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The Deltagram

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VOL. 14, No. 4

MARCH-APRIL, 1945

TEN CENTS



- FOLDING LAWN CHAIR
- CLOTHES HANGERS
- ARM CHAIR FROM WALNUT
- BIRD HOUSES ● DESIGNS



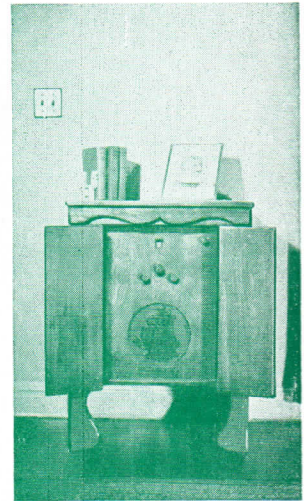
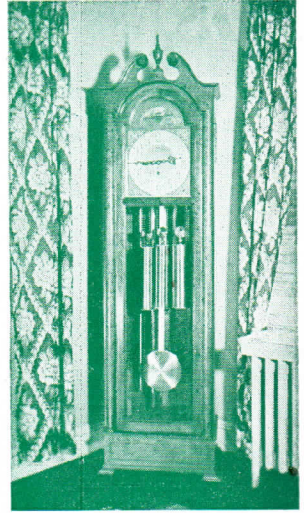
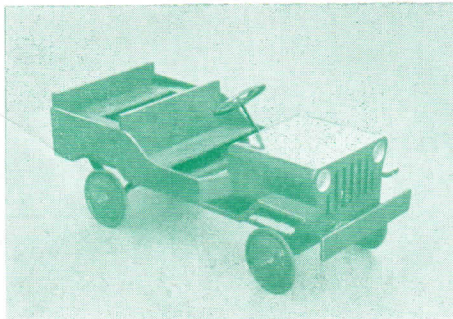
With DELTA CRAFTERS

★ Mr. George E. Hammer, of Detroit, Michigan, does not have to worry where his daughter is when the sand box is out, which he made from the Delta plans featured in the "Toys, Games & Playground Equipment," book. Miss Hammer was too busy to even give a little smile while the picture was taken.

★ The banjo clock, grandfather's clock, and radio cabinet are the handiwork of Alfred C. Kuhule, of St. Albans, L. I., New York. The radio cabinet is his own design to harmonize with his living room furniture. All pieces are well made, and the finish, we're sure our readers will agree, is among the best.

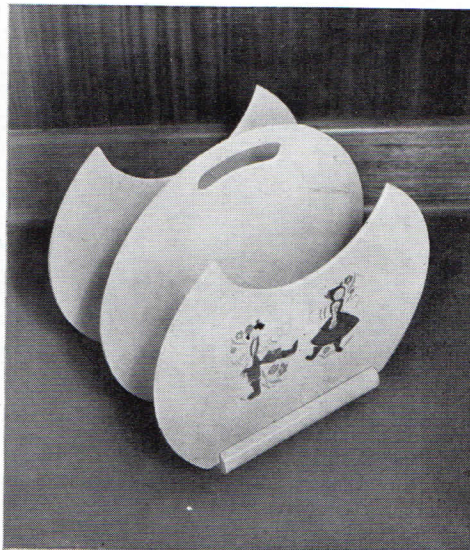
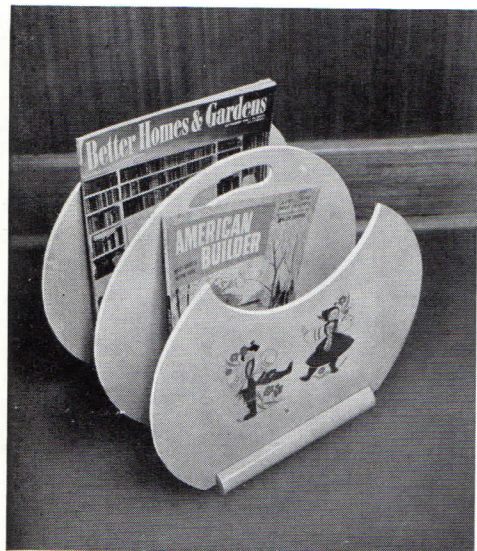
★ Here are the results of enlarging the Delta Jeep Plans. Mr. Clark A. Valentine of Habana, Cuba, took a sheet of tin plate, the pedals, wheels and steering wheel of an old toy auto and two paint can covers accomplished this youngster's toy that easily accommodates two small children. We're sure any youngster would go for this one.

★ The most unusual piece of inlay work we have seen for a long time. Dr. H. O. Sheldon, of Willmar, Minnesota, has spent two years of spare time effort in making up this novel card table top. The same color scheme utilized in playing cards has been carried out in the design. The material used was 1/16-inch Catalin, and three gross of fine jewelers blades. Now take out your reading glasses and study it very carefully. Not bad—not bad at all, Dr. Sheldon.

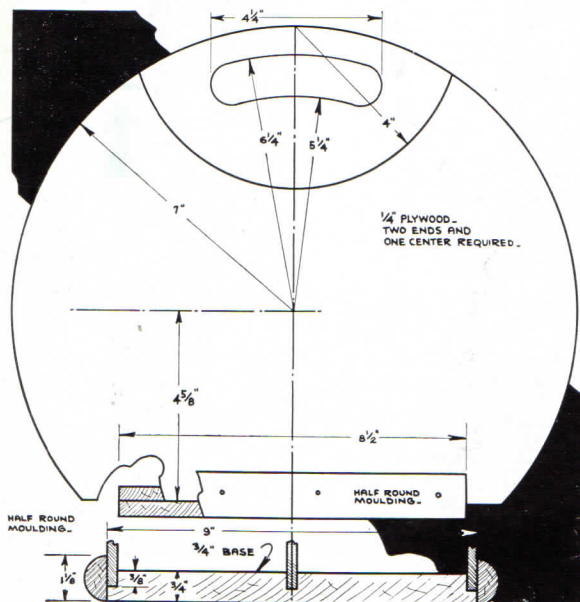


THE DELTA GRAM

★ E. G. HAMILTON—MANAGING EDITOR
★ A. M. WARKASKE—TECHNICAL EDITOR



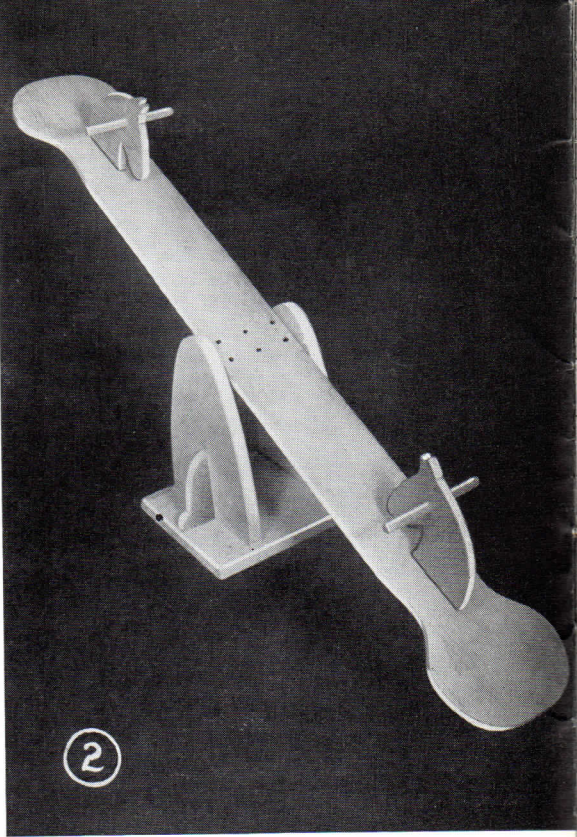
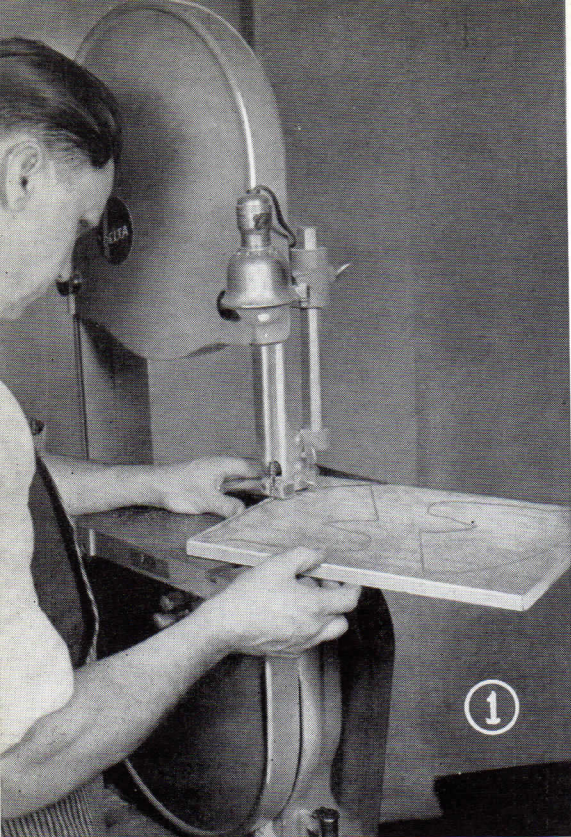
Modern MAGAZINE RACK



☆ THIS modern version of the much used magazine rack can be built from a few pieces of scrap wood.

Three pieces of 1/4" plywood 14" square are cut to form the center and two end partitions. One piece of 3/4" solid lumber 8 1/2" x 9" forms the base. Cut the grooves to take the partitions on the circular saw. A piece of half-round moulding 17" long makes the end strips, see section drawing at the left. The parts are sanded and assembled with glue and brads.

Seal with one or two coats of shellac and then brush or spray on two or three coats of enamel of any color you desire. Decorate with decals such as the peasant figures shown in the photographs.



TEETER TOTTER

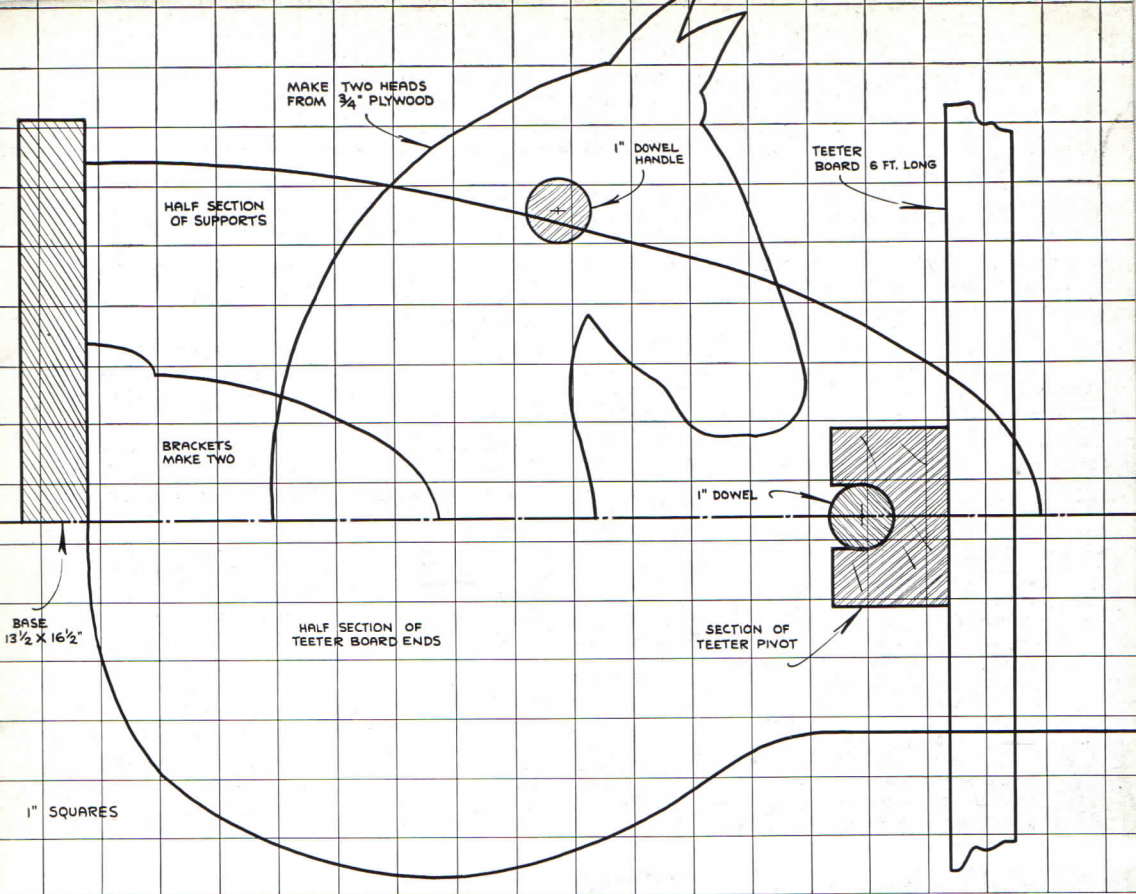
☆ THIS sturdy teeter board makes the small children happy both indoors and out. The material used was hardwood such as birch but pine will do almost as well.

Band saw the various pieces to the correct shape and sand off all the sharp edges. The horses heads were cut from $\frac{3}{4}$ " plywood and fastened with glue and screws to the teeter board.

The center pivot block is cut from hardwood and fastened to the underside of the board.

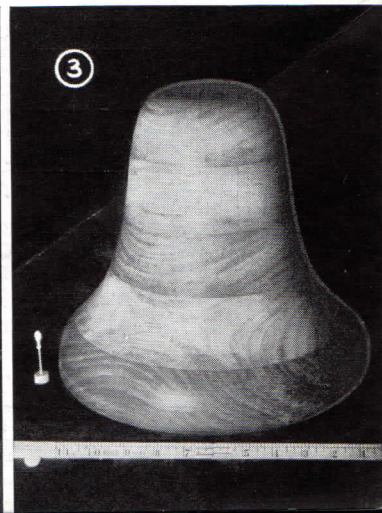
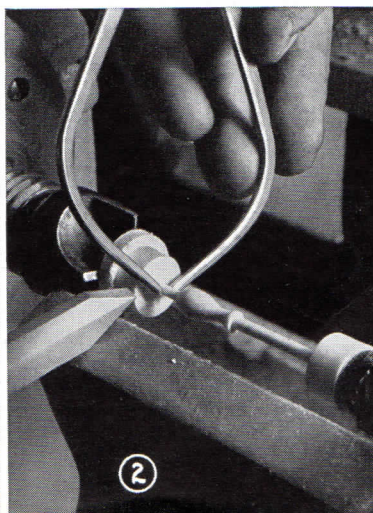
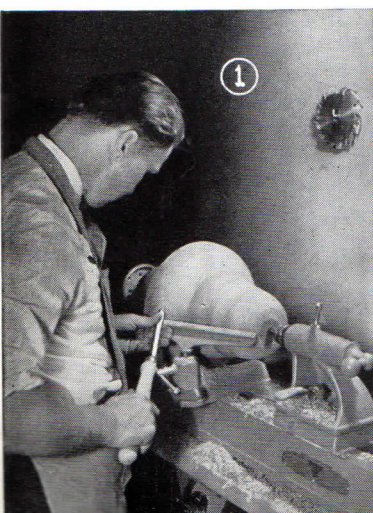
The base is fastened together with glue and screws and the cross support that the teeter board pivots on is a 1" hardwood dowel.

Seal with one or more coats of shellac and then leave natural or paint to suit.



THE LARGE AND SMALL OF IT

☆ THE PHOTOGRAPHS below show two extremes in wood turning that are possible on the inboard end of your 12" lathe. The large turning was a flag pole base turned from glued up sections. The bottom was then hollowed and filled with lead. The other turning was a belaying pin for a ship model. The belaying pin was turned down to 1/16 of an inch in diameter. This is a typical example of the adaptability of the Delta lathe to any home workshop job.





The cigarette box is made up of five layers of walnut and maple. The finish is natural, with white shellac and rubbing wax.

This cigarette box will hold about two packs of regular size cigarettes. For king size, one more layer of $\frac{3}{4}$ " stock should be added for the correct length.

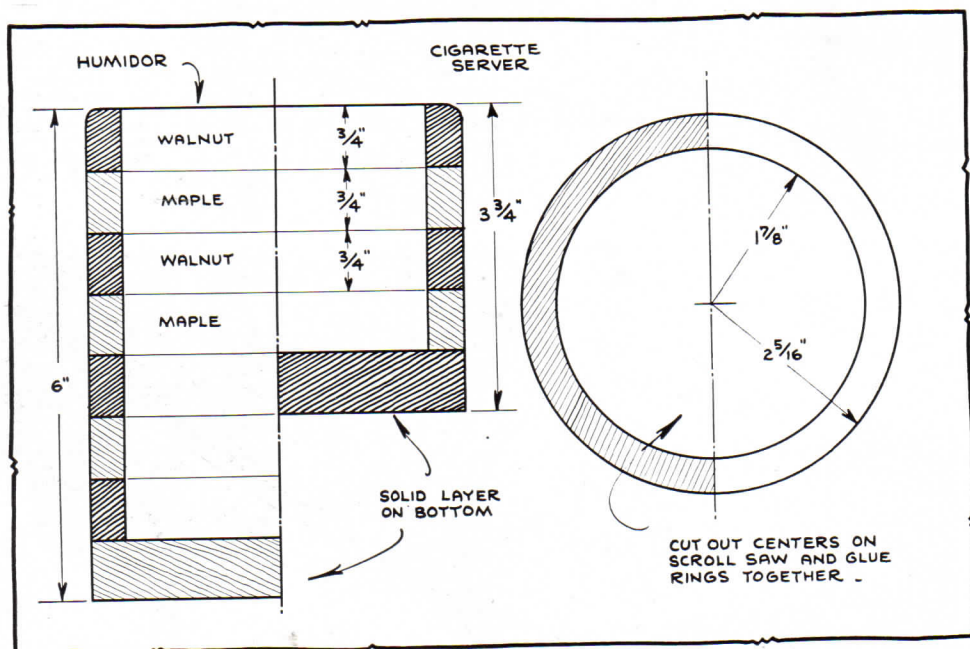
MATCHING CIGARETTE BOX

☆ HERE is a matching pair for smokers that will make a delightful gift for your friends. They are easy to make and the design is attractively modern.

Saw the layers from $\frac{3}{4}$ " walnut and maple stock. Jig saw the inside of each layer out carefully so that there will be a minimum amount of turning. The bottom layer in each case is solid. Glue up the necessary rings and clamp until dry. Mount the 3" face plate on the bottom and turn to shape.

The lids are turned from maple to the size and sectional shape shown in the drawing. Lay out and drill the six $\frac{1}{8}$ " holes in each lid to receive the brass spokes.

The brass spokes are turned from $\frac{1}{4}$ " brass rod. Polish each spoke before removing it from the lathe.

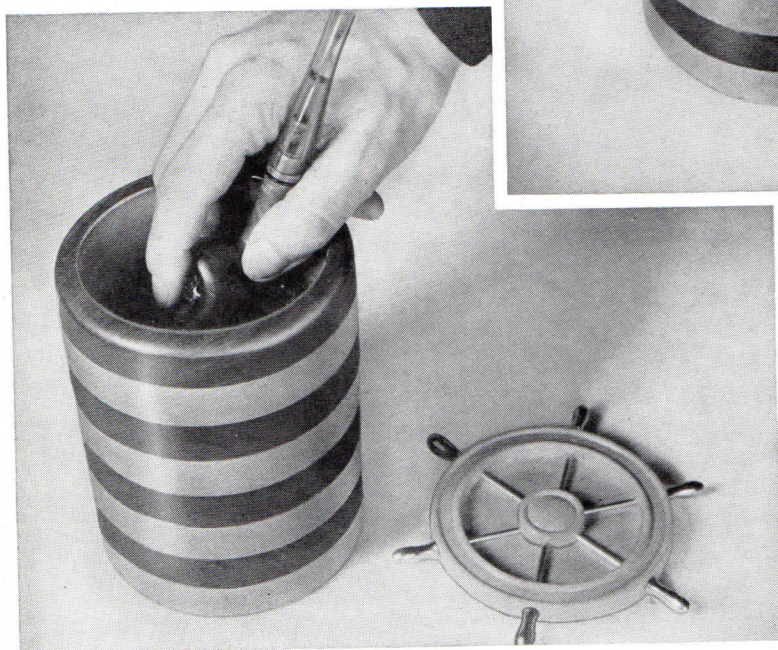


AND HUMIDOR

Both the cigarette box and humidor are finished natural. Sand carefully to a smooth surface and then apply one coat of white shellac. Rub with steel wool when dry and apply the second coat. Finish with wax.

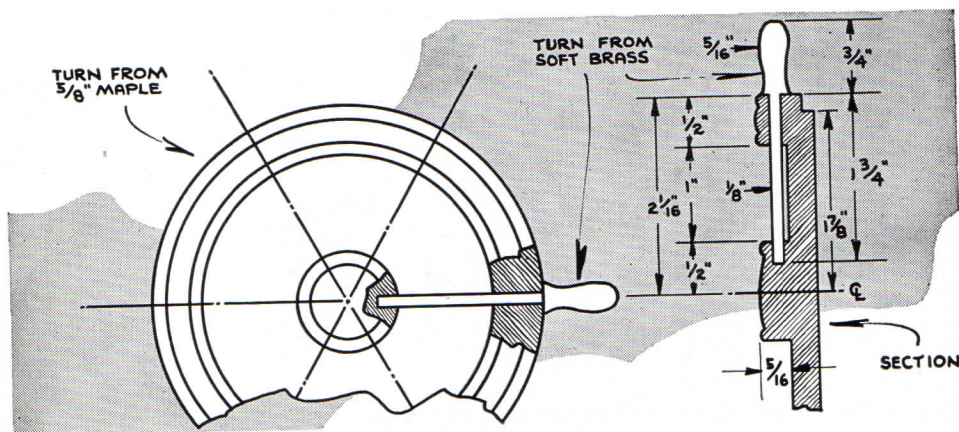
The inside of both the cigarette box and humidor are left unfinished.

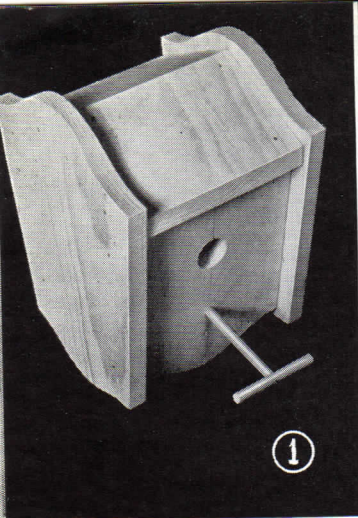
Glue a felt disc to the bottom of each unit.



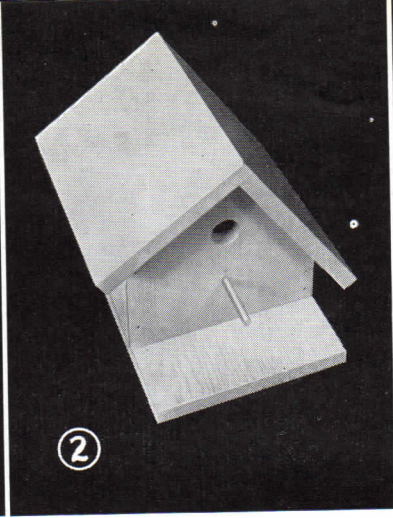
The humidor shown above is made up of eight (8) layers of walnut and maple. For best results in finishing, shellac and polish while each unit is still in the lathe.

To keep cigarettes and tobacco in the best possible condition turn the lid carefully to a snug fit. A felt disc on the bottom of each unit keeps them from marring your furniture.

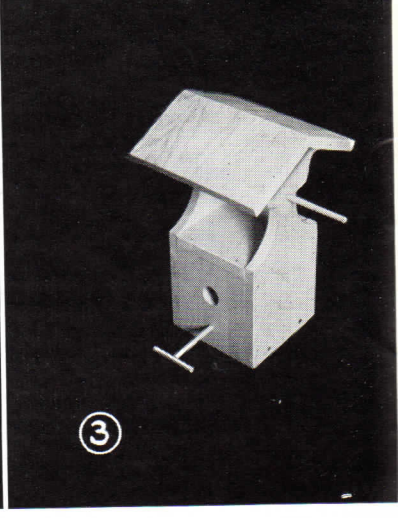




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THREE WREN HOUSES EASY TO BUILD—ATTRACTIVE

☆ THE three wren houses shown here may be used as the hanging type or placed on a post. The lumber is all $\frac{1}{2}$ " stock, either pine or cypress will do nicely. The house shown in photos 1 and 4 has one side fastened with screws for easy removal in cleaning. In the other two houses, the bottoms are removable in the same way for cleaning.

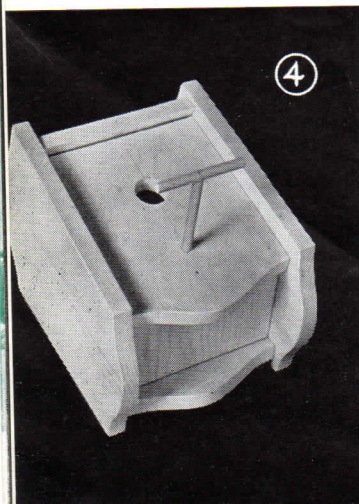
Some craftsmen do not put perches on wren houses as the wrens do not need

them. In this case they are for looks only.

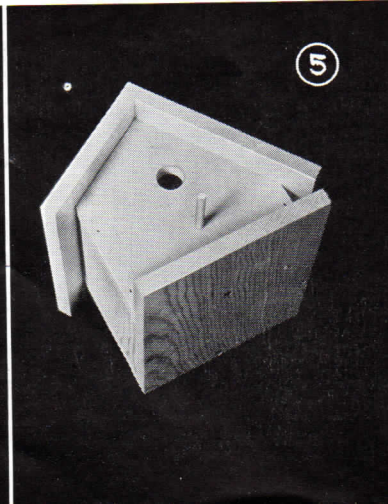
Wren houses are usually left unfinished, however, they may be painted if you prefer.

The roofs are covered with bright colored roofing paper to keep out the rain.

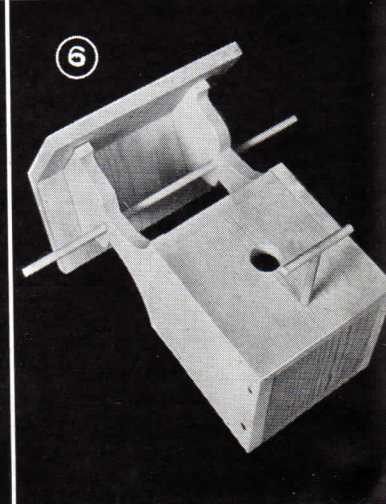
Fasten a screw eye to the center of the ridge if you intend to hang your wren house in a tree.



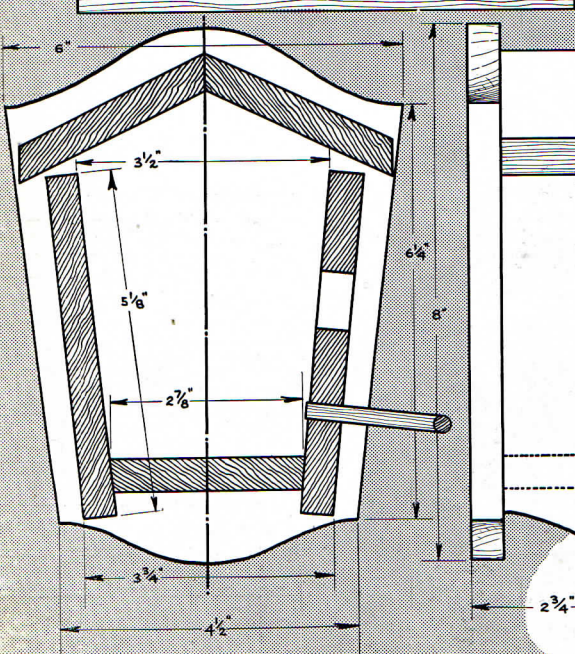
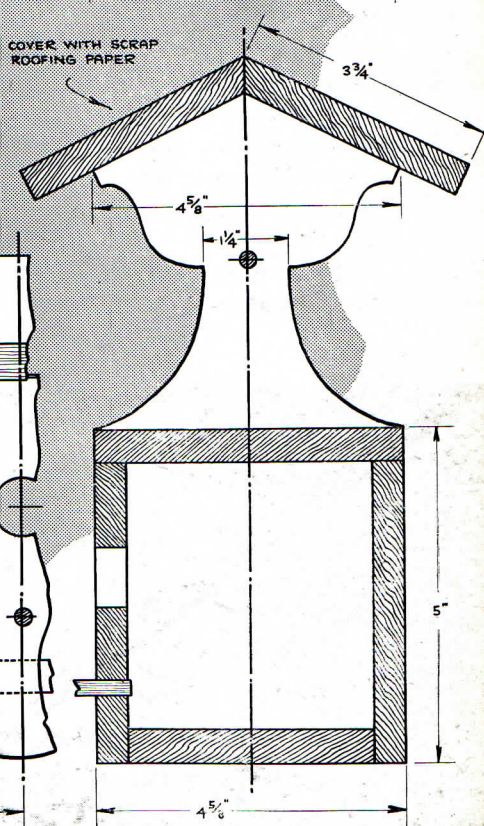
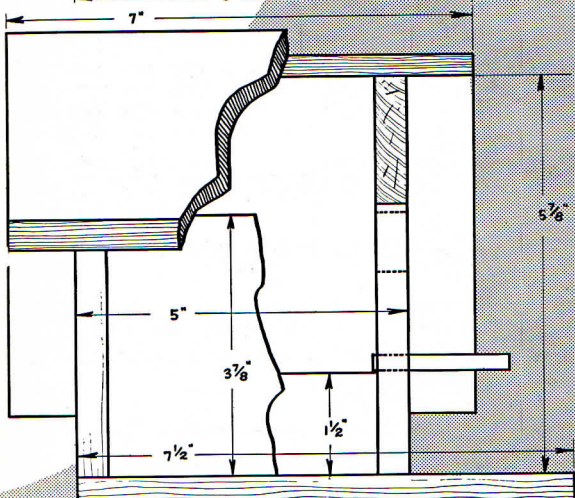
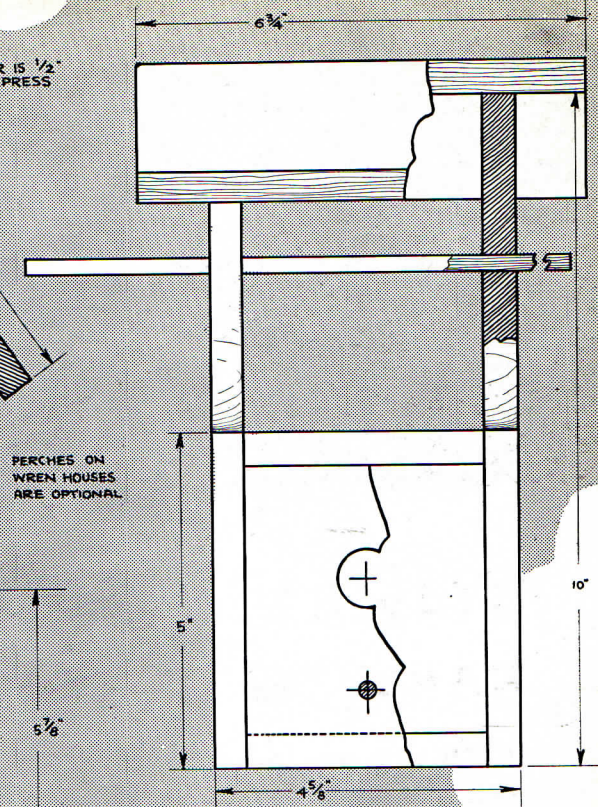
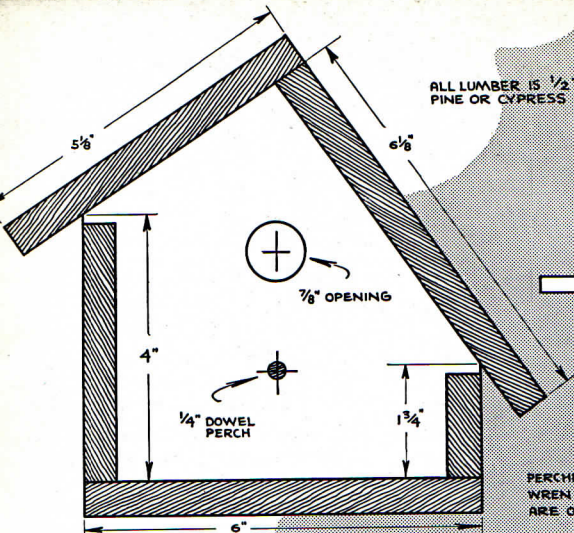
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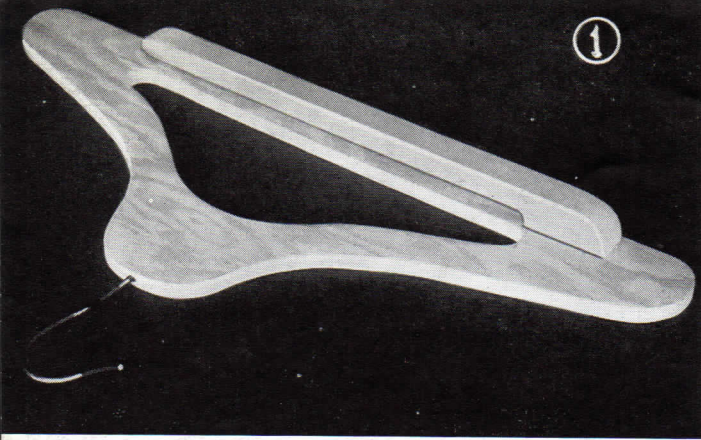


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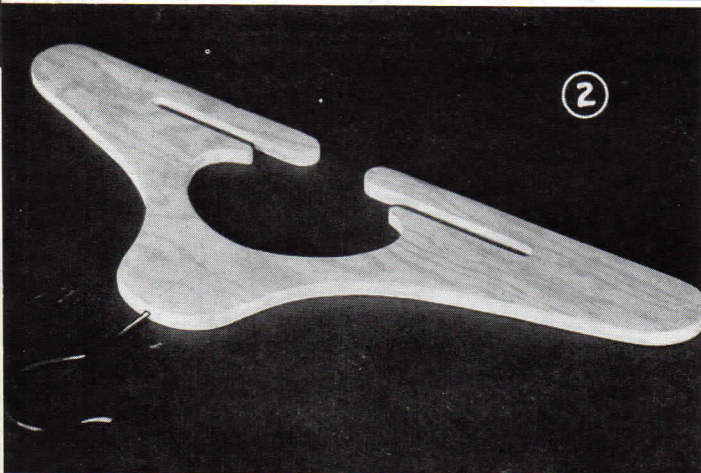


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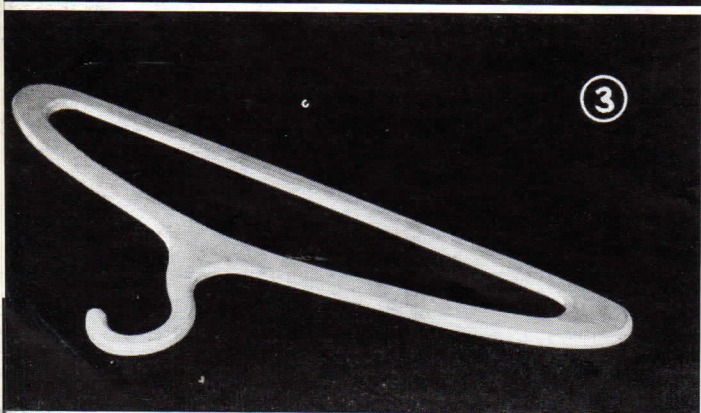




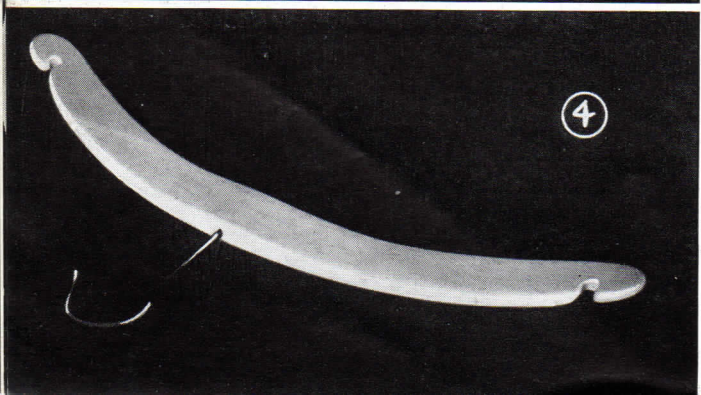
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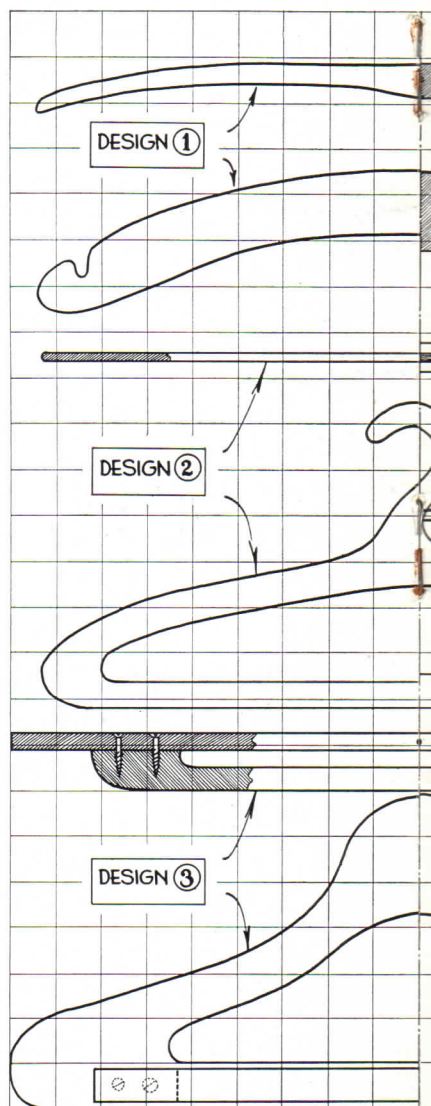
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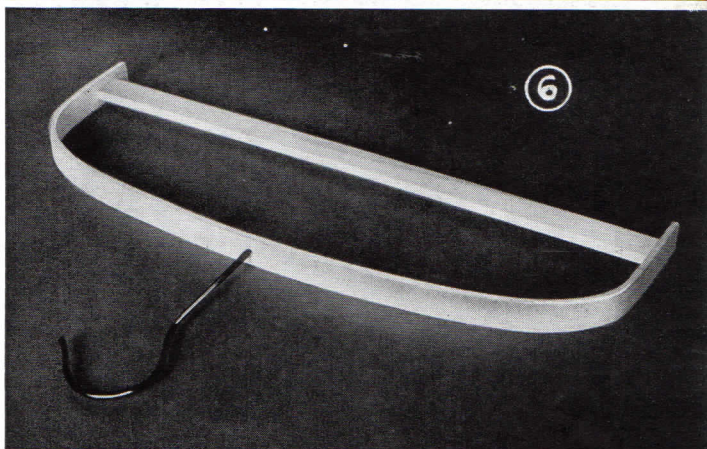
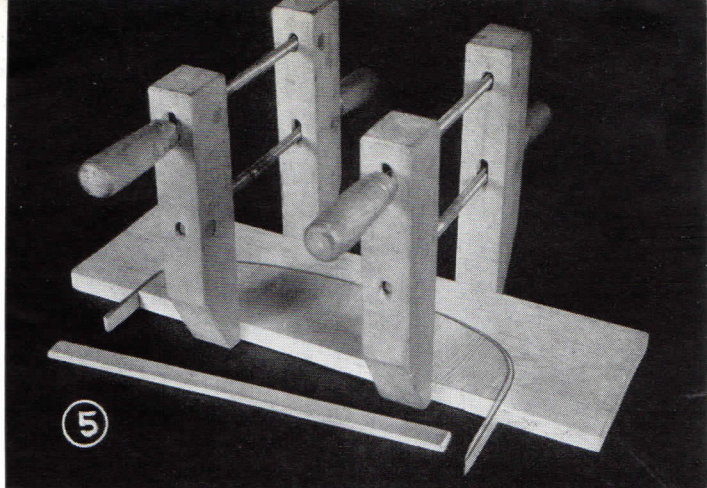
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Make Your CLOTHES HANGERS

☆ HERE are six various designs in a variety of materials. Photos 1, 2, 3, 4, 5, 6 show a bent wood model. Photo 4 shows one cut from plywood. Photo 5 shows a bent wood model. The string is clamped in the form to dry. The string is clamped in the form to dry. Photo 7 shows the assembly of dowels. The dowels are doweled at an angle. The wire hangers are bent and clinched on the body of the hanger.



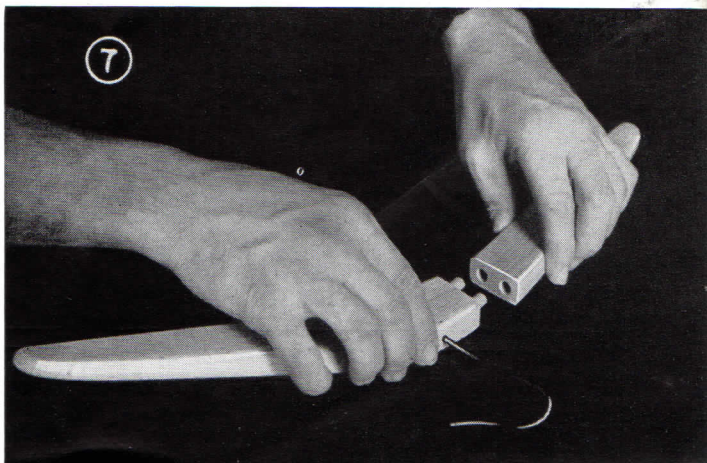
is in clothes hangers made from a 2, and 3 show hangers cut from 1 1/2" stock. Photos 5 and 6 show strips are soaked in hot water and The hangers are assembled later. design number 4. The side arms are wire hooks used in most of these and over after passing through the

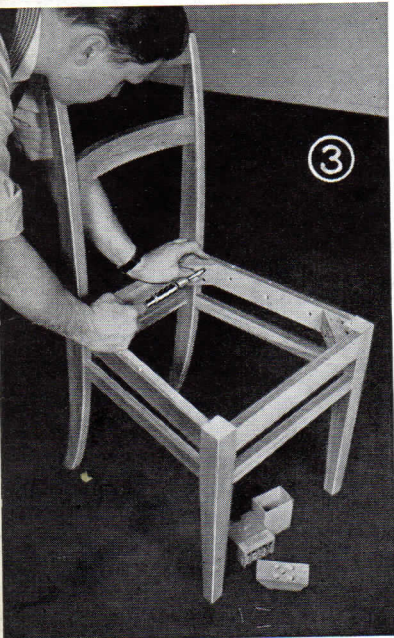
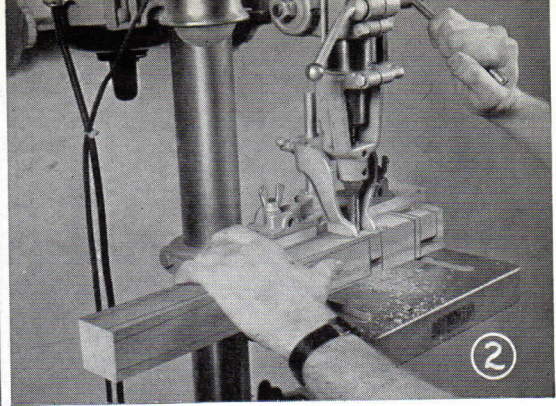
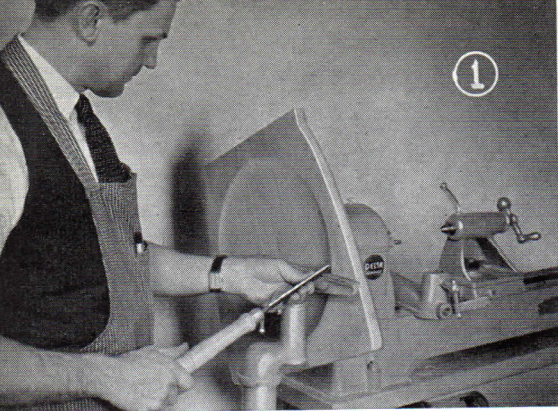


Photos 5 and 6 above show a curved wood hanger that is easy to make. The strips are cut and soaked in hot water for several hours. They are then clamped in the form shown above for at least 24 hours to dry. Assemble cross bar with glue and small screws.

☆☆☆

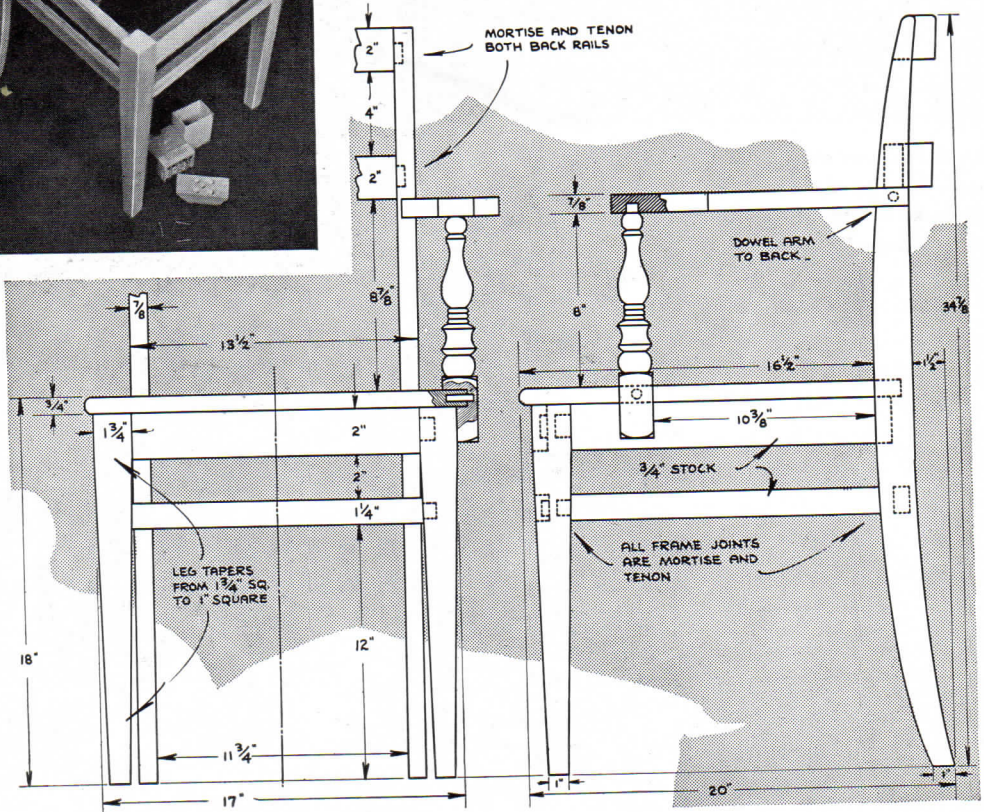
Photo 7 below shows the hanger design number 4 being assembled. The dowels are set at an angle (see section drawing), to make a two way curve.

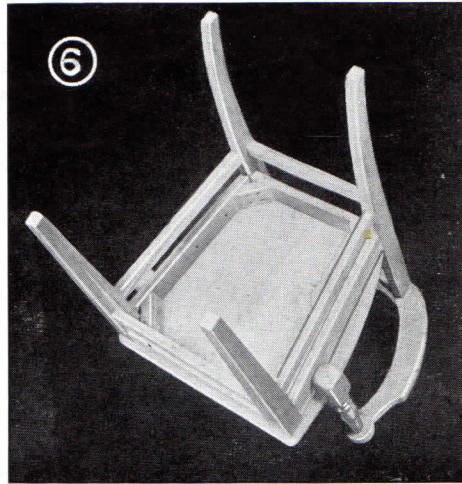




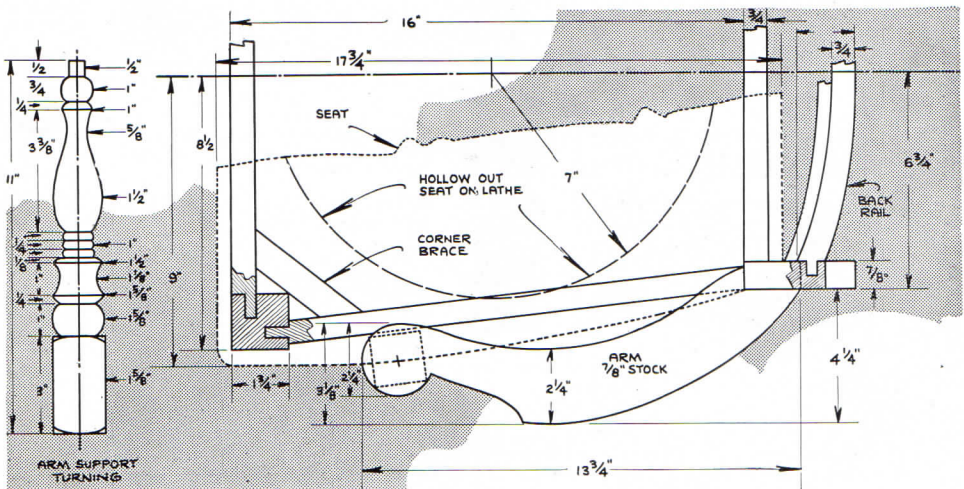
☆ ARM CHAIR ☆ from Gum or Walnut

☆ THIS well designed arm chair will make an interesting project in which you will use nearly all of your home workshop power tools. The chair shown is made from red gum wood and finished in walnut stain. The photographs and the drawings are all self-explanatory. The photograph above (photo 2) shows the mortising being done on the front legs before they are tapered.





The photo above shows a cutaway view of the chair. The arm support turning is notched and doweled in place in the edge of the seat as shown. The rails are mortised into the legs with the mortising attachment in the drill press. Finish is walnut stain and rubbed varnish.



Technical drawing of a chair, showing side, front, and detail views with dimensions and material specifications.

Side View Dimensions:

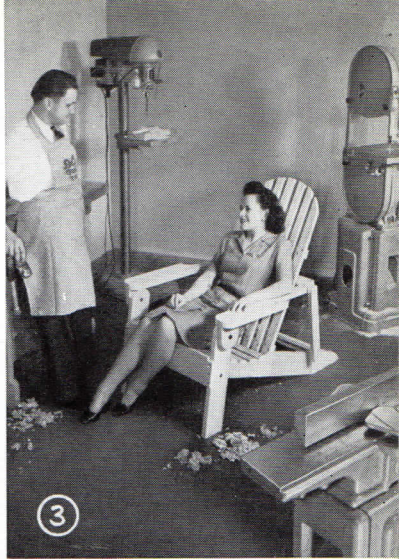
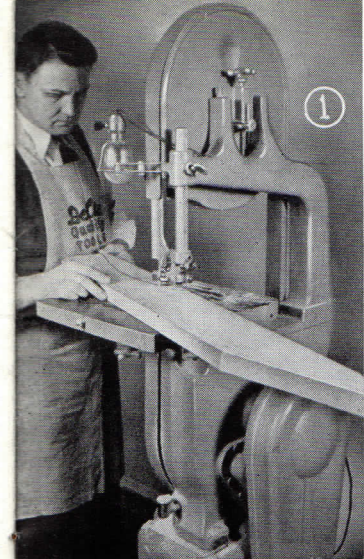
- Overall height: 22 1/4"
- Overall width: 17"
- Seat height: 4 1/2"
- Back height: 12"
- Back width: 13"
- Seat width: 17"
- Leg width: 4 1/2"

Material and Construction Notes:

- FRAME AND LEGS ARE 1 1/8" STOCK
- SEAT SLATS ARE 22 1/4" LONG
- NOTCHES FOR BACK ADJUSTMENT
- 22 1/4 x 3/4" DOWEL IS PIVOT FOR SEAT BACK
- 22 1/4 x 2 1/2 x 3/4" BRACE
- 25 1/2 x 3/4 x 5/8" BACK SUPPORT - BAND SAWED TO FIT FORMED BACK
- 25 1/2 x 3/4" DOWEL
- LEGS AND ARMS ARE 1 1/8" STOCK
- BRACKETS DOWELED AND GLUED THROUGH SLOT IN ARM
- FORMED BACK BAND SAWED FROM 2x4" STOCK
- FORMED BACK BOLTED TO DOWEL
- 17 1/2 x 2 x 3/4" SUPPORTS
- 22 1/4 x 3/4" DOWEL
- BOLT FORMED BACK TO DOWEL

Front View Dimensions:

- Overall width: 43"
- Seat width: 14 1/2"
- Seat height: 11 1/2"
- Leg width: 4 1/2"
- Arm width: 2 3/4"
- Arm height: 5 3/4"
- Arm thickness: 2 3/8"
- Arm slot width: 2 1/4"
- Arm slot depth: 4 1/2"
- Arm slot angle: 13 3/4°
- Arm slot offset: 1 1/4"
- Arm slot offset: 5 3/4"
- Arm slot offset: 4"
- Arm slot offset: 4"
- Arm slot offset: 2"
- Arm slot offset: 2 1/2"
- Arm slot offset: 4 3/8"
- Arm slot offset: 10"

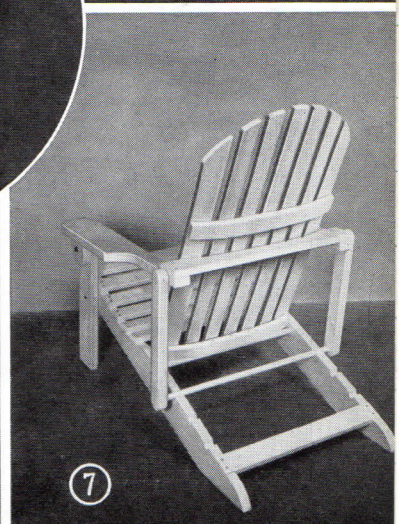
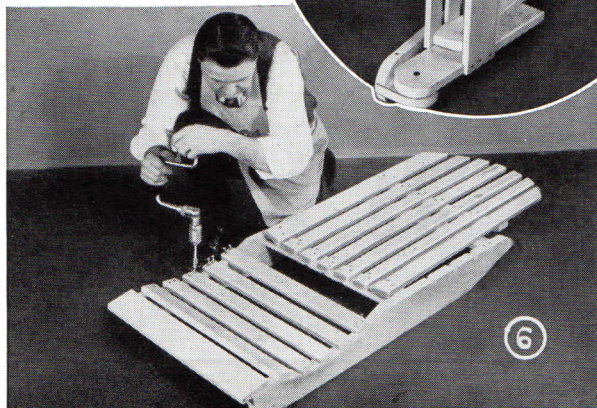
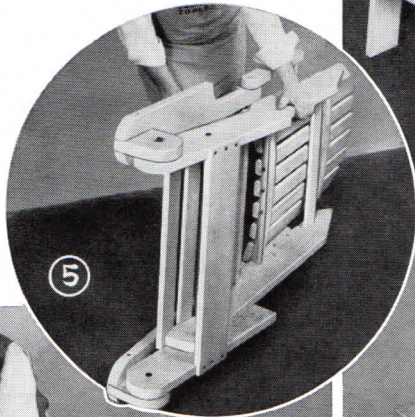


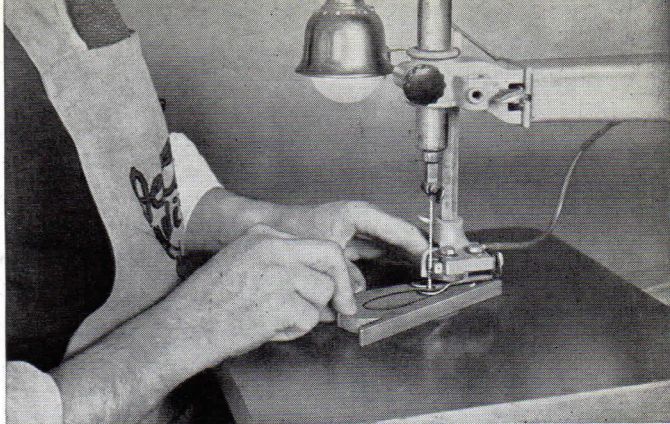
FOLDING LAWN CHAIR

☆ THE advantage of this design is the folding action which allows you to fold the chair into a compact space for storage. The back pivots on a $\frac{3}{4}$ " dowel while the arms, front legs, and seat unit pivot on carriage bolts. The curved rails for the back are band sawed from 2 x 4" stock and the slats are screwed to these. A $\frac{3}{4}$ " dowel is bolted to the bottom rail for the pivot. The chair is finished with two coats of linseed oil and then outside paint.

Photo 1 shows band sawing the seat and back leg units. Photo 2 shows assembly of adjustment supports for back. Photos 3 and 4 show front views of the chair.

Photo 5 shows chair in folded position, note narrow space it will occupy. Photo 6 shows seat unit assembled with back in place. Photo 7 is back view of chair, note adjustment bar and notches.

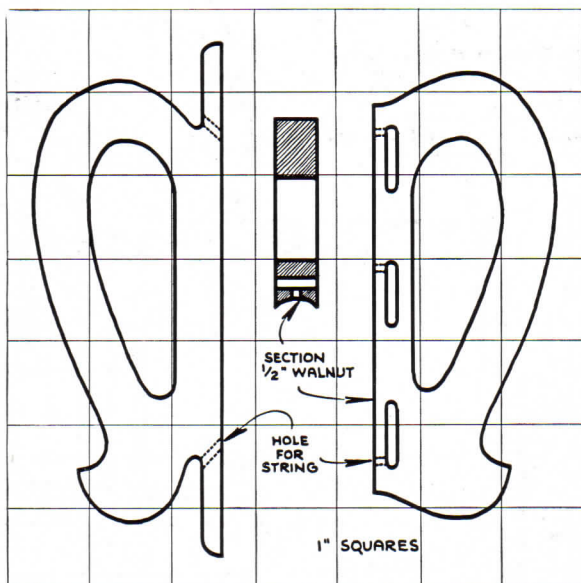


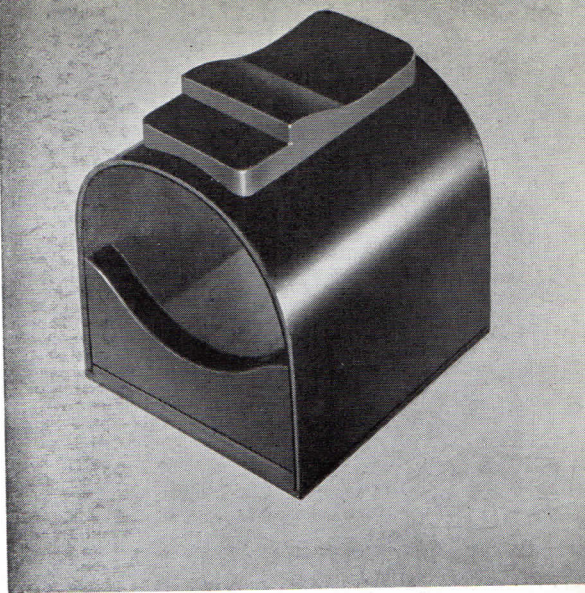
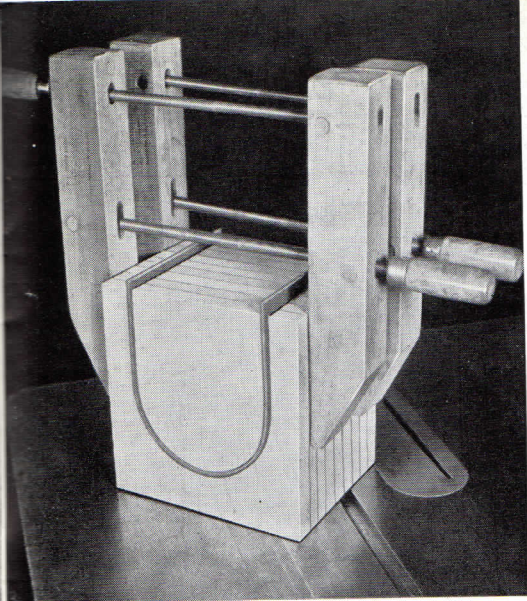


Attractive **WINE BOTTLE HANDLES**

☆ THE wine bottles shown on this page are currently becoming popular and make excellent gifts at very little material cost.

The handles are cut from $\frac{1}{2}$ " walnut or similar wood. Jig saw to shape and then curve the edge that goes against the bottle. (See drawing below.) Drill holes and cut a groove in this curved surface to carry the cord from one winding place to the next. Two types of handles are shown. After winding, coat the string with shellac. Decorate the bottles with colored enamel or decals.





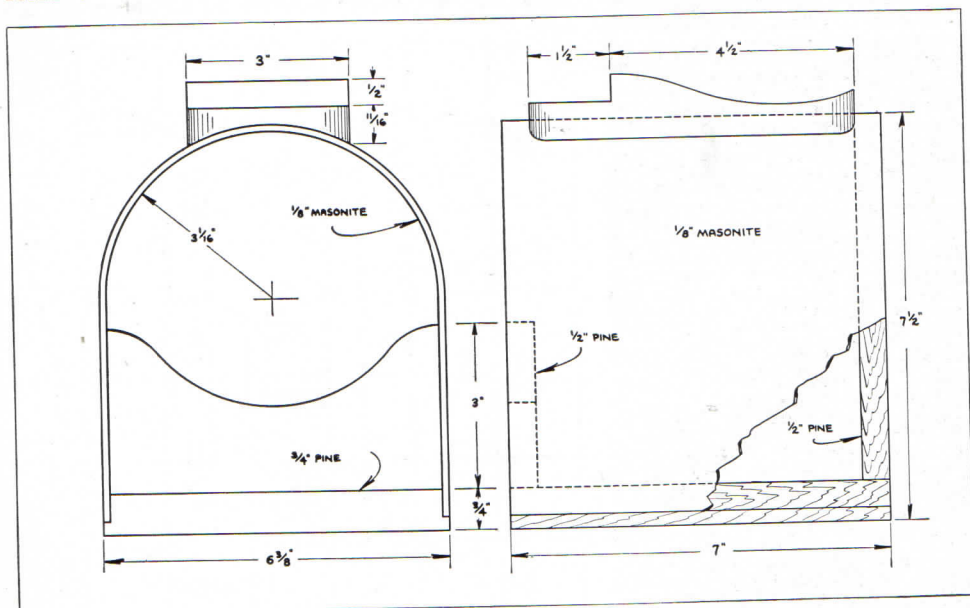
SHOE SHINE BOX

☆ THIS neat shoe shine box serves a double purpose. It serves as a stand to place your foot on for support when shining shoes and also acts as a neat container for polish, brush, etc. The box is made from scrap pieces of wood and a small length of $\frac{1}{8}$ " masonite. The masonite is soaked in hot water for several hours and then placed in a form cut to fit the desired curve as

shown in the photo above. This is allowed to dry for about 24 hours before removing from the form.

Cut the various pieces to size and shape and assemble with glue and small screws. Assemble the top shaped block to the masonite from the underside first before the final assembly.

Finish with brown or a similar dark colored enamel.



FLYING CHIPS

Plans for Boys from 5th to 9th Grades

Tucson, Arizona: Please send me some of your woodworking suggestions and plans which would be of value to us here at the school. The boys take shop from the 5th to 9th grades. The boys come from the Indian reservations to which they later return. They are taught the use of tools and practical trades. Materials are quite limited, so any simple practical suggestions you may be able to make will be very welcome. Thanking you in advance for selecting this material.

E. R. H., Shop Teacher.

Delta plan sheets, package "H" (11 plans) would be best suited for boys of the above age.

Workshop Plans

Los Angeles, California: I am planning a home workshop equipped with Delta tools. At present I am doing some war work, and will need more Delta tools which I can later switch over to the home shop.

On page 4, figure 2, of your booklet, "How to Plan a Home Workshop," you show a separate building. Do you have plans for this, or can you advise where some can be obtained?

W. S. J.

We are now working on a book which will feature modern shop layouts, including separate buildings. As soon as this book is ready we will announce it in the *Delta*gram.

Husband and Wife in Business

Bellfour, California: My wife and I are going to go into business next year. We are figuring on putting in a line of baby clothes, toys, and novelties. I will make the toys and the wife will do the selling.

Where can we buy toy plans and supplies for making dolls, doll dress patterns, etc.?

C. B. B.

Our new book on toys should give you numerous suggestions. The book on novelties is full of ideas on items that could be sold in a gift shop.

Small Wooden Wheels

Brooklyn, New York: I have just received my first copy of the *Delta*gram, and find it a very interesting and helpful book, and I am looking forward to receiving your future copies. I would like to know if you could supply the names and addresses of companies who make small wooden wheels for toys, sizes 1" to 2" in diameter, also wooden beads approximately $\frac{1}{2}$ " diameter?

J. E. M.

Write in to us and we will put you in touch with several firms who manufacture wooden wheels.

Novelty Finishes

McKeesport, Pennsylvania: In your book, "Practical Finishing Methods," on pages 36 and 37, you mention a novelty finish called Crackle Wrinkle and Jack Frost, for which I have long tried to get. I would like to know where I can buy same. Thank you.

S. G.

Refer to our Finishing Manual, page 63. You will find listed several manufacturers of Crackle and Jack Frost finishes.

Brother—Can You Spare a Spring?

San Jose, California: I have a musical powder box with a broken main spring in the music unit. I wrote to the address in New York City, which you give in your list of where to obtain materials, but had no response. Is the company given in your list still in existence? Do you know anywhere else I can get one of the musical units to replace the present broken one? Thank you for any information you can give me.

P. H.

It may be that for the time being the company we mentioned is unable to get parts for these units. The units and parts are imported from Switzerland.

Any Suggestions?

Detroit, Michigan: I am well aware of the fact that there is a war on, which has to be won. However, due to the fact that I am in possession of some good wood scraps which I believe should be put to some use, I am requesting that you suggest possible use of some half circles of $1\frac{1}{2}$ -inch fir plywood which are approximately $22\frac{1}{2}$, $18\frac{1}{2}$ and $15\frac{1}{2}$ inches in diameter. I have several thousand of each size and hate to see them scrapped.

P. M. S.

Any suggestions by our readers will be very much appreciated and forwarded to P. M. S. Thank you.

Answer to W. D. N. Inquiry

Ball Ground, Georgia: This may be too late for any use, but in the November-December issue of the *Delta*gram I noticed where W. D. N., Chicago, Illinois, inquires about thin white lines.

If he uses a draftsman's ruling pen, with a little practice he may be able to get good results.

I have done a lot of white line inlay work with good results, by using white holly veneer $1/28$ " thick cut in strips about $3/4$ " wide. This $1/28$ " thickness can be reduced somewhat by pulling it between folded sandpaper. If he is interested, I can send him a free sketch for grinding a chisel for this facelate work.

At one time, and possibly now, there was a celluloid on the market for this kind of work. I believe this should work out well.

E. J. E.

Another Good Suggestion for W. D. N.

Arlington, California: In the last *Delta*gram I noticed a Mr. W. D. N., of Chicago, Illinois, wants a suggestion on what to use to make a white line on turned work and what to use to fill engraved letters.

I have a suggestion for this gentleman: "Plastico Rok," manufactured by Technical Supply Company, Palo Alto, California. It does not stain the wood and hardens like to rock and doesn't check. It comes in the following colors: green, blue, red, black, yellow and white.

By making a groove with a chisel and filling it with "Plastico Rok," he will get a first class job.

A. L. T.

Thanks, fellows, for the suggestions. We are sure W. D. N. appreciates them as much as we do.

Buy Bonds to Buy Delta Tools After the War

Ansonia, Connecticut: I am a subscriber to the *Delta*gram. In reading the Flying Chips Page, I find that nearly everyone who writes in mentions the fact that he has Delta machines.

This may be a shock to Delta, but in my workshop there isn't a Delta machine in the whole lot, although I wish there were. I'm buying war bonds now, so I can buy all new Delta machines after the war.

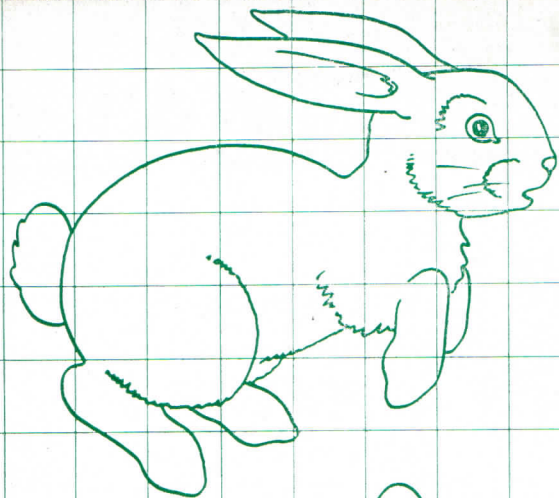
A. A. G.

How about you, reader—are you setting any bonds aside for additional equipment for your shop after V-Day? Let's all buy more and more bonds whenever we can, and hold on to the ones we already have, to speed up victory.

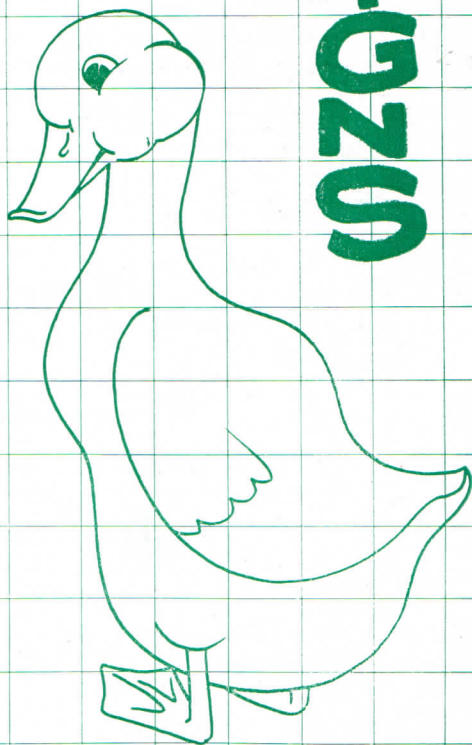
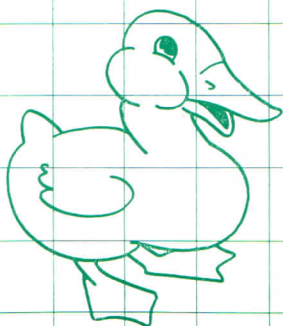
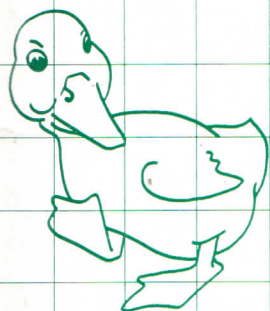
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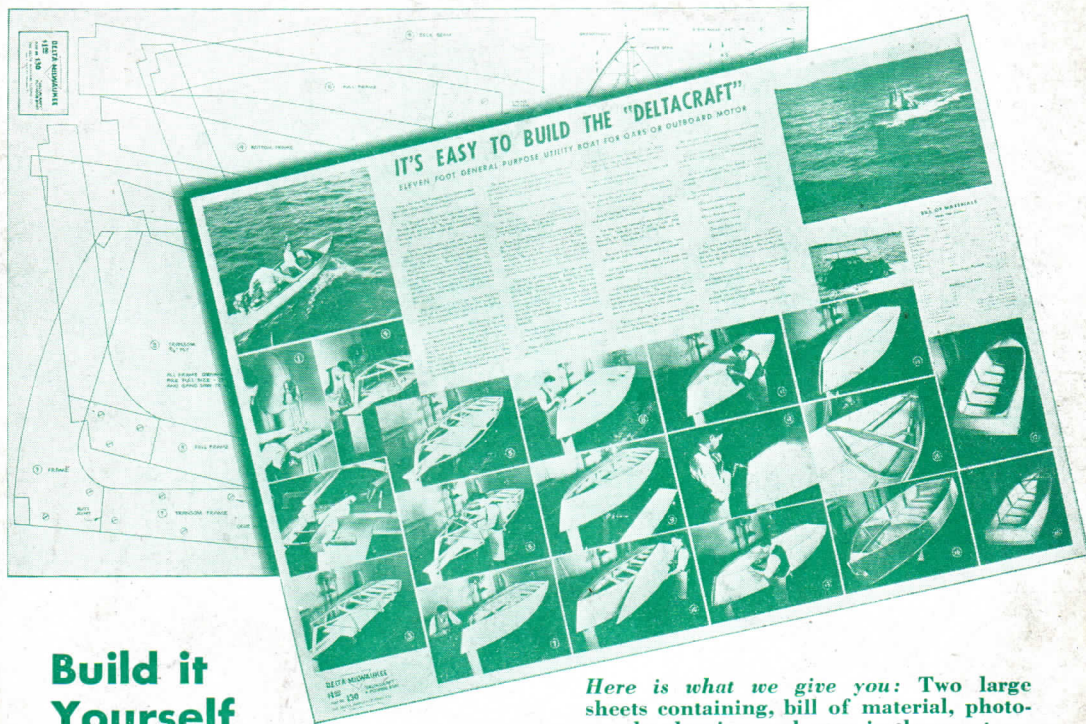
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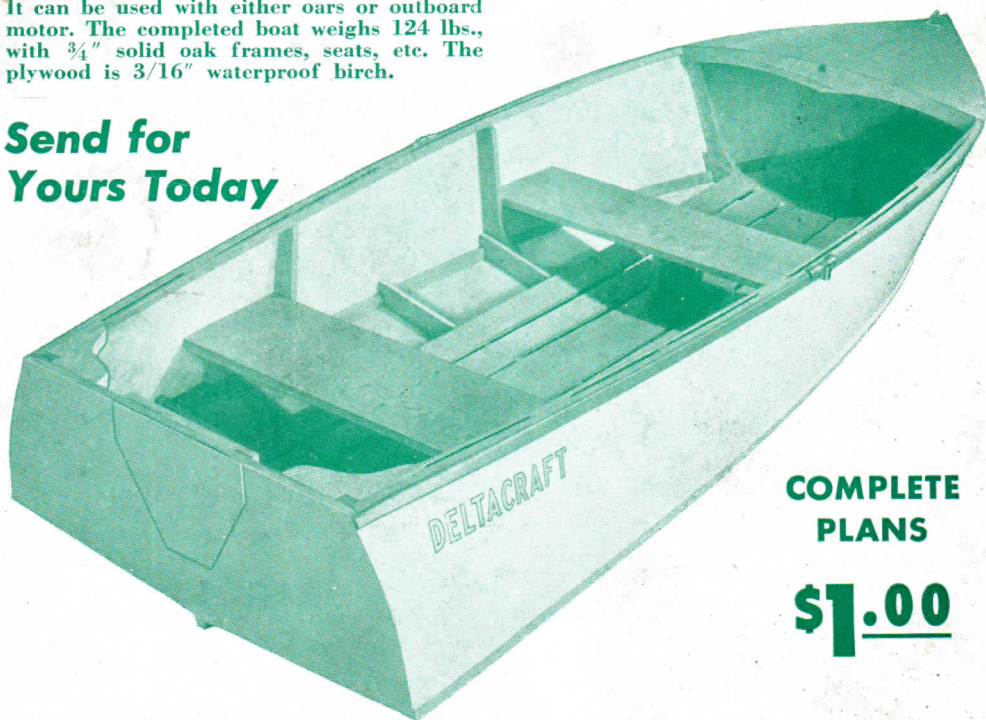


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