

H. E. VROOMAN.
TEMPLATE.

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1,406,117.

Patented Feb. 7, 1922.

Fig. 1.

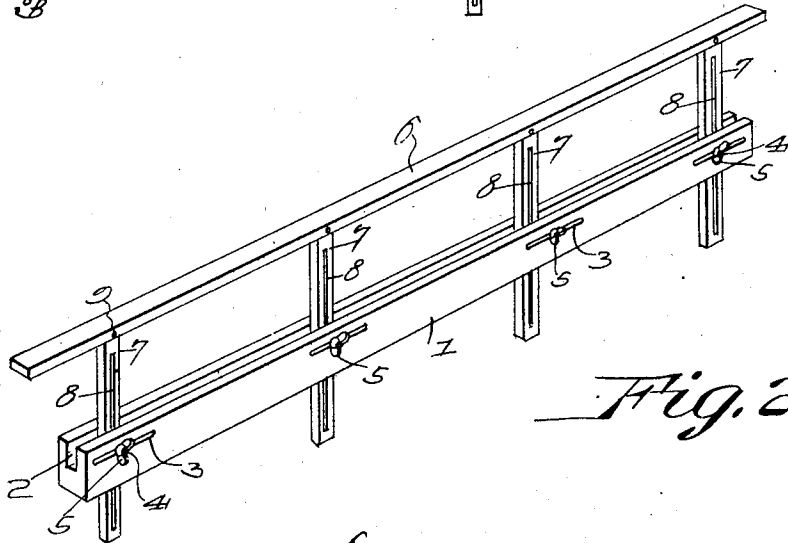
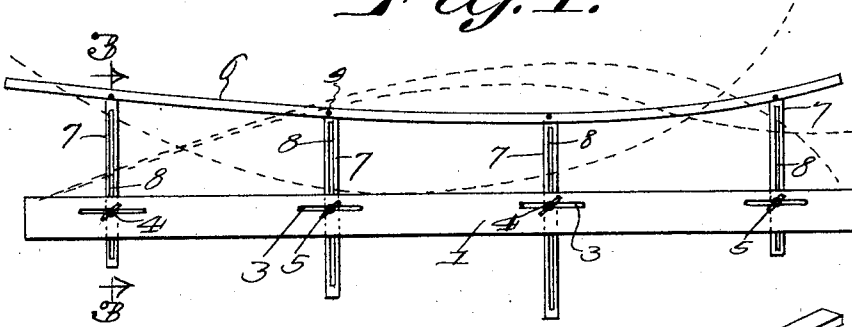


Fig. 2.

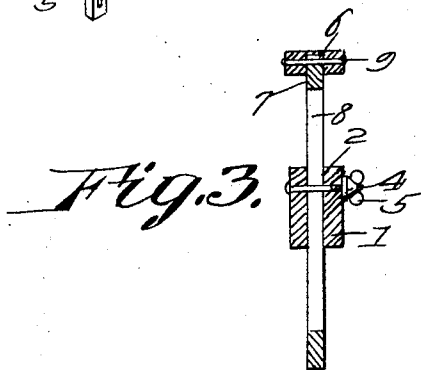


Fig. 3.

Inventor
Harold E. Vrooman,

By

E. Hume Talbert Attorney

UNITED STATES PATENT OFFICE.

HAROLD E. VROOMAN, OF SOUTH JACKSONVILLE, FLORIDA.

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To all whom it may concern:

Be it known that HAROLD E. VROOMAN, a citizen of the United States of America, residing at South Jacksonville, in the county of Duval and State of Florida, has invented new and useful Improvements in Templates, of which the following is a specification.

The object of the invention is to provide a tool readily adaptable for the making of patterns and taking "spilings" on the circular work of the bow and stern of a ship. In the construction of wooden ships there are approximately fifty pieces of heavy timber used in the construction of the stern and these must be shaped and fitted very carefully. The invention is a tool which is readily adjustable by hand to make a template of the desired curve to which the timbers are to be cut and formed and this tool is constructed with a view to simplicity, durability and cheapness of manufacture.

The invention is illustrated and described in a specific embodiment to which, however, it is not to be restricted. The writer reserves the right to make such changes or alterations as the actual reduction to practice may suggest, insofar as such changes or alterations are compatible in spirit with the annexed claim.

The same numerals of reference designate the same parts throughout the several figures of the drawing, wherein:

Figure 1 is a plan view showing the manner in which the improved tool is used, a portion of a ship the confirmation of which is desired being shown in dotted lines.

Figure 2 is a perspective view of the invention in closed position.

Figure 3 is a section on the line 3—3 of Figure 1.

Referring to the drawings, the invention is shown as comprising a frame 1 which is long and relatively narrow, the frame being of such a shape that it is approximately square in cross section. The frame is formed on one face with a longitudinal slot 2, this slot at the ends extending into the frame for approximately half of its thickness but extending all the way through the frame except at the ends, thus leaving a web portion at the ends which unite the two sides of the frame. Extending transversely through the frame so that they extend across the slot 2 at right angles thereto there are the slots 3,

these slots being long and relatively narrow and extending in the direction of the length of the frame and being positioned adjacent the upper longitudinal edge of the frame. Passed through these slots 3 there are the bolts 4 which are provided with threaded nuts to receive wing nuts 5, the latter all bearing against one face of the frame with the heads of the bolts bearing against the other face of the frame. This is thought to be the preferable arrangement although each alternate bolt may be reversed in reference to the adjacent bolt, so that certain bolts will have their heads on that side of the frame on which the nuts of the other bolts stand.

A conformator blade 6 made preferably of metal, but flexible, is used in conjunction with the frame and it is operatively attached to the latter by means of arms 7. These arms 7 are also made preferably of metal and each is provided with a longitudinal slot 8. The arms at one end are pivotally connected with the conformator blade 6 as indicated at 9 and the other ends are passed through the slot 2 of the frame, the bolts 4 in turn passing through the slots 8 in the arms.

When the bolts 4 are loose, the arms may be moved angularly or longitudinally relative to the frame, or laterally because of lateral movement provided for the bolts 4 by the slots 3. Thus the conformator blade, when the arms 7 are loose may be set to any desired contour—as shown in Figure 1, for example—whereupon the bolts 4 may be tightened by screwing the wing nuts 5 down against the frame 1. Thus tightening the bolts 4 serves to draw the two sides of the frame together when the arms 7 are firmly gripped between them, thereby making it possible to maintain the blade 6 to the contour to which it has been set. The device thereafter acts as a template for the formation of timbers or what-not to this desired shape.

When not in use the device is adapted for folding into a compact frame, as clearly illustrated in Figure 2, the conformator blade in this instance being allowed to assume its straight shape and the slots 3 permitting the adjustment of the bolts 4 so that the arms 7 may be wholly concealed within the slot 3.

From the accompanying drawings and the

above description, it is believed that a clear enough understanding of the invention is to be had to render further description unnecessary.

5 The invention having been described what is claimed as new and useful is:

In a template, a frame formed with a medial longitudinal slot extending transversely therethrough, a flexible conformator blade, 10 arms pivotally connected to the conformator blade at various points in its length, the said

arms being formed with longitudinal slots, the said frame being further formed with narrow and relatively long slots crossing the first said slot, and bolts passing through the 15 last said slots and the slots in the arms, whereby the sides of the frame may be clamped against the arms for the useful purpose herein specified.

In testimony whereof he affixes his signature. 20

HAROLD E. VROOMAN.