Make This Handsome Chess

Here's a chess set you can build that is fit for a king, queen, even a pawn. It easily copped first prize at the Michigan Industrial Education State Fair

THOUGH its exact origin is unknown, a generally accepted theory is that chess was imported to Europe from the Orient more than 1500 years ago. The game as we know it today, except for minor changes, is at least 600 years old.

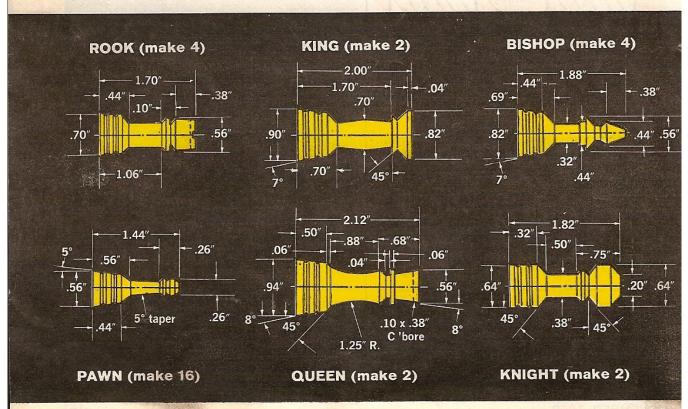
While the shapes and sizes of the chessmen may vary, the checkered playing board is standardized around the world and consists of 64 squares—32 light colored and 32 dark. In our version, the board is of ½-in. plywood and the squares are made by tilting the table saw blade to 45° and running shallow V-grooves at right angles.

The contemporary chessman are machined on a metal lathe. One set is of brass while the other is of aluminum. Other combinations of metal could be used or, both sets could be aluminum with one set being anodized. To protect them when not in use, they are snugly stored in rattleproof drawers lined with Styrofoam.

Making the chessmen: Start by cutting the stock to length—allowing two chessmen to each length—except for the kings and queens. Cut a chessman out on one end of the stock, then reverse the stock end for end and turn the second chessman. Dimensions for all the chessmen are given below; use standard metal-lathe practice to cut them. The stylized king's crown is made using a jeweler's file. Carefully file the notches about ½6 in. wide and ½6 in. deep.

Finishing the chessmen: After each piece has been turned, leave it mounted and polish it dry with 240-grit emery cloth, then with oil. Next use 320 grit, also dry and then with oil. Use lacquer thinner and tissue paper to clean the piece while it is still on the lathe. Once each of the pieces has been cleaned make certain that they are not touched with the fingers.

Heat the piece with a torch until just warm—don't overheat. Then apply three



Set for Christmas By BILL FIFER and WALTER LA

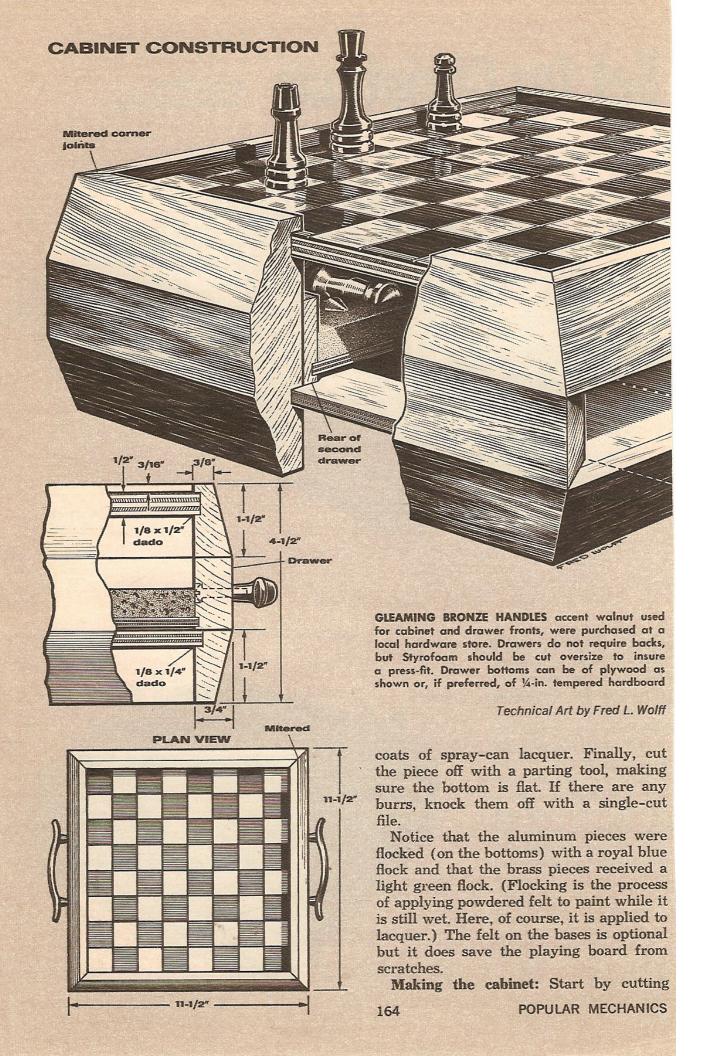
and WALTER LANGE

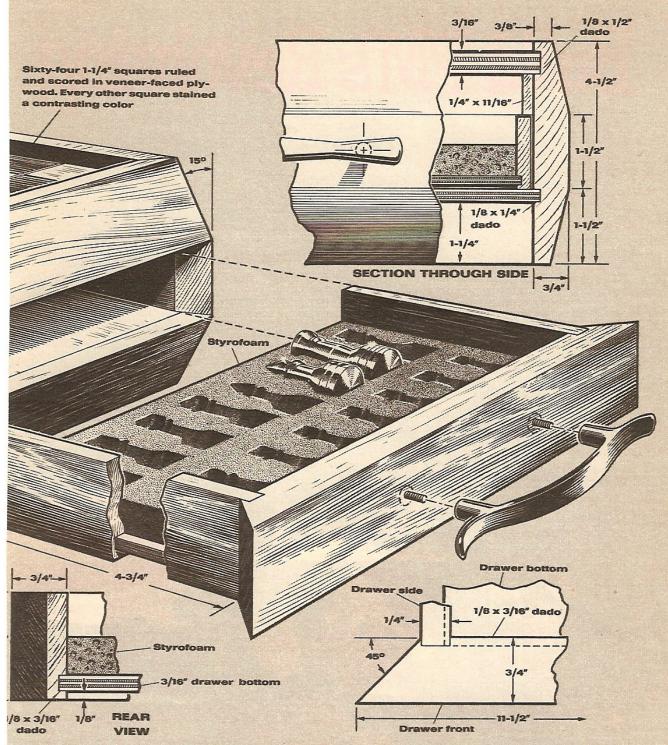


LATHE-TURNED MEN in gleaming brass and aluminum, used and stored in a rich walnut case, make this handsome chess set a unique conversation piece that's worthy of your finest craftsmanship. Each set stores in a drawer of its own and is cradled in a bed of Styrofoam. The chess playing surface is scored and squares are stained contrasting light and dark colors



Photos by the Authors





the playing board to size. Be sure you allow an extra 1/8 in. on all four sides for inserting the plywood into dadoes in the cabinet sides. After grooving the squares, sand the board thoroughly, and stain alternate squares, using an artist brush and walnut stain.

Next make the box. There are no tricky or unusual cabinetmaking techniques called for, but work carefully so that the finished product will have the look of elegance it deserves. The sides are cut to shape on the table saw. Notice that the corners are mitered as are the mating ends of the drawer fronts. To insure a

minimum of saw marks on the bevels on the cabinet sides, use a hollow-ground cabinet blade to make the cuts.

With box and drawers assembled, cut both Styrofoam drawer liners to size. Next, arrange the chessmen in two rows as they appear on the board. Then, gently press each piece down into the Styrofoam so that it will clear the drawer opening. Remove the pieces, paint the Styrofoam top and front and then flock with the color of your choice. Allow ample time for the setup to dry before going on to the next step. Caution: Since certain paints will

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