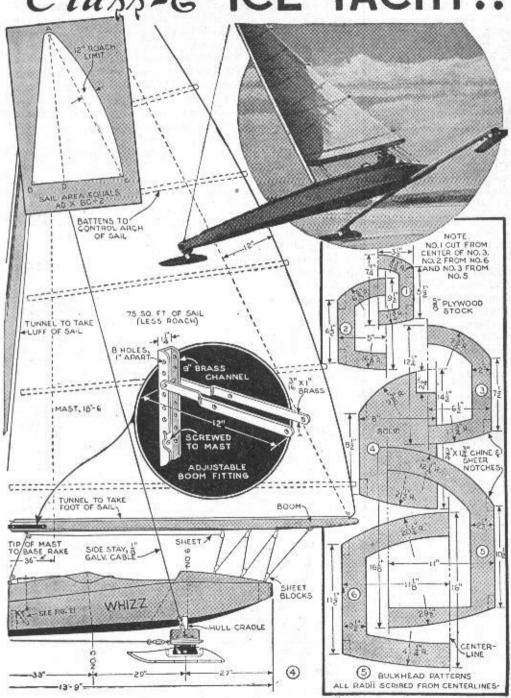


Class-& ICE YACHT ...



this plank while assembling the hull framework. Center-to-center spacing of the bulkheads is given in the side view, Fig. 4. Begin assembling by fastening the nose block, Fig. 3, to the plank with a lag screw inserted through the pivot hole. Then toenail bulkhead No. 5 to the plank in its correct location, after which a light straightedge is laid across the top of both nose block and bulkhead to determine the bevel to which the outer edges of the bulkhead should be cut in order to conform to the longitudinal taper of the hull.

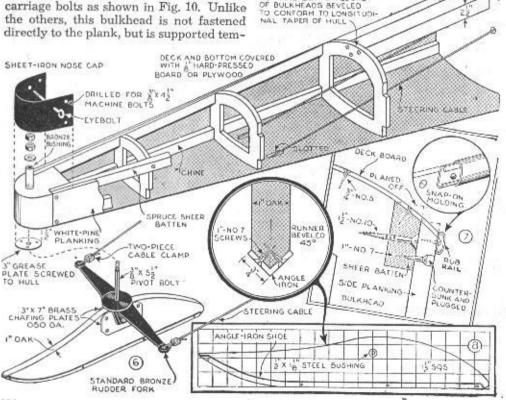
After locating and beveling the intervening bulkheads, the chine and sheer battens of 34 by 134-in, spruce are fitted, casein-glued and screwed in the noseblock rabbets and bulkhead notches, using No. 10, 11/2-in. f.h. brass or galvanized screws. Allow the sheer and chine pieces to extend all the way back. Next, the oak mast support is glued and screwed in place. The top edge of this piece is crowned slightly to conform to deck contour. Framework is continued aft. A 1-in. oak cleat, glued and screwed to the lower face of bulkhead No. 6, is bored to take two carriage bolts as shown in Fig. 10. Unlike the others, this bulkhead is not fastened porarily about 1½ in. above the top edge of the plank to maintain the sweep of the hull. The natural curve of the battens when fastened at this point will bring the bulkhead in true position. After fastening the tail block in place, a ¾-in. center brace is fitted between the bulkhead and tail block.

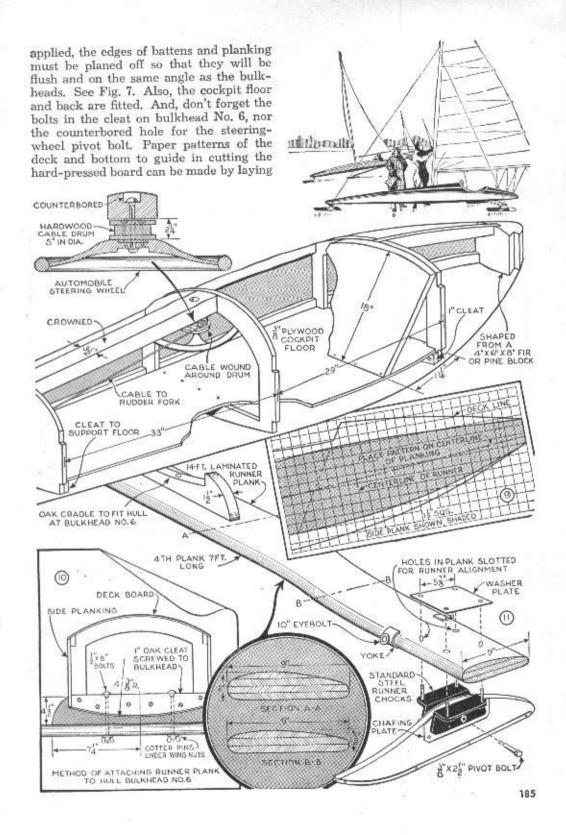
Now for the side planking: The shaded portion of the pattern in Fig. 9 represents the shape of the side planking 39 in. from the tail of the hull, the lines being straight from this point forward. The centerline of your paper pattern, which is made accordingly, is laid directly over a centerline struck on the planking and the curved outlines traced off. After the planking is cut to shape, first, temporarily fasten it in place to the battens for a test fit before permanently fastening with casein glue and No. 7 1-in. brass screws, spaced about 4 in. apart. The batten edges should come about flush with the planking.

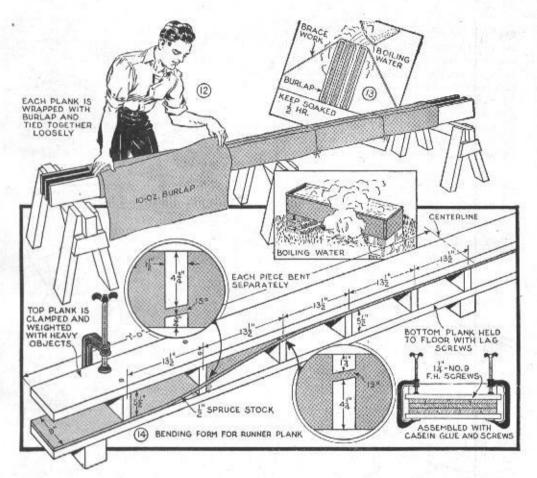
Before the deck and bottom covering are

TOP AND BOTTOM EDGES

MAST FITTING ATTACHES HERE







large sheets of heavy wrapping paper over the framework, fastening it here and there with thumbtacks. Use No. 5, ¾-in. brass screws spaced 3 in. apart for fastening the covering. After trimming the edges flush with the side planking; a ½-in. standard rub-rail molding is attached over the joint.

The runner plank, Fig. 11, comes next. It is built up from four pieces of ½-in. spruce to give spring action. Figs. 12, 13 and 14 show how the pieces are wrapped loosely with burlap and steamed before being clamped separately in a wooden form until thoroughly dry. When each piece has been bent, the three upper planks are glued, clamped and screwed solidly together with No. 8, 1¼-in. brass screws, after which a fourth auxiliary plank, 7 ft. long, is screwed to the bottom side at the center. The complete assembly is then shaped as shown in the sectional detail of Fig. 11. For ease in transportation the run-

ner plank is made quickly detachable from the hull by means of an oak cradle cut and bored to receive the two projecting bolts at bulkhead No. 6, as in Fig. 10. Cotter pins through the bolts prevent the wing nuts from working off. The runners, cut and shaped from 1-in. oak as in Fig. 8, are pivoted in standard runner chocks, shown in Figs. 6 and 11. The bronze rudder fork. Fig. 6, bears on a 3-in. grease plate screwed to the bottom of the hull. Rear runner chocks are bolted to the runner plank in slotted holes to permit runner alignment. The 1/s-in. galvanized side stays stretched from eyebolts fitted through the edge of the runner plank and nose block are fastened with small cable clamps and drawn taut with turnbuckles, as in Fig. 1.

Choice of two types of mast and boom construction is given in Figs. 15 to 20 inclusive. The one in Fig. 17 is simpler than the Swedish type of mast shown in Fig. 19.

