few pots of trailing ivy beside the windows.

"To keep fit - reach for a Lucky."

Hamilton Fish Jr.

HAMILTON FISH, JR.
National Legislator and Public Official

"From actual experience with American Veterans in the Expeditionary Force, I found that cigarette smoking quieted the nerves and that Lucky Strikes were as necessary as food for the soldiers in the battle zone. Physical fitness is as essential in public life and business as it is in football or in the Army. To keep fit, reach for a Lucky instead of a sweet."

HAMILTON FISH, JR.

THE modern common sense way—reach for a Lucky instead of a fattening sweet. Everyone is doing it—men keep healthy and fit, women retain a trim figure. Lucky Strike, the finest tobaccos, skilfully blended, then toasted to develop a flavor which is a delightful alternative for that craving for fattening sweets.

Toasting frees Lucky Strike from impurities. 20,679 physicians recognize this when they say Luckies are less irritating than other cigarettes. That's why folks say: "It's good to smoke Luckies."

Note: Authorities attribute the enormous increase in Cigarette smoking to the improvement in the process of Cigarette manufacture by the application of heat. It is true that during 1928, Lucky Strike Cigarettes showed a greater increase than all other Cigarettes combined. This confirms in no uncertain terms the public's confidence in the superiority of Lucky Strike.

"It's toasted"

No Throat Irritation - No Cough.

Coast to coast radio hook-up every Saturday night through the National Broadcasting Company's network. The Lucky Strike Dance Orchestra in "The Tunes that made Broadway, Broadway."

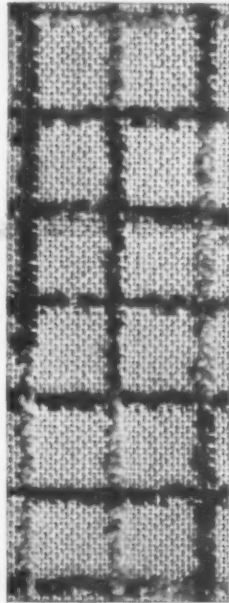
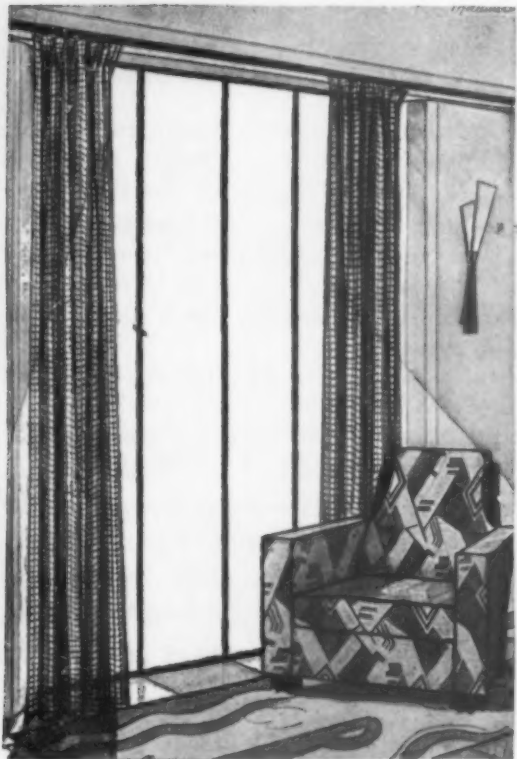


Hamilton Fish, Jr.
National Legislator and Public Official



Reach for a Lucky instead of a sweet.

The Colors of
Carnival Days in Romantic
Sardinia
are guaranteed fast in this new
Orinoka
Draperery Fabric
of Variegated Chenille



GUARANTEE: These goods are guaranteed absolutely fadeless. If color changes from exposure to sunlight or from washing, the merchant is hereby authorized to replace with new goods or refund the purchase price.

PERHAPS you have heard them, the tales of ancient Sardinia . . . sparkling with the audacity of her brigands . . . glowing with the brilliance of her religious festivals . . . all tinged with a gorgeousness of color—the rich, vibrant color that is her true personality . . . they have been famous for centuries.

Today these same captivating colors are found in the newest Orinoka draperery fabric—"Carnival Chenille." It makes draperies that are gay with the radiance of Italian sunshine. Upon a linen-colored ground, chenille threads in perfect Sardinian colors are woven into a smart, square design.

This fabric is especially effective in a sun-room, for light brings out the splendor of it. And then, because it is sun and tubfast, neither the brightest sun nor washing will fade it. The colors are so nicely varied and the design so simple, that they blend perfectly with other furnishings. The texture is fine and sturdy.

Ask to see Orinoka Guaranteed Sunfast Carnival Chenille, No. 2886. If you will mail the coupon below, we shall be pleased to send you a copy of the Orinoka booklet. It is full of practical suggestions for draping windows, and illustrates room interiors and new fabrics in full color. It is free.

THE ORINOKA MILLS, 215 Fourth Avenue, New York

Please send me, without charge, the new 24-page Orinoka booklet, "Color, the Secret of Beautiful Homes."

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Orinoka

How we built our house

Part 3—making the plans

As told to ROGER B. WHITMAN

SEVERAL things were settled before we turned to the plans.

We needed three bedrooms and a maid's room; we wanted an entrance hall and good hall space upstairs, big closets, a pantry, and with the view where it was, the living room, the sun porch and the main bedroom should face it. We were not able to draw plans that would show the exact location of everything, and if we had tried we would probably have left out the stairs or made some other bad break. As it was, I made a rough sketch and the contractor worked out the details. We talked things over with him, of course, and in the end he gave us exactly what we wanted.

In style the house was English, with tan stucco walls, an unevenly laid slate roof, and very little exterior woodwork, stained dark. In shape it was square; somewhere or other I had heard that that shape was the cheapest to build, and while an oblong or a rambling house might possibly be better looking, we were so short on cash that we could not go the higher cost.

The front entrance led into a vestibule and that into the stair hall, which had a door to the kitchen and an arch to the living room. That room was 13' 6" by 18' with a stone fireplace in the center of one side and a group of casement windows 8' wide in the end overlooking the valley. The corner of the first floor was a sun porch 10' square, with a casement into the living room and double French doors opening from the dining room.

The pantry was across the end of the dining room; it was 4½' wide, with a broom closet at one end and the rest mostly china closets. The kitchen took up the rest of the first floor—it was 7' by 11'6"—and faced south, with the sink under a group of casement windows 5' wide. If we could have afforded it, we would probably have tiled the kitchen all over because of the cleanliness of it; but the best that we could do was to put a tile floor under the range two feet wider on the front and sides and to tile the wall behind.

On the second floor there was a hall 17' long and over 6' wide at the head of the stairs, with a window at one end. People used to tell us that it was a mistake to have so much waste space and that larger bed rooms would have been better; but we didn't think so. We liked the effect and airiness of it, and used the wide part of the hall for an upstairs sitting room. At that, the three bed rooms were not so small; one was 13' by 14', and the others 10' by 14' and 9' by 13'. For economy we had only one family bath room, opening off the hall; but there was another next to the maid's room in the attic and a lavatory downstairs, which was all of the plumbing that was necessary—except the kitchen sink and the two wash tubs in the basement, of course.

Nobody had any criticisms to make about our closets. There were seven on the second floor; two in our room,

one in each of the other bed rooms, two in the hall and a linen closet in the bath room. The ones in the hall were the largest, 3' wide and 6' and 7' long, but the ones in the bed rooms were plenty large enough. And there was good storage space in the attic.

With the house on a slope, we had a basement under the entire house without much excavating, and nearly one third of it was walled off for a garage that we reached by way of the inside stairs. The rest of the basement was used for the heating plant and the laundry.

From the time when we decided to build we never went into a house without sizing up its details with an eye to adopting the things that we liked. That was the way we came to decide on metal frame casement windows. We liked the idea of casements and of being able to open the whole window space on a muggy night; but the only kind we knew about had wood frames, and we had heard that those were likely to leak when the wood shrank. We were paying a call one day, and as soon as we went into the house we saw that the windows had metal frames; that was a new idea to us, and when we found that the joints were tight and looked as if they would stay so, we knew that that was what we wanted.

When we were looking at houses with the idea of buying we noticed that if the inside woodwork and the bath room were good the real estate men did a lot of talking about them, and seemed to consider them important. That being so, we decided to use good woodwork ourselves, and to put in a first-class bath room, with the idea that when the time came they would help to sell the house. For the floors we used oak throughout with the exception of the bath rooms, which were tiled, and the kitchen, where the floor was yellow pine and linoleum. We learned that the thing to look out for with the trim was the opening of the joints from shrinkage, and to forestall this the door frames were built at the mill, with the joints well secured. Beside this, all of the trim was painted on the back before it was put on, so that when it had its finish there was no raw wood to absorb moisture. The finish of the vestibule, living and dining rooms was stained oak; but everywhere else the trim was whitewood, painted and enameled.

The bath room was one of the best-looking rooms. The tub was set in a recess tiled nearly to the top, with a wall shower at one end and a figured curtain across the open side—the same material, incidentally, that was used for the window curtains. We didn't think much of the usual small wall tiles in plain colors, and went to a showroom where we found large oblong tiles with rough surfaces and in shadings of green. These were laid on the walls 4' high, with the towel rods, soap holders and other fittings built in.

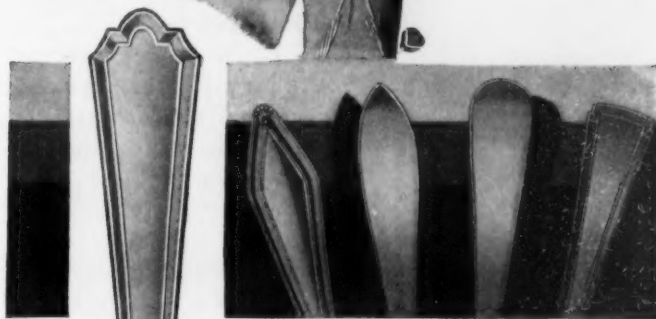
"WATSON STERLING — PURE DESIGNS THAT ARE ALWAYS BEAUTIFUL"



BEAUTY
that lives and lives..

THE critical hostess may choose Watson Sterling, purest solid silver tableware, with utmost certainty that its beauty and charm are authentic and smartly correct . . . The exquisite designs shown here were approved and judged supreme by thousands of women voting from every state and abroad . . . Like many other modern hostesses and brides-to-be, you may wish to purchase out of income. We shall be pleased to assist you, making all arrangements through your favorite jeweler. Please fill out the form below and mail it to us.

THE WATSON COMPANY : Solid Silver Exclusively : ATTLEBORO, MASS.



John Alden

Gov. Dummer John Adams Priscilla Alden Wentworth

"Simplicity is the purest form of art"

Ruskin

Writing in prize competition, thousands of women from all over America and from two countries abroad . . . placed their unqualified stamp of approval and preference on these pure Watson designs as possessing all that is fine and smart and permanent in beautiful solid silver tableware.

WATSON
Sterling Silver
Solid Silver 925/1000 Fine

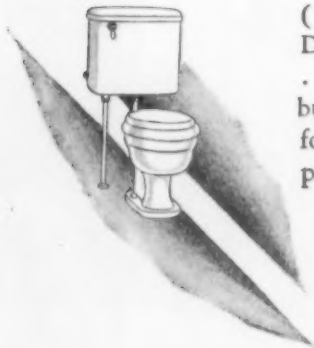
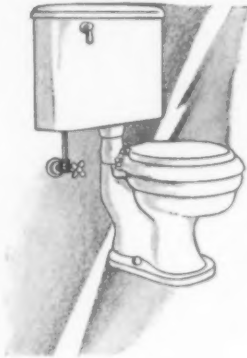
To the Watson Company, Attleboro, Mass.

My name is _____
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I would like to have () particulars of your convenient payment plan whereby I may obtain a service of Watson Sterling (solid silver 925/1000 fine) for () \$65 () \$150 () \$295 () \$750. . . . () A specimen spoon in the _____ design to examine at home. . . . () A photo of the chest () tray () which I may expect with your compliments. . . . () Literature on Watson Sterling designs.



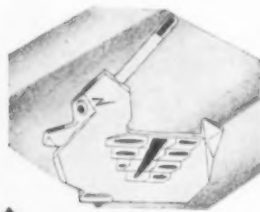
(.....dispose of sanitary pads truly as easily as tissue.... wonderful new toilet..... Improved Madera..... designed for needs so different today..... sanitary pads won't stop it up..... specially large trapway..... very powerful siphon-jet flushing..... quiet..... never hear it beyond the bathroom door..... made of the most beautiful china called Durock..... just wiping with a cloth keeps it spotless..... long bowl and long, comfortable seat..... stays amazingly clean..... water covers every bit of surface under the seat opening..... very latest thing..... any good plumber..... only \$85)



(..... Madbrook..... also of Durock..... long bowl and seat..... large water surface..... but normal sized trapway..... for homes in which the sanitary pad is not a problem..... \$50)

(... coupon to Mrs. Holloway at Maddock's... information about sanitary pad disposal and improved Madera... or Madbrook... and if you enclose 10 cents she will send the irresistible little Durock Duck with a pencil in his head for your desk or bridge table... shows exquisite material all Maddock toilets, washstands and bidets are made of, in white or Blentone colors)

MADDOCK



Mrs. Marion Holloway, THOMAS MADDOCK'S SONS CO.,
Perry and Ewing Sts., Trenton, N. J.

Please send me the things I have checked below :

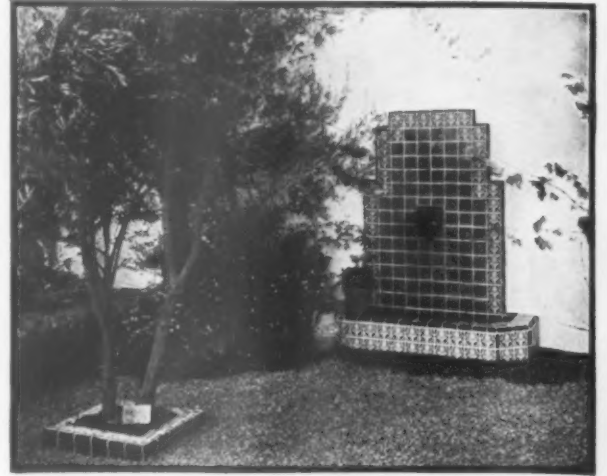
- Information about the Improved Madera and sanitary pad disposal.
- Information about the Madbrook toilet.
- The Durock Duck (I enclose 10 cents).

Name

Address

The National Garden Association

To promote the Annual Observance
of National Garden Week



Persian garden entered by the South Pasadena Garden Club in the recent Pasadena Flower Show. It won the first prize and two silver cups

Getting a flower show going

ROMAINE B. WARE

Ex-pres. Men's Garden Club of Ramsey Co., St. Paul, Minn.

IMAGINE, if you can, a village of 2500 population staging a flower show in which there were 70 entries and more than 1200 people in attendance. That is the record Proctor, Vermont, made last year and it is truly an achievement in community flower shows. All over the country interest in flower shows of every description grows tremendously. Not only have their numbers increased but their quality has improved.

A show to-day must, simply must, be artistically successful. The day of the show consisting of long tables covered with white paper, displaying flowers in milk bottles is gone forever. It is not however that the classes of single blooms or three or six blooms should be discarded because the fancier (whether his hobby is Roses, Dahlias, Peonies or Iris) is more interested in the single blooms than in groups. He studies them as a connoisseur, comparing the varieties

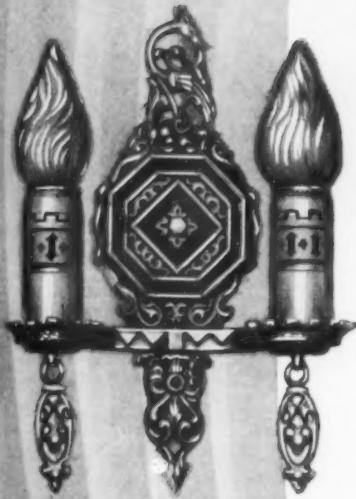
with each other. A good flower show must provide for both artistic and novel displays and single bloom classes.

Recent developments have been along lines that will teach the visitor to make better and more artistic use of flowers in and around the home. The displays feature flower arrangements artistically treated and include accessories to make the picture complete. Tea tables, breakfast tables, invalids trays, arrangements for the sun room, living room and boudoir are interesting and instructive. Charming effects result from the harmony of vase and flower.

The garden club at Wayland, Massachusetts, in their show last fall staged some delightful arrangements. There was one, a window setting with soft yellow draperies and a table upon which stood an amber colored glass vase containing yellow autumn (continued on page 250)



Miniature garden in the Flower Show in the West Chester, Pa., Garden Club.



281 K-2



280 K-5



282 K-3

NOTE, in the homes you visit, how attractive fixtures change ordinary "lights" into harmonious, glowing beauty, just as exquisite settings enhance the brilliance of the jewel.

The fixtures shown on this page were selected at random from the infinite variety of artistic creations which awaits your inspection at the studio of your Moe-Bridges dealer.

Every piece, every set, is authentic in design, faultless in material, and perfect in workmanship.

Let us help you visualize your personal tastes. Our department of interior decoration will be glad to advise you. Send the coupon for our booklet on lighting fixtures.

MOE-BRIDGES COMPANY
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MOE-BRIDGES
ARTISTIC
LIGHTING EQUIPMENT



904 B



501 K-3

MOE-BRIDGES COMPANY, Dept. A-95 Milwaukee, Wis.
Please send me a copy of your 24 page booklet showing the latest lighting equipment designs.

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The LIGHTNING Transformation



Every man is his own quick-change artist in the matter of transforming his home basement from dull gloom to gleaming brightness.

IT'S a simple matter. A few pounds of Medusa Portland Cement Paint, a large brush and a few hours spare time are all you require to make over your basement.

Clean, white walls light up the dark corners, making a safe playground for the children on rainy days. If you are in the habit of using your basement you'll appreciate the great difference Medusa Portland Cement Paint will make. If you're not using it now, you will after it is painted.

Get all of the information on this *different* paint before buying a similar product.

MEDUSA PORTLAND CEMENT CO., 1002 Engineers' Bldg., Cleveland, Ohio
Manufacturers of Medusa Portland Cement Paint; Medusa White Portland Cement (plain and waterproofed); Medusa Gray Portland Cement (plain and waterproofed); and Medusa Integral Waterproofing.

MEDUSA

PORTLAND
Cement Paint



IT'S
PATENTED

MEDUSA PORTLAND CEMENT CO. 1002 Engineers' Bldg., Cleveland, O.
Send me complete information on Medusa Portland Cement Paint.

Name.....
City..... State.....
Street..... Dealer.....
Size of Basement.....



Flower arrangement shown in the Flower Show of the Community Club of Duxbury, Mass., won by Mrs. John D. Adams

Getting a flower show going

Continued from page 248

leaves. Another was a small table covered with a white cloth embroidered in blue, upon which a blue bowl with an assortment of flowers showed off the blue and white combination very tastily. In the show of the garden club of Astoria, Oregon, there were several clever arrangements. One was a breakfast table with a blue gingham cloth decorated with a well arranged bouquet of old fashioned flowers. This was staged by a wayside Tea Room and Antique Shop. The idea aimed at was a table set at a wayside inn for a bride and groom. The setting was arranged upon a stone paved terrace flanked by masses of shrubbery and flowering plants.

Special efforts have been made at many shows to stage their exhibits against suitable backgrounds. Many committees have covered their tables with dark brown cloth, some have used pulverized peat moss most effectively. Evergreens, deciduous trees and shrubs have been used lavishly in providing backgrounds.

Exhibits are more and more being staged in simple natural settings, in dooryards, in borders, as accessories to sun dials or a pool, all such as any not-too-pretentious home might possess. Competition in the construction of miniature gardens is not exactly new, but there have been tremendous improvements in their treatments. They always create a great deal of interest and if well done are an inspiration to the visitor. The West Chester (Pa.) and Chestnut Hill (Mass.) garden clubs had several very fine examples. The latter place had a most delightful and realistic rock garden with water falls, a miniature bridge, paths, etc. In the show staged by the West Chester Club there were four entries in this class. Each was given a space 10 x 12 feet. The exhibits showed great attention to detail in design, color harmony, and texture. Displays of this character

will help greatly in keeping up the interest in flower shows.

The success of any flower show depends upon the committee back of it. This committee may be large or small depending upon the elaborateness of the show. Care in selecting the general chairman is most important. That official must be able to see the whole thing in a broad way in its relation to the community. The general chairman must appoint committee chairmen to work as a general committee, each chairman to have his own committee. There should be committees upon finances, schedules and prizes, publicity and arrangements. Large shows will need even more committees. These committees should get together and outline their plans as far in advance as possible. Several months ahead is not too soon for a large show.

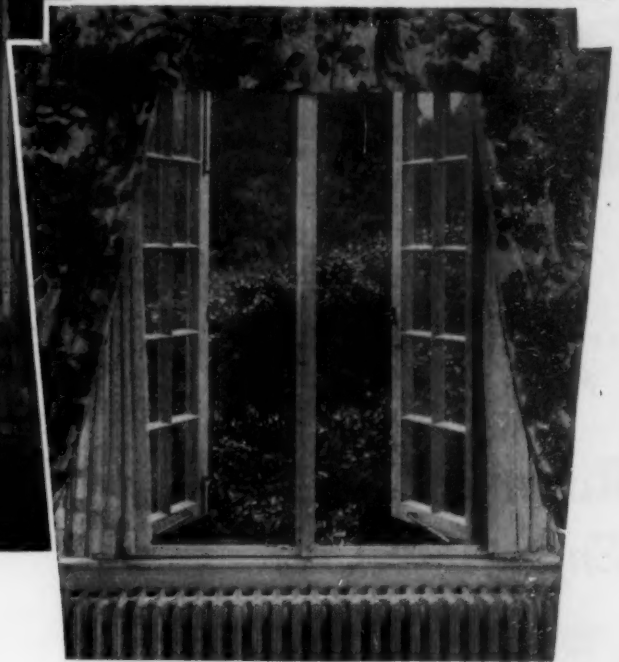
As soon as the general plans for the show are made and it is possible to roughly estimate the costs, the finance committee should raise the necessary funds. This is easy if the right men get back of it. Banks, business houses and merchants are always willing to help if approached properly.

The committee responsible for the "Schedule of Prizes" should prepare it as early as possible. I recall one of the flower shows when I was president of a garden club, for which the premium list was published in March, the show to be held in August. This allows the prospective exhibitor to plan in advance for his display. Good shows are the result of the combined thought, ideas and efforts of many people. They don't just happen. The schedule committee can do much to make the show a success by drawing up the schedule in a thoroughly practical manner. It must be so carefully worded that it may not be misunderstood. It will aid the judges greatly if the prize schedule is so carefully worded that it can not (continued on page 254)

These Screens...designed to enhance the charm of your home



Built for
Longer Service-
Greater Economy



Screens that are designed to blend beautifully with the lines of every window, door and porch, adding to the charm and character of your home -- this is what Higgin now offers you, through a nation-wide organization of screening experts.

Rolling Screens, Hinged Screens, Sliding Screens... all built to give years upon years of perfect service. So trim and smart in appearance. So easy and convenient to operate! The narrow all-metal frames never twist, warp or break. The semi-invisible mesh is scarcely seen... sunlight and fresh air flood your rooms!

The Higgin representative in your locality is a trained specialist, always ready to serve you. He will gladly discuss your screening problem with you and give you an estimate, free of charge.

More than a third of a century's experience in solving screening problems is back of this service.

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KANSAS CITY, MO. TORONTO, CANADA

HIGGIN

ALL METAL

SCREENS

ABOVE--Interior view of Sun Room, residence of Mr. W. Duncan Lee, Architect of Richmond, Va. The Higgin screens swing inward, the windows open outward.

AT LEFT--Residence of Mr. Julius Edelson, Philadelphia, Pa. The Higgin screens blend perfectly with the lines of the doors and windows. Notice the narrow frames... the semi-invisible mesh.

If you are now building, or if your present home needs new screens, write at once for a complimentary copy of our beautifully illustrated booklet. Mail the coupon now.



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Please send books checked Weather-strip Book Screen Book

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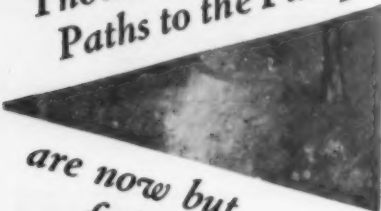
Street _____

City _____

State _____



Thousands of Paths to the Pump



are now but fading memories



This Fairbanks-Morse Home Water System—210 gal. an hour pumping capacity. Complete with motor for 60 cycle A. C. or direct current. Entirely self-contained and fully enclosed. Cash F. O. B. factory



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Have running water this summer. See your dealer. Expert advice and counsel on water service problems free on request. Use the coupon.

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Fairbanks, Morse & Co., Dept. R-5, 900 S. Wabash Ave., Chicago

Send your FREE Home Water Service Book and Special Circular giving full details about the New F-M Home Electric Water System.

Name

Address

Town

County

State

My source of water supply is:
 Lake Spring Stream
 Deep Well Shallow Well Cistern

Have you electricity? Yes No

Getting a flower show going

Continued from page 250

be misunderstood or misinterpreted. Many times a class is so carelessly described that neither the judges nor the exhibitors can tell what is meant. A show to interest amateurs must give the greatest number of people an opportunity to win prizes. In many classes it is not too many to have 1st, 2nd, 3rd, 4th and 5th prizes. They need not be high in value but the honor of winning and having the ribbon to show means a great deal. By all means have ribbons, and if possible have them printed. They will be kept and cherished long after other prizes are forgotten.

As for prizes there are many ways to obtain them. Local merchants are usually willing to provide them in merchandise for the publicity they obtain as well as for the good of the cause. In this case it is well to restrict the merchandise to things related to gardens and gardening. Sometimes the local bank will offer a cup for some important class. In one city of 250,000 the leading newspaper cooperated with the garden club, by placing \$200 at its disposal for prizes. They did it for the good of the community and the publicity.

The committee on arrangements should work with the one upon schedule. Theirs is the job of putting originality into the show. Whether it is an artistic success, whether the public find it interesting and whether the prospective exhibitors will be interested depend upon these two committees.

When the time of the show arrives the committee upon arrangements must attend to the practical details. They must see that tables are provided, set up, arranged and covered, that there is an adequate supply of water easily accessible. I have known of shows where water had to be carried from distant parts of the building when a hose with a spring faucet upon the end would have saved much time and confusion. Little things like this make a great difference in the case with which an exhibit is staged. The more nearly the committee can anticipate the needs of the exhibitors the less difficulty and confusion there will be the morning of the show. Such things as backgrounds, the setting up of tables and covering them should be attended to the day before.

The hall or location where the show is to be held should be accessible to the public, or at least where they are in the habit of going. An out-of-the-way place will seldom draw a crowd and it is desired that as many as possible not only visit the show, but exhibit as well. The most desirable place is a hall or building where natural daylight is good, especially if it can be north light without direct sunlight. I know of one place where the largest auto show room in town was turned over to the garden club three days each year, every car being removed. The publicity paid him many times over in the long run.

The committee on publicity has most of its work to do before the time of the show. Last December I was visiting in a small but very much alive community in California. The local garden club was even at that early date working through their

newspaper urging that preparations be made for the flower show to be held in May. That's publicity and it is that kind of publicity that makes a show a success. Each week the publicity committee should provide the local paper with carefully written copy playing up the coming show. The paper will be glad to get it and run it if you will make it interesting. Don't wait for them to come to you and don't just offer it in the form of an announcement. See to it that it is news. One week it may be a short interesting article about a local garden that is planning to exhibit, another week it may be about some extra fine flowers or shrubs in some local garden with a mere mention of the coming show. There are countless ways to provide news items that the papers will welcome. For several weeks before the show displays of flowers may be made in shop windows, stores, hotels and office building lobbies with attractive signs advertising the coming show. If approached rightly the local department store may be willing to mention the show in their advertisements. A live publicity committee can do wonders for the show. The chairman of the committee should be some one in close touch with the local paper.

The judging of the show is most important. The judges should be selected carefully. Their task is not easy. It needs good common sense combined with artistic and cultivated tastes without any fastidious ideas.

An innovation in judging was carried out at the South Jersey Gladiolus show at Vineland last year. As supervising judge, Mrs. A. H. Austin, the well known grower and originator of glads judged some of the classes orally, laying all the cards of judging on the table, as it were. In this way the exhibitors and other listeners learned exactly why the winning awards were made. It is usually to avoid the possibility of professionals or growers who commercialize their gardens competing against amateurs. As an aid to garden clubs and communities wishing to hold flower shows the U. S. Department of Agriculture has issued a bulletin on the subject which may be had by writing for "Dept. Circular 62: Horticultural Exhibitions and Garden Competitions."

Among the new features that have been introduced into flower shows in the last few years are the "Still Life Pictures." The appearance is that of an art gallery, however the colors are absolutely true as they are nature's masterpieces themselves. The "Still Life Pictures" or shadow box effects are staged as follows—a light framework is constructed from ceiling to floor about two feet out from the wall. This framework is to be covered with burlap, openings to be cut at intervals for the pictures, each opening to be fitted with a frame. As the pictures vary greatly in size the openings are not cut till the exact locations and dimensions are determined. The space back of each opening is lined with black material and upon a shelf built therein is placed the vase with flowers or other arrangement. Lighting effects may be added as needed.



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Porch Furnishings chosen with care . . . Lamps, Rugs, etc. arranged tastily . . . a fine "ensemble" in fitments . . . time and money represented in every purchase;—and THEN!—

A quick, hard shower, a driving rain, drenching the entire outfit! "Roll up the Rugs,—cover those Cretonnes,—protect that Bridge Lamp and End Table,—move those Pillows!"

Maybe you're in time. Maybe not. Anyway, the scorching sun glare comes next day; more trouble.

Why Take Such Chances?

Why indeed, when a Satisfactory, Easy, Inexpensive solution of the problem is just to install a set of

Warren's Porch Shades

WARREN'S "Ideal" Shade, more popular today than any time in 20 years. WARREN'S "Rain-tite" Shade, absolutely Rain-proof, Sun-proof, Sight-proof, yet full ventilating.

Choice of either in all widths 3 to 12 feet, and in Sylvan Green, Woodland Brown or Natural; oil-stained colors, smooth velvety slats; easy to hang, easier still to operate, and so easy to pay for. Durable too;—long years of service.

YOU WANT WARREN'S! In case your dealer says he hasn't them, tell him "Why not? Very well, I'll get them direct from the factory." Then write to

Warren Shade Co.

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FLOWERS beautiful in any vase are doubly beautiful in the right vase—such as the full richness of red roses in a Weller Pottery bowl of Coppertone. Here the bowl in its shape and texture resembles a piece of ancient copper that centuries have mottled with green. . . . Other Weller bowls and vases have an unusual freshness of lustre—or are overglazed or underglazed, with any colors in living fire! . . . Besides Weller flower holders, observe massive old candlesticks, fruit platters, lamp bases, jars for plants—and some thick fruit-patterned cups and plates as in the days of monasteries. Prices for any of this pottery are doubtlessly less than you believe. Write for descriptive folders. The Department of Decorative Arts, The Weller Potteries, Zanesville, Ohio—*Potters since 1872.*

WELLER  POTTERY

Don't forget those radiators

The ones that were always partly cold last winter. Put on Cadwell No. 10 Air Valves now, while you remember. When you start the boiler next fall, these valves will automatically release the cold air and allow steam to make the radiators hot all over, bringing complete comfort to every room in the home.

Cold air—no heat!

A radiator often remains half dead, no matter how you feed the fire because: When steam enters, it forces the cold air ahead of it to the end where the air valve is. If that valve is worn out or clogged up, it does not let the air out. Until the air can get out, the steam cannot heat that end of the radiator and it remains cold.

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CADWELL No. 10 AIR VALVE

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The Beaton & Cadwell Mfg. Co.

Established 1894

New Britain, Conn.

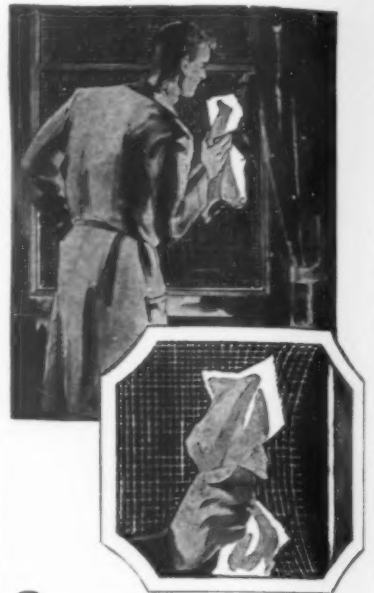
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Sleepless Nights Ahead . . . If those screens are still torn

WHY spend long, wakeful nights needlessly? When all the doors and windows of your home are screened with a fine-meshed wire cloth it means real protection for the young ones as well as for yourself.

Strength of the wire, evenness of the weave, and weather-resisting properties of the whole screen, are qualities you should insist upon obtaining. Beauty, too, is important. All of these things are notably present in the world-known Opal and Liberty wire screen cloths.

OPAL is a heavily zinc coated wire screen cloth made from the best hard drawn steel wire, full gauge and perfectly woven. Its protected White Satin finish blends well with any color or type of home.

LIBERTY Golden Bronze is made of hard drawn bronze wire, non-corrosive, strong, resilient, perfectly woven with uniform mesh and straight lines. It has a beautiful rich gold color.

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Your hardware dealer has New York Wire Cloth. See him now. Look for the Minute Mark Trade Mark "The Sure Defense"

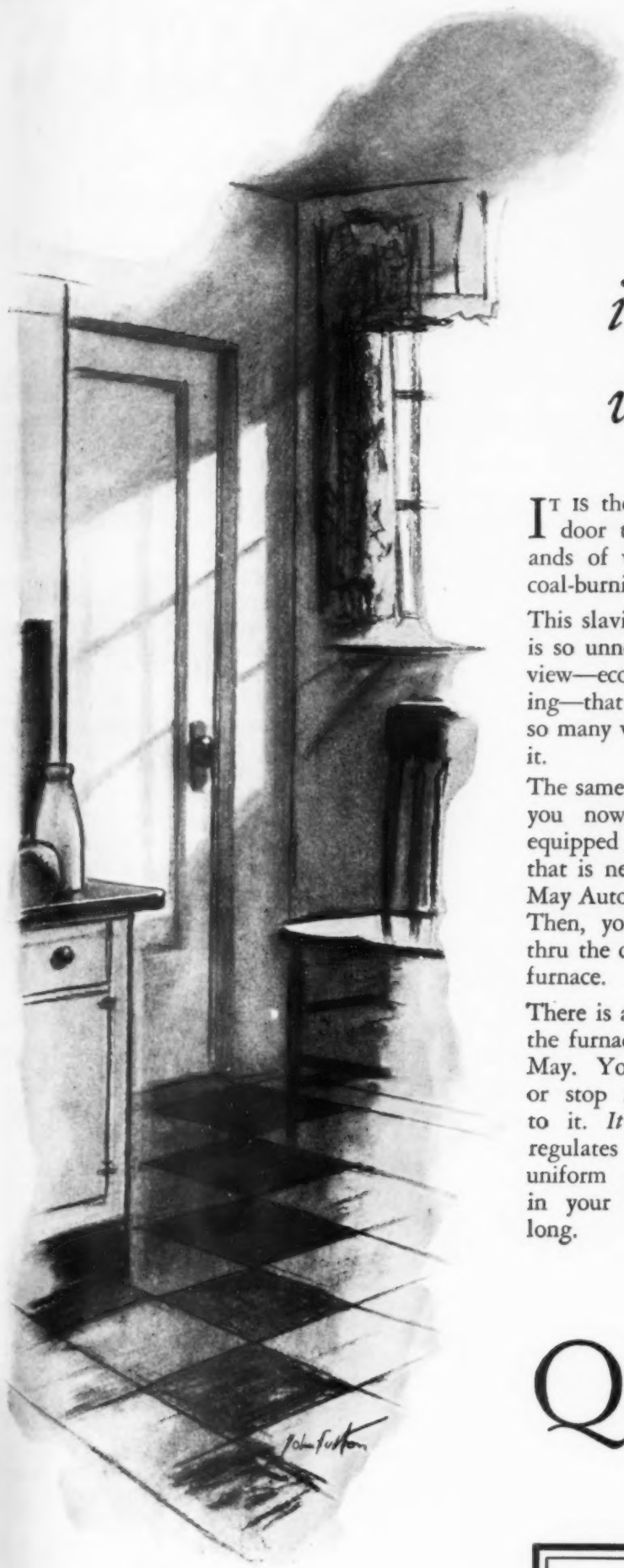
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NEW YORK WIRE CLOTH COMPANY

342 MADISON AVENUE NEW YORK

There is one door in every home that no woman need ever open



IT IS the door to the cellar—the door thru which tens of thousands of women pass daily to tend coal-burning furnaces.

This slavish attendance on a furnace is so unnecessary from any point of view—economy—health—decent living—that it is incomprehensible why so many women continue to practise it.

The same furnace or boiler in which you now burn coal can be so equipped that you can burn oil. All that is necessary is to have a Quiet May Automatic Oil Burner installed. Then, you need never again pass thru the cellar door to attend to the furnace.

There is absolutely nothing to do to the furnace when you have a Quiet May. You don't have to start it or stop it or do anything at all to it. *It is automatic.* It regulates itself. It keeps a uniform temperature within your house all winter long.

When the Quiet May is installed you decide to what degree you want your house heated. Then you forget about it. There is nothing more for you to do. The Quiet May keeps your house heated to the degree you designate regardless of how frequently or rapidly the weather changes, and regardless of what the temperature is out-of-doors.

A complete explanation of how the Quiet May works is contained in a book that you can have free. Just send us your name and address together with the coupon shown below and the booklet will be mailed to you. The book tells its story thru pictures.

In four or five short months cold weather will return. Will you again go thru that coal-heaving, ash-hauling experience, or will you have a Quiet May Automatic Oil Burner installed and let a simple mechanical device do your manual labor for you. Send for this booklet and then decide.



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Please send me a copy of your free booklet that shows in picture form how the Quiet May Automatic Oil Burner looks and works.

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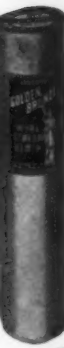
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E CLOTH

EW YORK



"Heart broken" says prominent YEGG

"I'm hangin' up me jimmy. A crook's life aint what it usta be. Last night I spots three juicy "jobs" and no cop in sight. I woiks me way up to da doors. And smack! You coulda knocked me down wid a feather—every one had a Segalock. Ya could'nt crack one of dem babies wid a pickaxe. Tough luck, did ya say? Tough LOCK, sez I."

Priceless protection, certain security, peace of mind are yours with Segal burglarproof locks between you and dishonesty. A twist of the key or a turn of the knob joins door and jamb with an unbreakable grip . . . stronger than the door itself. They cannot be jimmed, forced or pried open. Yet for all their brute strength and protection, they are modern and attractive front door fixtures of solid bronze. Your home, garage, store, office or factory deserves Segal protection.

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Make sure that the listing of booklets from which you choose is that of the latest issue of the magazine as *The American Home* cannot guarantee the delivery of booklets not listed in its current issue.

HEARTHSTONE EDITOR, THE AMERICAN HOME, GARDEN CITY, N. Y.

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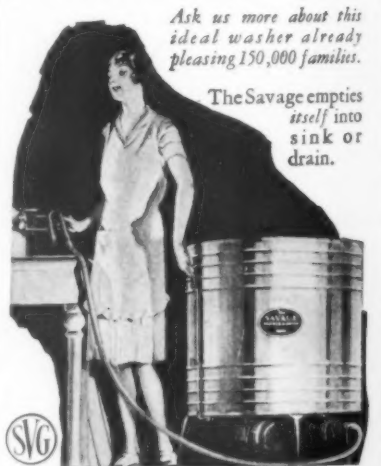


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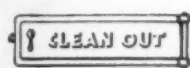
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Ever try to relight a Cigar through the Ash?

...or to heat a house with a boiler
muffled in Soot?



says the legend on the boiler door. Good advice — if you want economical heating.

As soon as your fire is out, give your boiler a spring cleaning.

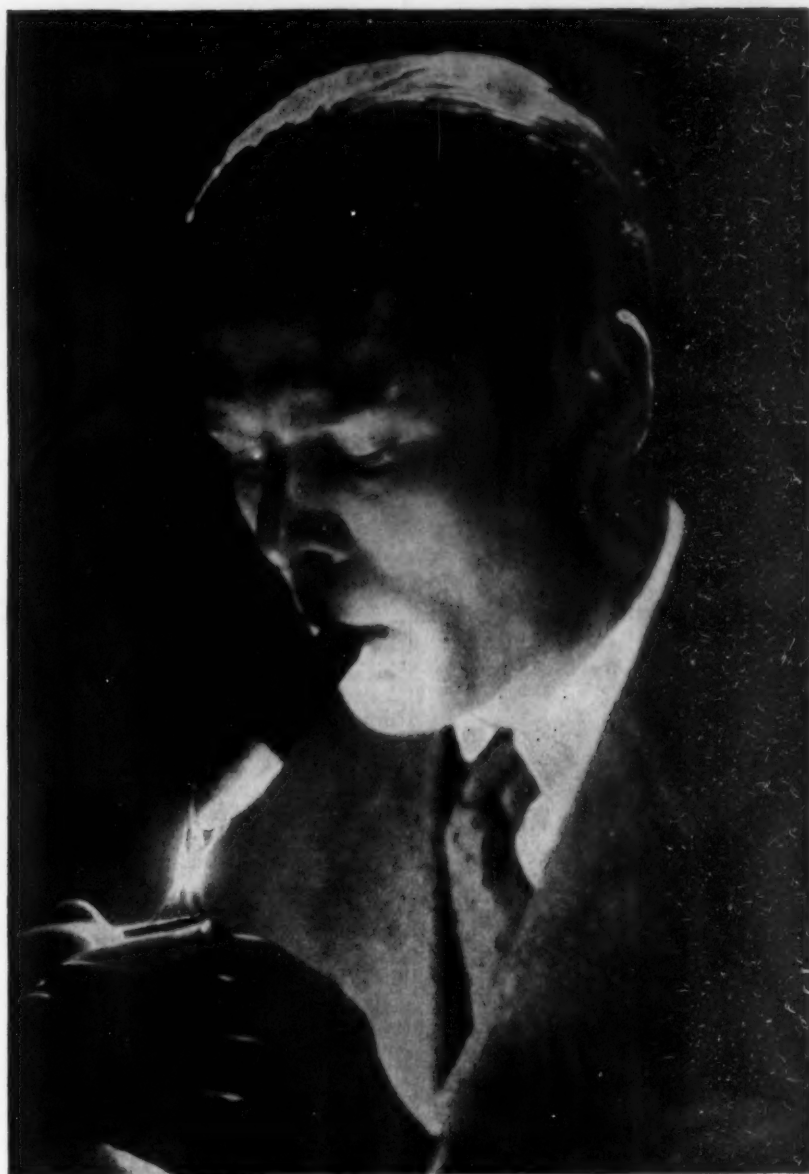
Flaky soot in the boiler passages forms an insulating blanket, often responsible for more than a 25 percent loss in efficiency of the Fire Surface. Clean it out for the same reason you knock the ash off a cigar before relighting. Give the Fire Surface a chance.

But more important still, be sure your boiler has enough Fire Surface. If the cigar is cracked above the ash, you will not be very successful in relighting it even with the ash knocked off.

Even with the soot cleaned out, a boiler with too little Fire Surface is the most wasteful thing you own. It loses up the chimney a large percent of the heat generated. It often lets your house go cold and uncomfortable. It lets your fuel bills climb sky-high.

The only remedy is to replace it with a new boiler. One that has enough Fire Surface to absorb all the heat your house needs and pass it on economically to every room of your house.

Then your home will



be always warm and comfortable, and every year you will make a saving in your cost of heating—a saving that in a few years will pay the cost of the new boiler.

If you have a "sick" boiler in your house, or if you are going to build and want to avoid installing one, send for free copies of our two books, "Guaranteed Heating Satisfaction at Minimum Cost," and, "Does it Pay To Install an Oil Burner?"

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Send free copy of "Three Hundred Years of Charm" and the nearest N & S dealer's name and address to
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Knifing the Rhododendron

Continued from page 196

Of the newer Chinese species, most of which are still in the experimental stage in Eastern United States, some are said to kill themselves unless partly disbudded, notably augustini, campylocarpum, fargesii and yunnansense.

Any Rhododendron transplanted in spring will usually form too many flower buds that season. The excess is probably a result of cutting back the roots. No doubt the plant expects to die, blossoming profusely in a final effort to reproduce its kind and so fulfil the law of Nature.

"Collected" Rhododendrons, which are wild plants shipped direct from the hills and woods, should usually not be permitted to bloom at all for a year or two. They establish themselves but slowly, and need all available energy for root and stem growth. Nearly all maximum, catawbiense and carolinianum are "collected" and should be completely disbudded at the time of planting.

Other Rhododendrons are almost certainly nursery grown. They may be permitted a few clusters the first year, but should be watched the second season, for they are almost sure to overproduce if well planted.

EXCESSIVE BLOOM

The Mrs. C. S. Sargent in the illustration (page 196) which after transplanting formed seventeen buds while only seventeen inches high, demands attention, as each bud if permitted would open more than half a dozen blossoms. Such a yield is beyond the strength of any Rhododendron at this age. Early in May ten or twelve of the buds will be removed.

The six-foot hybrid which a year after transplanting shows over 120 buds must give up 70 of them in April. Perhaps it will be treated even more severely. Twenty-five or thirty flower clusters ought to make a gorgeous showing, and will leave the bush in a better state of health.

In fact, too great profusion of bloom, while striking, may afford less true beauty than a moderate amount. Flowers should not hide the leaves, for otherwise the picture lacks contrast both of line and of color.

To disbud, cut out the flower bud only, using a sharp knife. Be careful to cut no lower than necessary, or you will remove the small buds just below, from which new stem and leaf growth must come.

Immediately after the blossoms fade, most Rhododendrons put out several inches of new growth, branching from the tips that have not flowered, and a little later around the flower clusters themselves. Disbud-

ding usually increases the number of new tips, giving you a denser and fuller shrub.

Rhododendron maximum and a few others put out their new growth before the flowers, which do not open till July. The new leaves hide the bloom in healthy plants. Hence maximum, though large and hardy, is not one of the best species.

Except where you want to ripen seed, the faded flower heads should always be trimmed away. Seeding exhausts a Rhododendron almost as much as blossoming.

WHEN BLOOM FAILS

If your Rhododendrons do not bloom, ask yourself the following questions: Did they bloom too heavily last year? Were they planted with a generous supply of granulated peat moss in a light loamy soil? Is there any lime or plaster in the soil? Have you been careful not to put lime or bonemeal near them? Have you used only well rotted manure, and plenty of that? Have you kept them permanently and heavily mulched? Have you planted them where water does not stand on the roots in winter? Do you keep them well watered in dry weather? Are they too much exposed to wind, sun, or shade?

All these questions are important if you wish to grow the most magnificent of evergreen shrubs.

If planted in heavy clay or in soil containing lime, bonemeal, or plaster, dig them (with a good ball of earth) at the end of August and transplant into very light soil mixed with granulated peat moss or known to be acid soil. At least start at once to build up a permanent mulch of peat, oak leaves and thoroughly rotted manure.

Shield them from wind, and give some, but not too much, shade. Most of the hybrids will stand full sun, but grow better when partly screened. Rhododendron maximum prefers to be well shaded, catawbiense moderately, while carolinianum once established does well with little shade or none at all.

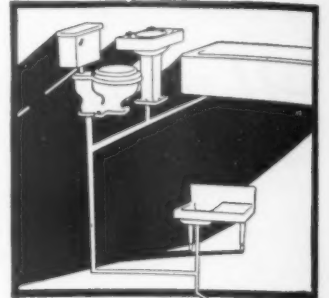
No Rhododendron should ever be permitted to dry out at the root.

If you observe these rules your Rhododendrons will usually yield more than their share of flowers without complaint.

Do not prune Rhododendrons in the early fall. At any other time of year cut judiciously as much as seems needful, but the end of August and the month of September are dangerous because new growth is likely to start before winter. In this case it may not harden enough to resist the frost.

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For Homes in Unsewered Districts

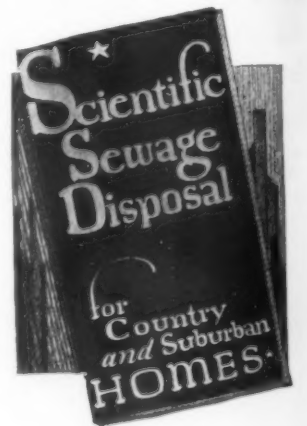


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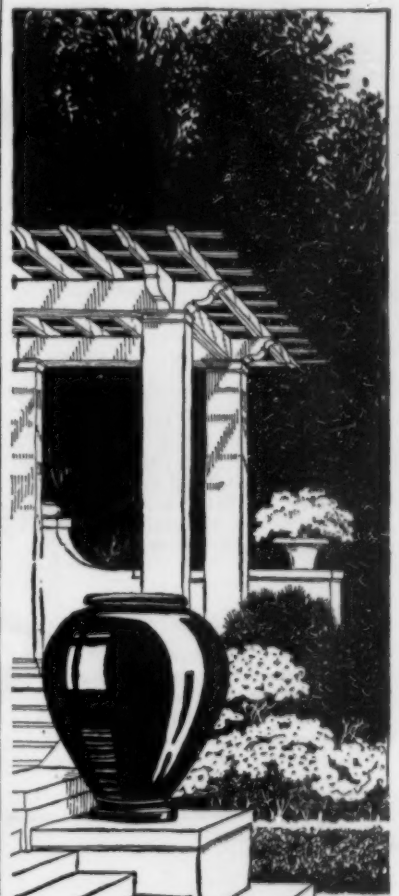
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SHOP WINDOWS OF MAYFAIR

BY SHIRLEY PAINE

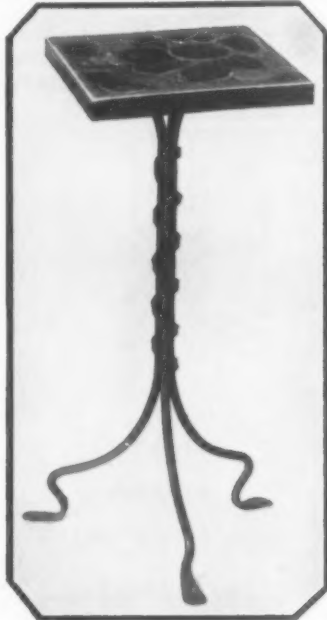
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Ideal for May—stunning hand-made wrought iron table with single Spanish tile in realistic fruit design in lovely colors. Fine for house, garden, sun room, or porch. You have choice of this or flower design at the same price, \$7 FOB shipping point. Ht. 20". Catalogue of larger designs.

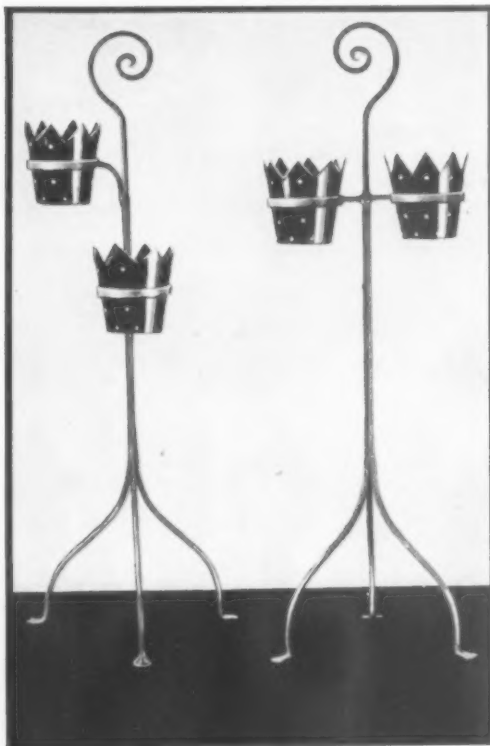


The famous Virginia "Shuck Bottom Stool"; walnut or maple; 12x14x10" ht.; \$5. Good for any Colonial rooms, porches, fireplaces. Keep feet from drafts. \$5. Catalogues.

Clever tray stand folds flat, or opens to solid tray table. ht. 25" 14x26". Unfinished, \$10; mahogany, \$12.50; color \$13.50. FOB N.Y. Express p'paid during June.



A simple and charming wrought iron candle holder for a library, summer cottage, foyer, or on either side of a mirror. Backplate 7 1/4 x 3 1/4". Price \$2.50 is low enough to permit wiring by your local electrician and still keep below the usual rate for such an item. Large catalogue of iron things.

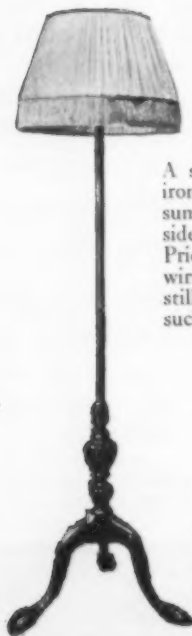


These are my ivy stand "Specials" for May. Both hand-wrought; Pompeian green enamel weather-proof. Ht. 36 inches; handy carrying crook; 3 legs prevent rocking. Either stand \$3.50 ea., bright tin pcts with fashion prints or dots (any color) \$2.50 ea., Italian pots glazed in lovely colors \$2 ea.



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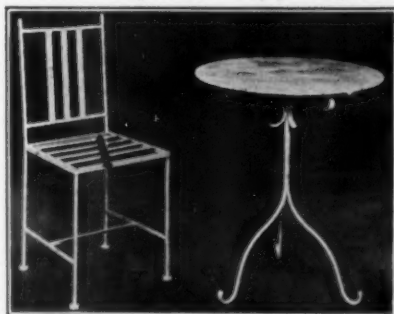


Table 24" in diameter by 29" in height.

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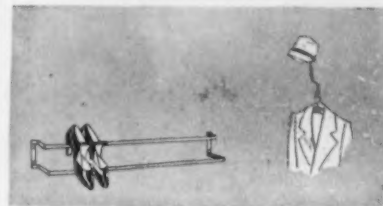
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Janet Gray AT LEWIS & CONGER

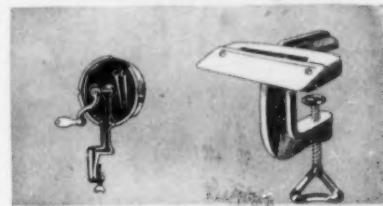


THESE new Hat Holders are the best ever in my humble opinion. They fasten to closet walls. The Big Chief especially likes them because they hold them so securely they can't be flipped off to the floor. Each Holder also has a convenient hook below for a coat hanger. Set of six, \$2.50

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Janet Gray

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No. 1189

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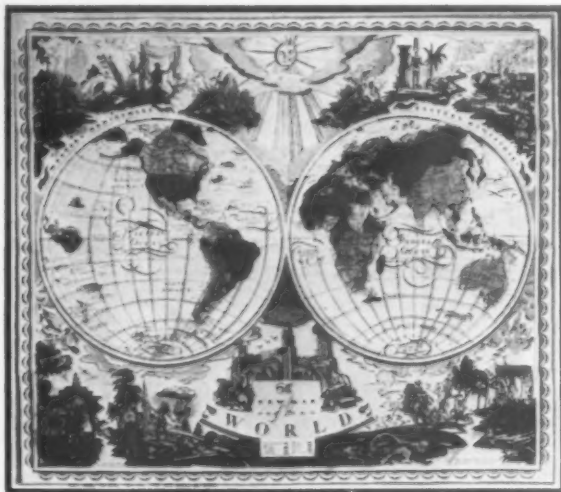
Silhouettes are attractively grouped with mirrors. The titles of these are "Mr. and Mrs. Paget" and they are reproduced in black on cream paper, from the originals cut in 1822 by Master Hubbard. The frames are copies of old English patterns, black wood panels (outside measure 4 1/2" x 5 1/2") with gilt metal rims (openings 2 1/2" x 2 1/2"). Price \$5.50 each.

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SHOP WINDOWS OF MAYFAIR

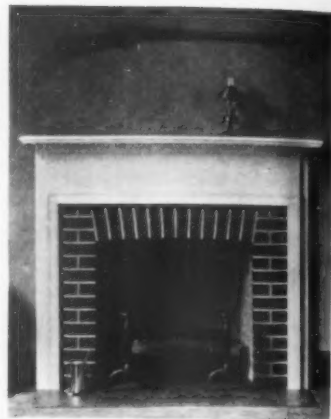


World Map by Fischer, 17th century. Maps of the heavens, signs of the Zodiac, richly colored prints of the Four Seasons; 12 colored prints with costumes of Nations. Nice for library, studio, man or boy's room. De luxe edition from original plates, hand-colored by Paris artists, heavy hand-made, water-marked paper. Large 20x24", \$3.65; small 10x12", \$1.90—all p'paid.



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Colonial Fireplaces



were almost always finished with a wood mantel. The one shown here is a copy of one of the simple ones, charming because of its good proportions and delicate mouldings.

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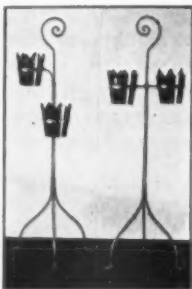
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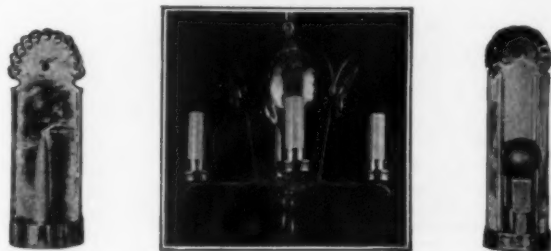
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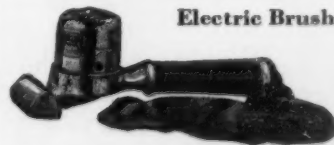
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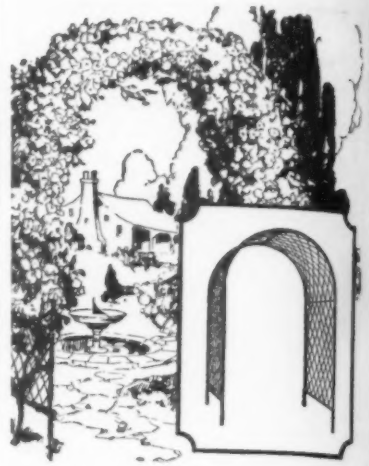
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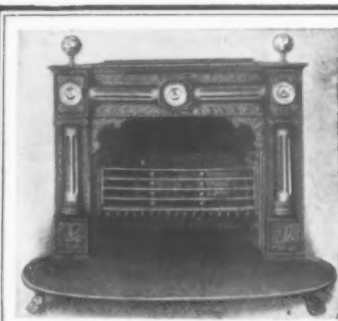


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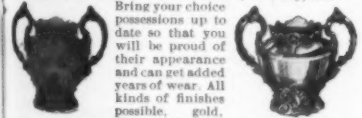
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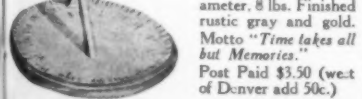
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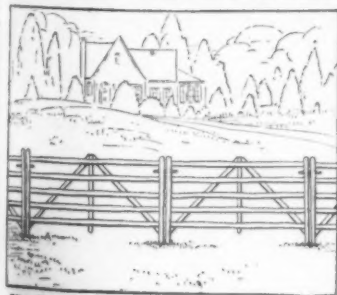
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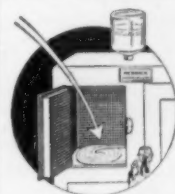
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In and About the Garden



[*Richard Barrow*]

DISAGREEMENT from the dicta of authority is the one sure rallying ground for gardeners. As I remarked last month the old slain dragon of the moon's influence over time of seed sowing serenely pops up his head on the other side of the world and with, seemingly, better support than usual—a support of intelligence, intelligently argued; not the support of stupidity or rule-of-thumb adherence to empirical practice. Is there anything in it?

Quite recently I have noticed something that, if true, means a lot of us have been wasting years of time and mountains of labor on something that after all has been more or less falsely foisted upon us. The very foundations of much of our old established garden beliefs are being knocked from under. This latest assault on orthodoxy would assure us that "cultivation"—i. e. the "constant stirring of the soil to maintain the dust mulch, etc., etc.," has been sold to us under a wrong label, especially as it has reference to the "broken capillary column of rising moisture," etc., and that equally good results could be had by the simple process of constant extermination of the weeds—pulling them up as soon as they popped their heads above ground. In other words the modernistic point of view is that by preventing the robber weed from carrying out its aspirations to live and absorb moisture from the soil the welfare of the crop is assured. Such would appear to be the sum of evidence from those recent experiments tried out with crops grown in rows, like Corn or Gladiolus. It's always been an entangling question in many minds as to why the plants in uncultivated flower borders—uncultivated by the very necessities of the situation—should flourish as they did without the "constant stirring of the surface soil, etc." But that they do so, we all know.

And then there is the modernistic doctrine of planting Roses thickly, and not first digging out a drainage well on the spot they are to adorn. Of course we recognize the cause of error in the Rose gospel—it is because the drainage idea and airing necessary in a wet soil were not necessary, even injurious in drier conditions. But it took many decades and many men to find it out. The truth you see lies on both sides; and everything depends on *your own* position or point of view.

All this goes to show that the real study of gardening is a study of plants and their habits and then casting around to find conditions to correspond with them as fairly as possible. The plant habit has been pretty well fixed in its descent (or ascent) of thousands and thousands of generations and the best gardener is the one who can best interpret the plants' own sign language. Let us all keep ourselves keyed up to grasp the unusual and start on the quest of the wherefore.



Gold-band Lily (*Lilium auratum*) grown by Mrs. A. R. Smith, Gisborne, New Zealand. The plant has 184 buds, is 7½ feet high, over 2 feet wide, and the actual cluster of flowers is 3½ feet

THE CLIMATE OF IDAHO

Says a very esteemed correspondent (whose opinions on garden affairs in her own home region I have often leaned on):

I am still wondering why we of "Sunny Idaho" were placed in the very late planting list in Mr. George Quint's comprehensive planting table in the March issue.

I think the section where I live, in Caldwell, in southwestern Idaho, near our state capital, might be said to represent the average climate of the agricultural sections of Idaho. We are in the heart of the large Boise-Payette Irrigation

project. The Lewiston-Clarkston country, in northern Idaho, is several weeks earlier than we, while the Twin Falls country, to the south, on account of its altitude, is somewhat later. Much of eastern Oregon, which Mr. Quint places in later section E, is about the same in climate as we are.

I have kept a garden record for a number of years, and among other items of interest I have jotted down the date of the very earliest bloom of many of my flowers. The average time of blooming is somewhat later. I want to cite a few examples, comparing the time of flowering with the seed schedule of Mr. Quint. You will notice that a number of my flowers were in bloom more than a month before the time of seed planting recommended by him.

Planting Schedule by Mr. Quint	Earliest bloom in my Garden	
Myosotis	May 27	April 20
Pansy	May 24	April 8
Poppy	June 1	May 15
Wallflower	June 6	April 8
Aquilegia	June 5	April 20
Perennial Poppy	June 3	May 14
Delphinium	May 30	May 10
Pyrethrum	May 29	May 1

Under date of May 1, I record upon several occasions quantities of syringa, lily-of-the-valley, forget-me-nots, violas, aquilegia, etc., for may-baskets; and under date of May 10 I read: "Such wealth of flowers in my garden: 3 kinds of lilacs, 3 kinds of Tartarian Honeysuckle, Iris, Myrtle, Ranunculus, Pyrethrum, and many others."—(Mrs.) Ruth G. Plowhead, Caldwell, Idaho, 422 Cleveland.

And now, in rebuttal, by Mr. Quint:

Mrs. Plowhead's letter is indeed interesting and illuminating. Not only that, but it proves that nothing may be set down as a hard and fast rule, for something is always likely to come up and upset the best laid plans of the lawmakers.

In gardening especially, what may be set down as a guide for one case may not work out in the next.

As was stated at the outset of my sowing chart, the tables were prepared on the basis of climatic conditions over a period of years. The dates, as may well be understood, are approximate, and in every case given for the sake of safety—that is, after danger of late frost has passed.

The chart was compiled after very careful research, which included a thorough study of United States Department of Agriculture maps and reports over a period of twenty years, averaging figures, etc. In

my research was included communication with more than one hundred and fifty garden clubs, commercial florists, seedsmen, experiment stations and amateur gardeners in every section of the country.

It is quite possible, of course, to start seeds in coldframes or hotbeds long before it is safe to set them outdoors, and as was pointed out in my article on coldframes and hotbeds, published in the February issue of the magazine, flowers may be had several weeks in advance of those started from seeds sown outdoors.

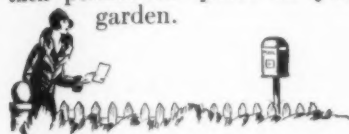
Mrs. Plowhead has set forth the *very earliest* date of bloom of certain flowers. It is quite possible that those were in extremely warm springs. Again, Caldwell, (continued on page 296)

ROSE NEWS

Published now ☆ and again ☆ by Star Rose Growers ☆ Conard-Pyle Company ☆ Robert Pyle, President ☆ West Grove, Pa.



If you're going to have that lovely rose-garden you've always wanted, you'll have to get busy. It's getting late, but it isn't too late yet to send for "Star" Roses and still have blossoms this summer. But you'll have to hurry. We'll rush the plants to you as fast as they can travel—we want you to have a rose-garden—we know the joys of rose-growing and the pleasure you'll receive when you have them in your own garden. But you'll have to hurry! It will be too late for dormant plants, but we will have for you plants started in pots, ready to be put in their permanent place in your garden.



Roses for graduation



When June comes along and your daughter or your neighbor's daughter graduates from school in her dainty white dress or cap and gown, what would fit into the picture better than an armful of home-grown roses—fragrant and sweet as the Sweet Girl Graduate herself? You can find out from your local school what color is to be adopted for this year's graduation class, and plant enough "Star" Roses to supply plenty of blooms for the graduate and her home. Everblooming Hybrid Tea Roses planted now will bloom in June.

A personal invitation to you

Are you planning a motor trip for this summer? We can tell you of some country that we know you'll be delighted to see. It's the beautiful country around West Grove—interesting scenically and historically. You'll be welcome down this way—we'll be glad to see you, and our roses will give you the most fragrantly beautiful reception you've ever had. We're proud of our rose gardens and our hundreds of thousands of gorgeous blossoms stretching away into fields of beauty and color. But we're not miserly about them—we want to share their beauty with

you. After all, there's so much magnificence in a rose garden that we cannot possibly encompass it all. So we invite you to enjoy our roses with us.

The "Star" rose gardens are easy to reach—they're on U. S. Route 1—the highway that runs from Maine to Florida, through Portland, Boston, Providence, New Haven, New York, Trenton, Philadelphia, West Grove, Baltimore, Washington, Richmond, and on to Miami.

Come and see our roses and come more than once. All varieties do not bloom at one time, so there is always something new to see.

A valuable booklet



"I've just finished reading your book 'Success with Roses' and it has given me a lot of information that I intend to put into good use this spring. I have grown roses for several years with pretty fair results, but there certainly were many things I didn't know about the care of roses. It's very handy to have all this information collected into one little book." (Mrs. J. C. D., Cincinnati, Ohio) (Send for "Success with Roses"; costs only 25 cents)

The label stays on

One of our customers wrote us about her little son who thought it would be a good deed to collect all the pretty white stars that his mother had evidently forgotten to take off the rose-bushes when she planted them. So he very carefully ripped the "Star" labels off the roses and brought them to his mother in great glee. But so strange are the ways of grown-ups that mother didn't seem a bit appreciative of his efforts and he isn't going to do it again!

Mr. J. H. Nicolas of our Research Department delivered his interesting and educational lecture on roses before the Flower Growers of Lycoming County at Williamsport, Pa. on January 7th, the Women's Club at Salem, N. J. on January 14th, the Garden Club at Ruxton, Md. on January 21st, the Horticultural Society of Providence, R. I. on February 6th, the Horticultural Society of Richfield, Conn. on February 8th, and in March before the Women's Club of Cleveland, Ohio.

"Come Into the Garden, Maud"

The favorite old song by Tennyson, which has been revived and is heard over the radio so often nowadays, will remind you to step into the garden and look over your roses. You'll be compensated for the time you spend with them.

What is it to the nightingale, if there his darling rose is not? In vain the valley's smiling throng worship him as he moves along; He heeds them not—one smile of hers is worth a world of worshippers. They but the star's adorers are, she is the heaven that lights the star! (Lalla Rookh—Moore)



New Roses

Do you know that real rose "fans" literally vie with each other in the matter of having in their gardens the finest and most outstanding of the Novelty Roses.

For your information here is a list of the truly delightful new kinds.

Miss Rowena Thom. H. T. Brilliant dark rose-pink with a golden glow at base of petals. Immense flower. Margaret McGredy. Pernet. Scarlet suffused with orange. Mrs. Henry Bowles. H. T. Carmine and pink with orange at the base. Mrs. Lovell Swisher. H. T. Soft pink laden with salmon. An improved Los Angeles. Sir David Davis. H. T. Unfading deep glowing crimson with a touch of yellow at the base. Ville de Paris. Pernet. Gleaming buttercup-yellow. Wilhelm Kordes. Pernet. Nasturtium-red to salmon with golden base.

All these above we furnish while they last at \$1.50 each except the 1st and 2nd which are \$2.50 and \$2.00 respectively. (Making \$12.50 in all).

If you'd like to try out the entire 7 just send \$10.00 and ask for the "Fan set".

Simply Stunning

We've had the immense satisfaction over a 10 year period of seeing American Pillar, introduced by us—grow and spread in popularity till it became the most popular climber throughout England, to the trossachs in Scotland and as far South as the Riviera on the Continent of Europe, before it was really fully appreciated here. Now we're headed for another realization of "beauty broadcast" in the marvelous new and different type of Climber, Mme. Gregoire Staechelin.

It was awarded the Gold Medal at Bagatelle Gardens, Paris, June 11, 1927.

This was the first Gold Medal to be awarded to a climbing Rose at the world-famous test-garden for Roses at Bagatelle (Paris), France. Later, another Gold Medal was awarded to it at Saverne (Alsace).

Mme. Gregorie Staechelin has aristocratic parents (Frau Karl Druschki and Chateau de Clos Vougeot), and has inherited the best traits of both. The long-pointed buds are crimson at first as the sepals divide, then the firm outer petals show splashes of carmine as the flower opens, with an iridescent pearl-pink inside. It is richly perfumed and when full blown has a pleasant citronelle fragrance.

Tests in our Trial Garden show it grows 12 feet or more high and has large, disease-resistant foliage. The main stems shoot upright and all along will grow, the following year, side branches 12 to 14 inches long, with exquisite, full, fragrant blooms at the tips. These blooms come in June the second year after planting, and last over a long period, as they come in succession, and each bloom is long lasting.

There is no Rose grown to which we can compare this Queen of Climbers, the pioneer of a new race.

You can see this Rose shown in natural colors on page 5 in our 1929 Catalog "Star Guide to Good Roses".

You will be a leader in your neighborhood if you plant this new kind of Climbing Rose now. Price, while they last, \$5 each; 6 for \$25.00.



Roses in six weeks

If you will act promptly—send your order to us today—we will guarantee that you will have rose blooms in your garden in six weeks. Whether or not you have ever grown roses before, you will have success with "Star" Roses, because they are so strong and sturdy. They are grown out in the open, under the same conditions they will meet in your garden, and we guarantee them to bloom.

Get the 1929 "Star" Dozen Here they are!

★Radiance. H.T. Top of the list for years past, and still on top. ★Red Radiance. H.T. A sport of Radiance and its close companion. ★Rev. F. Page-Roberts. Indian yellow with reverse of petals carmine. ★Mme. Edouard Herriot. Coral-red and orange pink. ★Souvenir de Claudius Pernet. Sunflower-yellow. ★Etoile de France. Sparkling red. ★Betty Uprichard. Carmine and salmon. ★Souvenir de Georges Pernet. Oriental red and carmine. ★Mme. Butterfly. Pink and gold. ★Duchess of Wellington. Orange-lemon to yellow. ★Kaiserin Auguste Viktoria. White, tinted lemon. ★Mrs. Aaron Ward. Apricot to pink. Bought at single rate these 12 would cost you \$12.50, but, our price for the "Star" Dozen is \$10.50. Guaranteed to bloom within 6 weeks from date of planting.

(Use coupon below when ordering and we will send "Success With Roses" free with this set).

With your order we will send our catalog "Star Guide to Good Roses" for 1929—or we will be glad to mail a copy at once, free. Use the coupon—today!



Star Rose Growers
Conard-Pyle Co.
West Grove, Pa.
Robert Pyle, President

USE THIS COUPON NOW

THE CONARD-PYLE CO.,
West Grove, Pa. Box 24

Please send me the Star Dozen at \$10.50. I enclose check.

I enclose 25c for "Success with Roses".

Send "Star Guide to Good Roses" free.

Name _____

Address _____

P. O. _____



Garden Reminders



In gardening a date can only be approximated. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42).

The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each 400 feet of altitude. Latitude 40 approximates a line through Philadelphia, Pa.; Columbus, Ohio; Richmond, Ind.; Quincy, Ill., Denver, Colo.

NORTH

The Flower Garden Sow tender annuals. There still is time to sow seeds of hardy annuals.

Sweet-peas should be ready for staking.

Summer bulbs should go into the ground the end of this month.

Set out bedding plants about the 25th.

Disbud Peonies. Use liquid manure.

Perennials getting tall? Stake them. Better transplant some of them and get them into their permanent places.

Spring bulbs will be through blooming. Let the leaves ripen before you dig up the bulbs.

Give Rose bushes another application of bordeaux mixture. Give them a treatment of lead arsenate this month, too.

Continue sowings of Sweet alyssum.

Protection may come completely from Rose bushes late this month.

Get after those weeds.

The Vegetable Garden Begin sowings of tender vegetables.

Don't let insects get the better of Cabbage, Cauliflower and Sprouts.

Thin out your hardy vegetables.

Continue semi-monthly sowing of Peas.

Plant Potatoes.

Apply nitrate of soda to

Lettuce, Cabbage, in fact, any leaf vegetable.

Use your cultivator freely.

Make another sowing of Lettuce, Radishes and Carrots.

Set out early Tomatoes in the open, besides the coldframe-grown ones.

The Coldframe Protect seedlings during cold weather.

Harden off annuals.

Transplant seedlings as soon as they are ready for it.

Miscellaneous Some of your shrubs have finished blossoming. Prune them.

Keep mulch available for late frost.

Now is the time for all good gardeners to use their sprays.

Last call on planting small fruits.

Mulch Strawberries with clean straw.

Take cuttings of house plants and Chrysanthemums.

Be careful in pruning Maples. Do it while the buds are bursting.

Plant Beech, Birch, etc.

Application of bonemeal will work wonders with shrubs.

Evergreens transplanted last month should be kept well watered.

SOUTH

The Flower Garden Fertilize Rose beds. Don't let insects clutter the bushes.

For good blossoms keep Dahlia, Heliotrope, Chrysanthemum and Klondyke Cosmos terminal buds pinched back. Next month will be time enough to let them develop.

Sow perennial seeds for setting out in September. They should be put in a special bed, so that they may be protected.

Spring flowers are fading fast. Plan for fall.

It isn't too late to plant vines.

DON'T FAIL to get late annuals into their places where they are to grow.

Replace Alyssum, Sweet-peas and other early flowers.

Hardy Phlox will blossom this year, if you get it planted at once.

Dahlia tubers all in?

Why not try planting German Iris seed? Sow about the 25th.

The Vegetable Garden Start Celery. Give plenty of water and keep bed shaded.

Sow Lettuce in a box. Keep it wet and away from strong sun.

Sow Melons, summer Radishes, Pumpkins, Squash and Cucumbers.

Put in another crop of early Corn to take the place of the crop now ready and being picked.

Make another planting of Beans for later use.

Stake Tomatoes.

Miscellaneous Keep sprays at hand.

Keep busy with plow and cultivator to get rid of weeds.

Remove superfluous growth from trees as it appears.

Don't let knob-grass bother the Strawberries.

Watch for borers.

THE WEST COAST

Summer and fall perennials must be set out early this month or it will be too late.

Last call to plant Dahlias.

No time to lose in getting out young Pansy plants.

Have you taken Chrysanthemum cuttings yet? Take them from the new shoots of last year's plants.

Red spider will get your Sweet-peas if you don't watch out. Dig up Hyacinth bulbs.

Divide Violets and plant in newly fertilized beds.

Sow Hunnemanina in permanent location.

Set out Primrose, etc., for late fall and early spring.

Thin out annuals.

Old Smilax growth can well be cut away.

SPRING IS HERE!

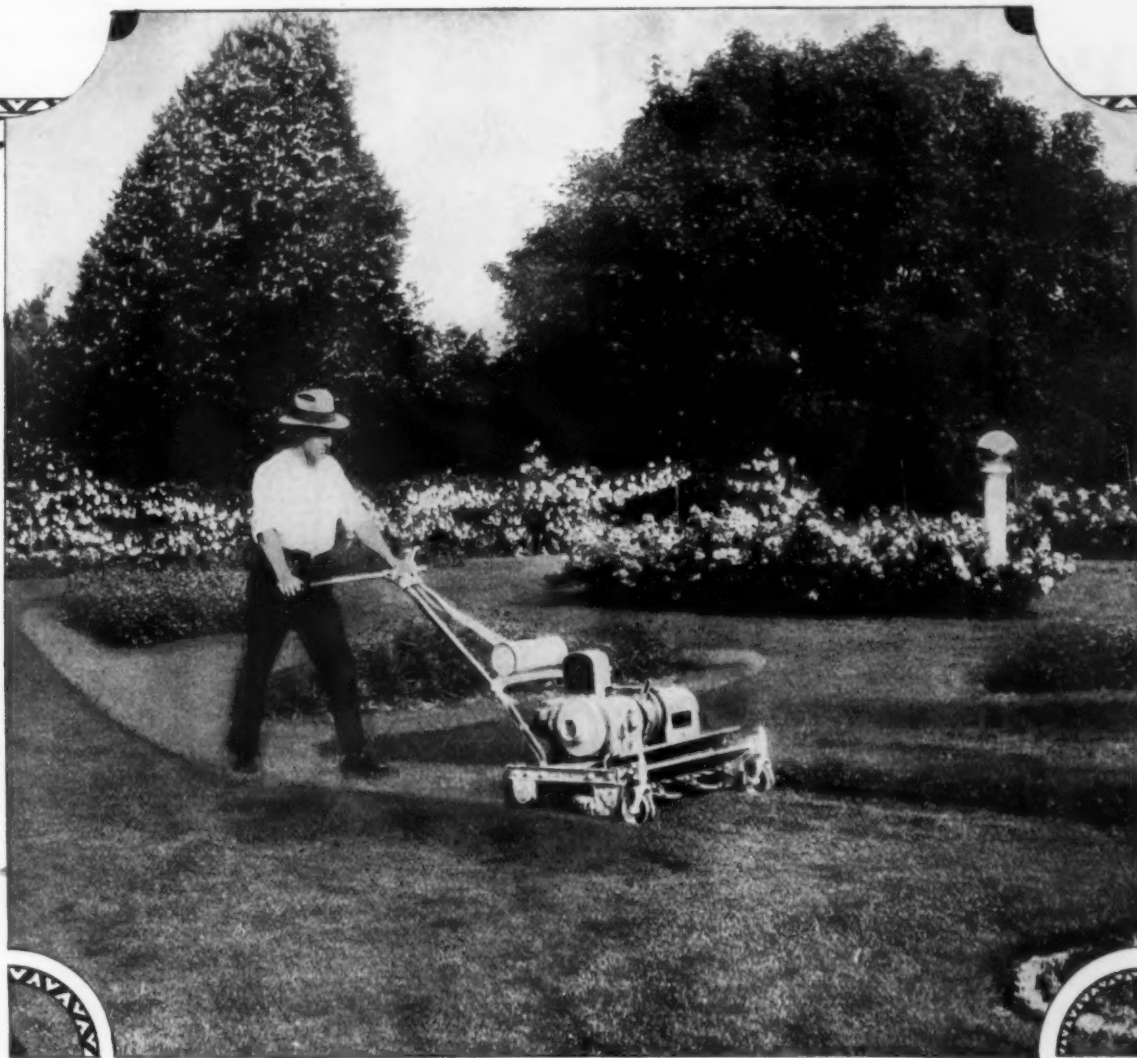
MAY, the month of sunshine, warmth and spring fever, is an extremely busy period for the gardener in the Northern states. It is the month of actual work, and many a backache will be the lot of the man with the hoe. But, just as April showers bring May flowers, May backaches will bring summer happiness and contentment in a worth-while garden.

Every gardener should have on hand a supply of sprays and insecticides. Follow carefully the spraying chart included in many seedsmen's catalogs. The spray makers also hand out good charts.

May, too, is the month for active war on weeds. Get after every solitary weed that dares poke its head above the ground, for a weed in time may well save nine next month.

In the South May brings much heat. Summer is well advanced and rain is generally scarce. It will be worth while to keep gardens well watered. Here again the battle against weeds is on in full swing. Celery, lettuce, cabbage and other leaf crops should be protected from the blazing sun.

In the far West, too, we must contend with a dry season. The period of heavy rains has passed, and we must conserve moisture. The garden should be thoroughly drenched from time to time, and irrigation should be followed closely by mulching and cultivation.



Coldwell "L Twin" Motor Lawn Mower and Roller. Rolls and mows simultaneously 4 to 6 acres a day. May be had with two 20-inch auxiliary gang units which increase its cutting swath to 60-inches, also riding sulky as special equipment.

Motor Lawn Mowers that re-emphasize Coldwell Leadership

NEVER has Coldwell leadership been more strikingly exemplified than in the new Coldwell Motor Lawn Mowers and Rollers, equipped with two-cylinder motors. Created by engineers famous for their contributions to lawn mower design, these new machines are being acclaimed everywhere as setting new standards of dependability and efficiency. A host of vital improvements—exclusive with Coldwell—insure superlative performance, trouble-free service and economical operation throughout the years.

A wide selection of styles and sizes in Coldwell Lawn Mowers is now on display at your dealer's. An expert will help you choose exactly the right machine for your lawn—and the best value for the amount of money you have in mind. Literature describing the entire Coldwell line will be sent on request. Will gladly arrange demonstration on your own lawn.

HAND
—
HORSE

SINCE 1867
COLDWELL
DEPENDABLE LAWN MOWERS

GASOLINE
—
ELECTRIC

COLDWELL LAWN MOWER COMPANY, NEWBURGH, N. Y., U. S. A.



Cherry Tree

Lower Garden



Your New Hose!

FOR your garden's sake—and your pocket-book's—let your new hose be Bull Dog Cord! It is hose that will stand more punishment without weakening than any hose you ever saw! You can tie it in knots and it still keeps its round, free waterway—it never kinks! It's a *moulded* hose—built like a cord tire—alternate layers of live rubber and tightly twisted and braided cotton cords vulcanized into one inseparable wall—strong yet astonishingly flexible.

The better garden implement dealers carry Bull Dog Cord. If your dealer is not stocked, send us his name and address—and yours—on a postcard. We will send you a Free Illustrated Booklet describing Bull Dog Cord, and tell you where you may secure this hose quickly.

Charles G. Adams
Architect

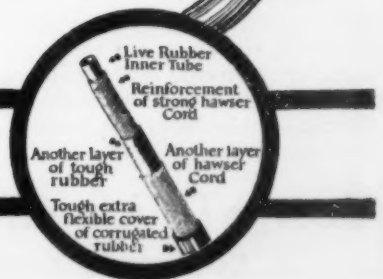
BULL DOG CORD

Garden Hose

A PRODUCT OF THE

BOSTON WOVEN HOSE & RUBBER CO.
CAMBRIDGE, MASSACHUSETTS, U.S.A.

Built Like a Cord Tire



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Day-lilies.
page 296)

Dormant Trees and Plants from the North



MID-APRIL and Spring just beginning up here in Vermont. Mezeron and Shadbush in bloom and some wild flowers like Hepatica and Arbutus are calling one to the leafless woods. But the trees and shrubs are still dormant and for another month we will be sending them to our friends farther south where growth has started to such an extent that transplanting may not be advisable.

Of course, we want you to have our catalog which lists nearly a thousand varieties of trees and plants, among them our finest native ferns and flowers. Just to give you an idea as to what you will find listed, here are a few varieties which we offer.



Lupines are always beautiful

Korean Spirea: (*Spiraea tricornata*) A new spirea similar to Van Houtte but much later in blooming. 2-3 ft. plants **\$1.00 each.**

Viburnum Carlesii: Mayflower Viburnum. A viburnum with flowers of Arbutus-like form and fragrance. 12-18 in. plants **\$2.00 each.**

Japanese Anemones: These wonderful fall blooming Anemones must be planted in the spring and our strong field grown plants in red, white or pink varieties are only **30c. each, \$2.50 a dozen.**

Lupines: Pink, blue or white. Field grown plants at only **\$2.00 a dozen.** Lupines seem to be scarce but we have a good lot.

Latham Raspberry: A very large attractive variety, perfectly hardy but succeeding farther south than many kinds. **\$1.00 per 12, \$5.50 per 100.**

And besides the above we would like to tell you about our Flowering trees, Evergreens, Phlox, Ferns and ever so many other plants. We can do this through our catalog. Send for it now.

George D. Aiken, Box V, Putney, Vermont
"Grown In Vermont, It's Hardy"

Japanese Weeping Cherry: (*Prunus subhirtella pendula*) The wonderful pink flowered weeping cherry of Japan, as illustrated above. 4-5 feet trees **\$5.50 each.**

Carolina Rhododendron: Beautiful two-foot nursery-grown plants of this light pink, early flowering Rhododendron at **\$3.50 each.**

Daphne Cneorum: A most charming low growing evergreen shrub bearing throughout the season intensely fragrant pink flowers **75c. each, \$7.00 per 10.**



The charming Anemones provide an abundance of fair flowers.

Planting the garden close to the house

Continued from page 292

Cone-flowers and Spiked Veronica; and the faithful standby of every garden, phlox, in lavender, white, and pink, contrasted with the deep velvety reds and purples.

In the far corner, where the over-arching boughs of Elm and Cherry trees cast their shade over the garden, the scheme is varied by the introduction of certain plants tolerant of shade, including the early English Polyanthus, or many flowered Primula, and some of the newer Spireas.

Several varieties of bulbs are brought in here, the golden umbel of the Crown Imperial followed by the brilliant orange sprays of Montbretia, and the dear old fashioned Tiger Lily. A group of tall white Snakeroot from the woods is most effective against the dark background of Hemlock.

Scattered everywhere are Foxgloves and Canterbury-bells, their lovely pastel shades of blue, white and pink, and soft creamy buff, added to the deeper pinks and crimson of the Sweet-william, make the June garden an enchanting sight.

Seeds of the biennials should be sown in May or June of one year, for flowering the following June. They are inexpensive, costing from 10 to 15 cents per packet for separate colors. They may be sown in coldframes and transplanted into rows in the vegetable garden on a cloudy day.

Canterbury-bells do best when lifted late in the autumn and wintered over in coldframes. Care should be taken that the frames are tight, and they should be covered over with straw or hay to keep an even temperature. Foxgloves and Sweet-william may be planted into their flowering spaces in autumn and protected with salt hay over winter.

As soon as the Canterbury-bells have been taken from the frames, the soil should be raked over and seeds of Marigolds, Petunia and Ageratum sown in their place. The only expensive annual used is the Heliotrope, which has to be bought in 3-inch pots from the nearest reliable florist. The plants cost about 25 cents each, but not more than thirty are needed for this garden.

The fall garden is rendered in shades of blue and gold. The deep blues and purples of Petunia and Heliotrope are used as a contrast to the lighter shades of Ageratum Blue Perfection, and the Eupatorium Heavenly Blue. Eupatorium although classed as a perennial, is of such a spreading habit that it needs to be lifted and re-set in neat bunches every spring. In September when it has attained its full bloom, it is exquisite and is everywhere used as the tonic note to bind together and harmonize the varying tones of gold, mahogany, white, blue, and purple.

In and about the garden

Continued from page 286

Idaho, is in the middle of a well developed irrigation section, which condition does not hold true for some other sections of the state.

Many sections of the state are somewhat higher than Caldwell, and the date of bloom will be considerably later than in the case cited.

I still feel, in view of the average conditions for the state of Idaho as a whole, that section E is the proper classification for the state.

It is obviously impossible, in a chart covering only two pages, to go into more detail than was done, especially to differentiate between the many widely diverse sections of a particular state. Charts for separate states might show considerable variation. In fact, if a chart was made for Idaho, there would be at least six weeks' difference between the date for the warmest section and that for the coldest section.

As for the eastern part of Oregon, the records show that late spring frosts have occurred as late as June 20, the average last frost being June 5, using as a basis again reports for the past twenty years.

I can think of nothing more pathetic and discouraging than to plant seeds a little early and then have a late frost kill the tender shoots and spoil all the hard work of preparation. Therefore, unless we use coldframes or hotbeds, I prefer to be safe rather than sorry.

SOMETHING LIKE A LILY!

Mrs. Charles W. Ogg of Newton, Iowa, tells me of her success in growing the Gold-band Lily (*L. auratum*) which seems to take kindly to that region. But lest we might set the standard of our own satisfaction too low, she also sends me a photograph of that same Lily in New Zealand. It carried 184 blooms, is 7½ ft. tall, and the actual cluster of flowers is 3½ feet. I fancy Mrs. A. R. Smith of Gestowe, N. Z. has the champion Lily—and in that part of the world it flowers in January. The Gold-band Lily has a tendency to throw a flattened stem, or rather an adhesion of several stalks, and so achieves an apparently extra profusion of bloom. This malformation is known as fasciation.





Peony
Prices
Greatly
Reduced

*"Like Great Wild Roses
With Hearts of Gold"*

A Superb Collection of Peonies

personally selected by Mr. Harris from the world's best during the past 25 years that include all Peony shades of double, single and Japanese types. Make your selection in the field during the blooming season which will be at its height from the 8th to the 20th of June, when you can obtain just the shades and harmonies of color that you desire.

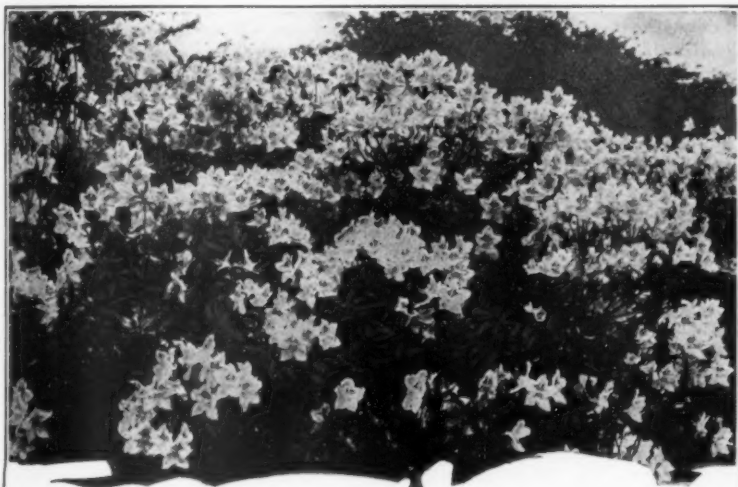
A Superb Collection of Iris

both Japanese and German. The latter are at their height of bloom in May 20th to June 1st. The Japanese are at their height of bloom from July 1st to 10th. The marvelous colors of the Iris will tempt any flower lover and their low prices make them more attractive than ever.

Visitors welcome every day but Sunday—Catalog FREE

On the Saw Mill River Road, 3½ miles north of Elmsford

S. G. HARRIS Box A Tarrytown, N. Y.



Gorgeous Colors from the Orient

Without a rival for brilliancy of color and quantity of bloom, Azaleas stand first in the gardener's affection. From mid-April to late June the Azalea garden resembles the colorful scenes of the Orient.

Our collection includes *A. poukanensis* from Korea; *A. mucronulata* and *A. mollis* from China; *A. pontica* from Europe; *A. vaseyi* our native American variety, and several others that appeal to gardeners who desire the new and better flowering shrubs. Full descriptions, sizes and prices are given in the new edition of

Landscapes and Gardens

which has been completely revised for the benefit of our friends. Helpful planting directions, accurate descriptions of trees and plants, and many illustrations, make the catalogue of great value to gardeners. A copy awaits your name and address.

WYMAN'S FRAMINGHAM NURSERIES

Box H-1

Framingham, Mass.



A Twist of the Wrist Guides it

**"Two Blades of Grass Where
But One Grew Before"**

Making two blades of grass grow where but one grew before, an expression that has strayed far from the point of its origin, is just as apt, however, as when it first came into the English language.

There is no better way of making two blades of grass grow where but one grew before than by frequent and regular cutting with the Moto-Mower, thereby thickening the sod by forcing the growth of new blades.

And, with the Moto-Mower, this task becomes easy—in fact a pleasure. The back-breaking job of pushing a hand mower invites neglect, whereas the easy handling, trouble-free operation of the Moto-Mower turns work into mere play.

The Moto-Mower is made in three sizes, 27-inch, 21-inch and 18-inch cuts, the latter at a popular price. Mail the coupon below for the Moto-Mower catalog—the new one.

The Detroit Model Moto-Mower can now be equipped with a sickle bar for weed clipping at small extra cost. It can be attached by removing one nut from the tie rod.

The Moto-Mower Company

3249 E. Woodbridge St.

DETROIT

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MICHIGAN

THE MOTO-MOWER COMPANY
3249 E. Woodbridge St., Detroit, Mich.

Please send the catalogue to:

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A Hundred Matchless TULIPS



Ten Most Exquisite Darwin and Breeder Varieties

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 finest bulbs, of these most desirable kinds, in
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 Catalogs have been prized by garden lovers for forty years. Send for
 your 1929 copy today. Get your bulb orders in early.

Established 1889

ELLIOTT NURSERY CO.

904 Magee Building

Pittsburgh, Pa.

Does your child need a garden?

Continued from page 198

The box is now ready for the loam. Any florist can supply you with good soil. Perhaps you can get enough from some old pots stored away in the cellar. At any rate, fill the box up to about an inch or a trifle less from the top. Pack it down firmly.

The soil, of course, should be sandy, in order to permit the tender roots of these tiny seedlings to push their way through the earth.

Having firmed down the soil solidly, take a piece of stiff cardboard or a ruler or any other hard surface with a thin edge. With the edge make a slight depression or groove lengthwise, about an inch from the front of the cigar box. About an inch away make a parallel groove, and continue until the entire box is divided into shallow ridges about an inch apart.

Into these ridges, or drills, the seeds should be placed. As the average child prefers a variety of flowers to one or two kinds, he will require only a few seeds of each sort. Perhaps two drills for a variety will be sufficient. On that basis, five or six boxes should be enough for a real garden, with several of the most popular annuals and vegetables. The quantity, too, will depend on the age of the child.

Tiny markers may be placed at the ends of the rows, with the name of the seeds written in indelible ink on linen or wood. A simpler method, however, is to give each box a letter, and every row a figure, marking the letters or figures on the outside of the box. In a notebook or on a sheet of paper that is conveniently available, jot down the corresponding identifications, noting opposite the marks the names of the seeds sown.

Having dropped the seeds into the depressions, cover them with a little soil pushed back from the edges of the rows. Now level the soil again and water lightly with a fine rose. If no rose or sprinkler is available fill a basin with water, and place the box in the basin, not quite up to the top. Let the bottom of the box get a thorough wetting, and then remove it from the basin.

Place some blotting paper over the soil, and put the boxes away in a dark corner of the room, where there is plenty of heat. After a few days you may put the boxes near the sunlight, and remove the blotting paper, watering the soil lightly once a day. In a few days the seeds will begin to germinate, and before long you will have seedlings.

When the seedlings grow larger, they should be thinned out and placed in other boxes, so that they may have

room to develop. When the weather gets warmer, they may be transplanted to the place in the garden allotted them.

In my community last summer several children in one street organized a garden club, every child pledging himself to grow at least three kinds of flowers and two kinds of vegetables. They compared notes, helped one another with their gardens, and in July staged a flower and vegetable show of their own, the parents serving as judges and putting up small sums of money as prizes.

I found in another community a group of boys who had formed their own club and a group of girls who had organized another. Each club had its own competition, and the best collections of each group were entered in a general flower show. Again the parents had donated small sums of money as prizes, and three outsiders were invited to serve as judges. The winners were photographed with their displays and the picture published in the local newspaper.

There are dozens of similar ways in which the children may be kept interested in their gardens. You know, a dollar is a lot of money to a boy or girl of ten or twelve.

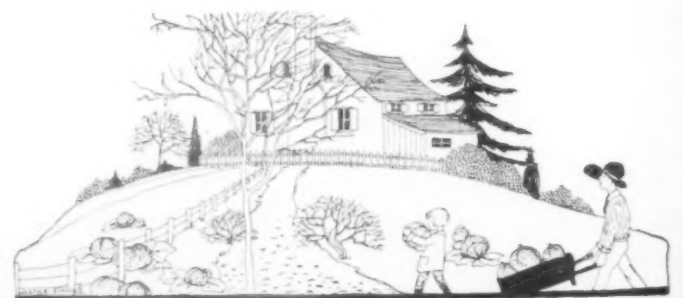
And, one thing more. It makes any youngster proud to see a vase full of his own flowers on the living room table, or some of his vegetables on the dining room table.

Among the annuals which are easily grown and which will grow with the care given them by the average child are China Asters, Calendulas, Calliopsis, Cornflowers, Gaillardias, Sunflowers, Petunias, Marigolds, Nasturtiums, Hyacinth Beans, Morning-glories and Cardinal Climbers. Annuals which will grow in partial shade are Schizanthus, Godetias, Pansies, Snapdragons, Sweet Alyssum, Torenia, Nemophilas and Butterfly-flowers.

Vegetables which may be started in cigar boxes include Beans, Beets, Carrots, Peas, Radishes, Tomatoes, Lettuce, Cabbage, and Parsley.

Add to this list almost everything that can be started in a coldframe, for cigar boxes, after all, are tiny coldframes.

If you would keep your children out of mischief, if you would arouse the love of growing things, if you would give them a start in botany and if you would give them the happiest summer they ever have had, promise them a corner in the garden and help them start. It costs little and the returns in health, instruction, and happiness are large.



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CARS wear out and have to be replaced. But one of our Glass Garden Sunning Rooms is a life-time joy. Its upkeep is practically nothing, yet its dividends are declared daily.

Every member of the family participates. There's so much more to the pleasures of owning one than you suspect, that am just wondering why you don't send for that interesting book of ours called: "Glass Gardens As We Know Them." Glad to send it. In requesting one, you can be assured of a freedom from being annoyingly "followed up."



They chanced to see one as they were eating in the diner of the Century Limited. When they reached their destination, wired its location and asked its cost. Two more wires went back and forth, and the complete greenhouse was ordered. In exactly sixty days, the flowers were blooming in it.

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This is a complete eighty-eight page descriptive handbook illustrated with many beautiful color plates. You will find within a complete source of information as to the planting and practical care of your trees, shrubs and flowers.

In it we have continued to eliminate all inferior varieties and have listed only those that have proven to be the most desirable—with the addition of a few new and rare introductions which are of real value.

In brief, this handbook was prepared to help you. If your name is not on our mailing list—send it in at once and we will mail you a copy with our compliments.



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The Cooper Power Mower propels itself easily over level or uneven turf, and is equipped with disappearing traction lugs for climbing hills and terraces. In one operation it rolls the lawn as it mows the grass. Guiding is the only physical effort required of the operator.

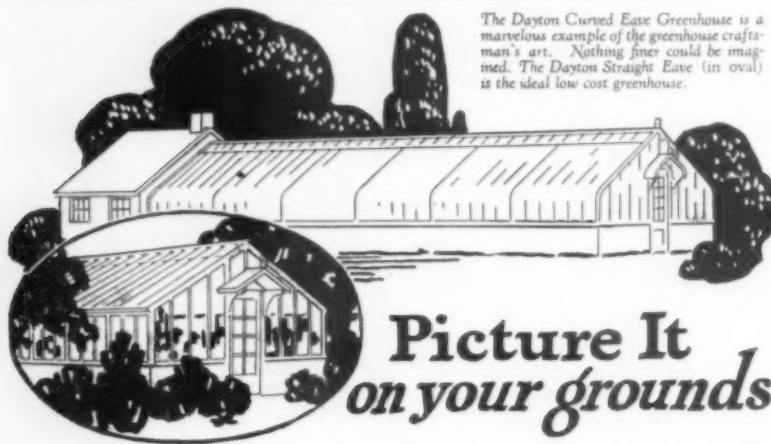
Specially designed to trim close to walls, fences and curbing. For working around trees, flower beds and shrubbery the cutting blades may be operated independently of the traction roller, or remain idle while the machine transports itself from one location to another. The

Cooper Mower has an all-steel shock-proof frame, and is powered with the world's most popular 4-cycle gasoline motor. Become acquainted with the many other Cooper features. Write today for detailed description and name of the nearest Cooper dealer.

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PICTURE this entrancing jewel of a greenhouse on your grounds. Think of the fairyland of exquisite blooms it will shelter for you all the year 'round! What joy to have a little kingdom of perpetual Springtime—all your own!

But why dream of it when its attainment is so easy? Dayton Greenhouses are superb creations of lasting beauty and economy. They are available in different designs and sizes to fit your location—and your purse.

The Dayton Straight-Eave Unit-Built Greenhouses range in price from \$500 to \$3000. The Dayton Curved Eave Greenhouse models are priced from \$2500 upward. We will gladly, without obligation submit an estimate on the house you have in mind. No representative will call save on request from you. The Greenhouse Book will give you detailed information.

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The seasons in a Southern garden

Continued from page 200

New Orleans has always favored masses of green against walls for the first gardens of the Vieux Carré were courtyards. The early French houses had the business establishment below, the family quarters above. The house was flush with the street, with galleries or balconies extending out over the *banquette* or pavement. A paved passageway led from the street to the inner court and home, and this secluded space was a thing of beauty. The windows of the home looked out on the court—long rows of windows, often slightly arched, and with little window-size balconies of wrought iron. To-day many of the courtyards look much as they did years ago. Lamps of wrought iron and old cast iron benches and tables and chairs; quaint old Spanish jugs, which hold the sharp, jagged spears of Spanish Bayonet; tall Bananas, Oleanders, Crepemyrtle and Pomegranates; here is a typical New Orleans courtyard.

The influence of these courtyards is seen in the modern gardens. There is a tendency to enclose backyards with high trellises covered with vines, or with clumps of evergreens massed to make dividing lines. The yellow Jasmine is a favorite, for it blooms during January, February, and March, the months when color is scarce in the garden. Its sprays fall gracefully from garages or wash-sheds—and who looks for a tin garage behind the glory of Jasmine? Once started, the Jasmine requires practically no cultivation, and it will cover high fences in a remarkably short time, or grow plant-fashion in careless golden beauty. The "Rosa Montana," most popular of blooming vines, is not evergreen, but its deep coral color is so lovely that no Southern garden is complete without it. It is particularly beautiful in the old courtyards, for the sprays of deep rose against the dull brick and broken stucco of the walls is charming. Fruiting Olive is as much a part of the Southern garden as Cape Jasmine, and whether the garden is in the city, the small town, or along the Gulf Coast, the typical flowering shrubs and small ornamental trees and bushes are preferred to flower beds of annuals.

The raised bungalow of the far South requires masses of shrubs to break its high basement line, and is probably responsible for many choices of plants. The basement floor is flush with the ground, really a first floor which contains furnace, wash-tubs, servants' rooms and sometimes the children's playroom. The raised bungalow is almost as high as a two-story house, but the lower part is straight and plain. Unless the garden is terraced, or masses of shrubs planted to give irregular lines, this comfortable plan of house is not attractive. These tall, stucco bungalows lose their high lines when massed with green, or broken by trellises covered with Bignonia or the Lady Banks' Rose. This is perhaps the loveliest of the climbers, for its wax-like foliage and graceful shoots are adornment in themselves, and when the clusters of small, yellow flowers, eight or nine to a cluster like a

French bouquet, are open, the Rose is indeed a joy to behold.

The Ficus is the quickest growing vine to cover rough surfaces—a small-leaf vine which grows on stucco in very close pattern, and will hold its leaves through freezes.

Of course, the Southern garden has its annuals, but somehow they seem incidental. Roses are plentiful: the pink and red Radiance Roses bloom throughout the year, and are the most popular of Roses. The conventional bed for Roses is of half river-sand and half manure, and every fall this mixture is added to build up the bed. The scale insects frequently attack the Roses, and sprays are necessary. A solution of lime-sulphur, one quart to eight quarts of water; or miscible oil, one part to fourteen parts of water, will keep the plants free of pests, if sprayed freely. The enormous caterpillars are the worst enemies of summer flowers, and sometimes it seems that they thrive on sprays. But they are conquered, or at least kept off, by tobacco dust or spray.

The question of pruning is constantly before the Southern gardener. We have the modern haste to want our garden at once, and plants grow so rapidly that they are soon crowded. We leave for the summer, and come home to find our plants growing in all directions, and while we do not want the carefully shaped shrubs of some middle-aged gardens, neither do we want a wild growth. The time to prune flowering shrubs is immediately after they stop blooming. This is especially wise for the many shrubs that flower in the spring. If pruning is postponed, hot summer weather catches us unaware, and it is too late to prune before fall. If the plants are cut back in the spring, they have their summer growth uninterrupted, and are ready to bloom on new growth. Poinsettias are cut back as soon as their blooming season is over, cut very far back, for they grow entirely new for next-year's blooms. Often the new growth must be cut back again in June, or they will grow to the house eaves. It is hard to find a time to prune the Roses, and gardeners disagree. But when they stop blooming for a breathing space around Christmastime, most gardeners trim off the weak growth, and cut back for the new stock to put out for the spring.

No story of gardens of the South is complete without mention of the Azaleas in Mobile. Until one sees Mobile in March, the beauties of Azaleas are really unknown. There is something in the soil—or is it the air?—of Mobile that works magic in Azaleas, and they grow to enormous size. There are bushes thirty feet in diameter, and numbers of them that it would be impossible to put in a room of a modern house. They bloom profusely, so that scarcely a leaf is visible for the blossoms, and the shadings are exquisite. There are dozens of shades: white, white with markings of pink, rose, salmon, yellow, lavender and purple; the solid colors with the markings of white, and the ones that are a mass of deep color. Every (continued on page 310)



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Perfect Flowers**
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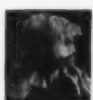
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It is well praised in The 1928 Dahlia Honor Roll of the American Home magazine of December which states: "It was our privilege to grow this flower and it gave us a real thrill. The blooms are like Elite Glory."

And as late as October 16th, Derrill W. Hart wrote the following: "It gives me real pleasure to feature what I consider a fine dahlia; Dr. Carman has been good right through the season."

1929 catalog now ready, with fertilizer chart and soil texture test additional.

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It is filled with information for Dahlia growers, and lists many of the world's best Dahlias, including some of the outstanding novelties for 1929. We grow our Dahlias in one of the best locations in America for the production of clean, healthy, even growth. Ask those who have seen our farms.

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SAVO All-Year-Around Steel Flower Box

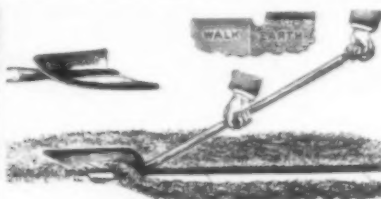


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Trim the ugly, straggling grass along your sidewalks and garden paths with the IMPERIAL Lawn Edge Trimmer and you will be surprised at the wonderful improvement in the appearance.

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The seasons in a Southern garden

Continued from page 508

shade of pink and of purple is seen. While the Azalea is of slow growth for the first few years, the methods of cultivation now used speed up growth. Some of Mobile's Azaleas are over eighty years old—at least the oldest inhabitant will tell you that they were there when he was a boy. In the older gardens the enormous Azaleas grow and bloom without interruption or fertilization, but the modern gardener tells us that the Azalea requires much water, and the slowness of growth in the past was often due to neglect. In the fall the roots are banked with moss,

which is said to be excellent for the growth. But there is rather a mystery about it all: the Azaleas continue to grow marvellously in Mobile, but once moved from the magic, they stay "as is" or even dwindle! Azaleas in New Orleans seem dwarfs after seeing the wonders of Mobile, and even those determined souls who have their Azaleas moved in carloads of Mobile dirt, to insure their growth, are sometimes disappointed.

But after all, there's rarely anything disappointing about a Southern garden, for if one thing fails there are so many possibilities to take its place!

Common sense about watering

Continued from page 201

But the average gardener to-day has access to unlimited supplies of water and he has two methods of getting it to the points required. The hose attached to the house faucet will, if there is any pressure at all, convey the water any distance, either up hill or down hill. The question to be settled is when should the hose be used and how much water should be applied?

If great heat prevails, it may be accepted as a fact that most garden plants are in need of moisture inside of a week, therefore in prolonged dry spells, if much ground has to be watered, it is essential to sectionize the plot and give each section a thorough soaking on different days. What constitutes a good soaking? Well, just consider that an ordinary rain must continue for many hours before it will penetrate to the lower subsoil, and you will realize that half an hour's hosing with a spray nozzle cannot accomplish much. And yet to the active gardener who is anxious to do something else equally as important, long hours of hosing are deadly dull. Thus some form of distributing spray nozzle that will cover a considerable area, and which can be left alone, is an asset.

The ordinary screw nozzle which can be made to throw a single jet or a fine spray is useful, for it can be hooked on to a fork handle or attached to a special holder made for the purpose, and it will in an hour or less thoroughly soak a fair sized area. Such a nozzle is particularly useful for borders, etc. The general run of whirling sprays, fan sprays, and the like, are only really effective on lawns or in spots where neighboring plants do not interfere with the spreading water. On lawns and open spaces, such sprayers are valuable as they cover perhaps several hundred square feet.

But in the vegetable and flower garden, there is no simpler and better means of watering than one or other of the overhead systems. Those who care to spend the money can have installed along the edges of paths, etc., lines of nozzle fitted pipe that

will take care of all the watering. In the flower garden the overhead pipes mounted on all tall struts, as are in general use in market gardens, nurseries, etc., are somewhat objectionable, though the vegetable garden can be so irrigated. But in the ordinary small garden one can reduce the labor of watering to a minimum by the combined use of rubber hose and a portable overhead sprinkling system. Personally, I can cover the rather irregular acre patch I possess by the use of 200 feet of hose and a portable iron pipe system 50 feet in length. The hose with its spray nozzle can cover the beds and rock garden adjacent to the house, the nozzle being shifted periodically while the remainder of the garden can be covered in 50 ft. wide patches by the portable pipe. This latter consists of sections screwed together and mounted on iron rods pushed into the ground. Connected up with the hose it is easy for two of us to shift the whole outfit as needed and while it is operating we are able to attend to some other job elsewhere.

It is immaterial when one waters by the overhead method, for if the sun happens to be shining, the fact that the water is thrown up into the air and wets every part of the plants and soil reduces the temperature all over that particular area so that there is no scalding of foliage through rapid evaporation.

The amateur gardener who performs his leave home each morning can fix his portable pipe and set it going with instructions that the water be shut off an hour or two later. In the evening when he comes home he can hoe over the watered patch and so conserve the moisture treating different parts of the garden similarly from day to day. By the use of a portable system the home gardener simplifies what becomes a real bug bear in dry weather. As an old stager I have had my fill of watering but candidly I would much rather have a comparatively dry summer than one that calls for no watering, for a wet summer is the worst bugbear of all.



garden pests



quickly destroyed


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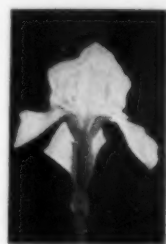
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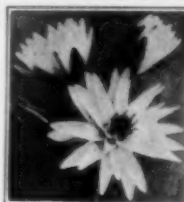
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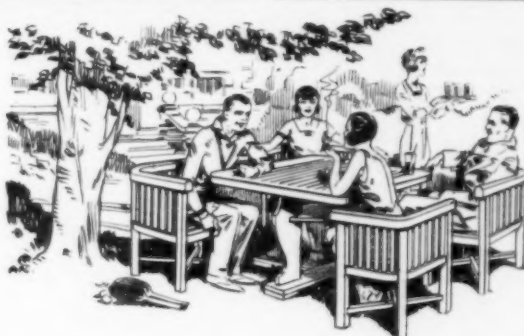
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