No. 825,340. PATENTED JULY 10, 1906.

J. C. NICHOL.

BOAT.

APPLICATION FILED DEC. 30, 1903

FIG. 1.

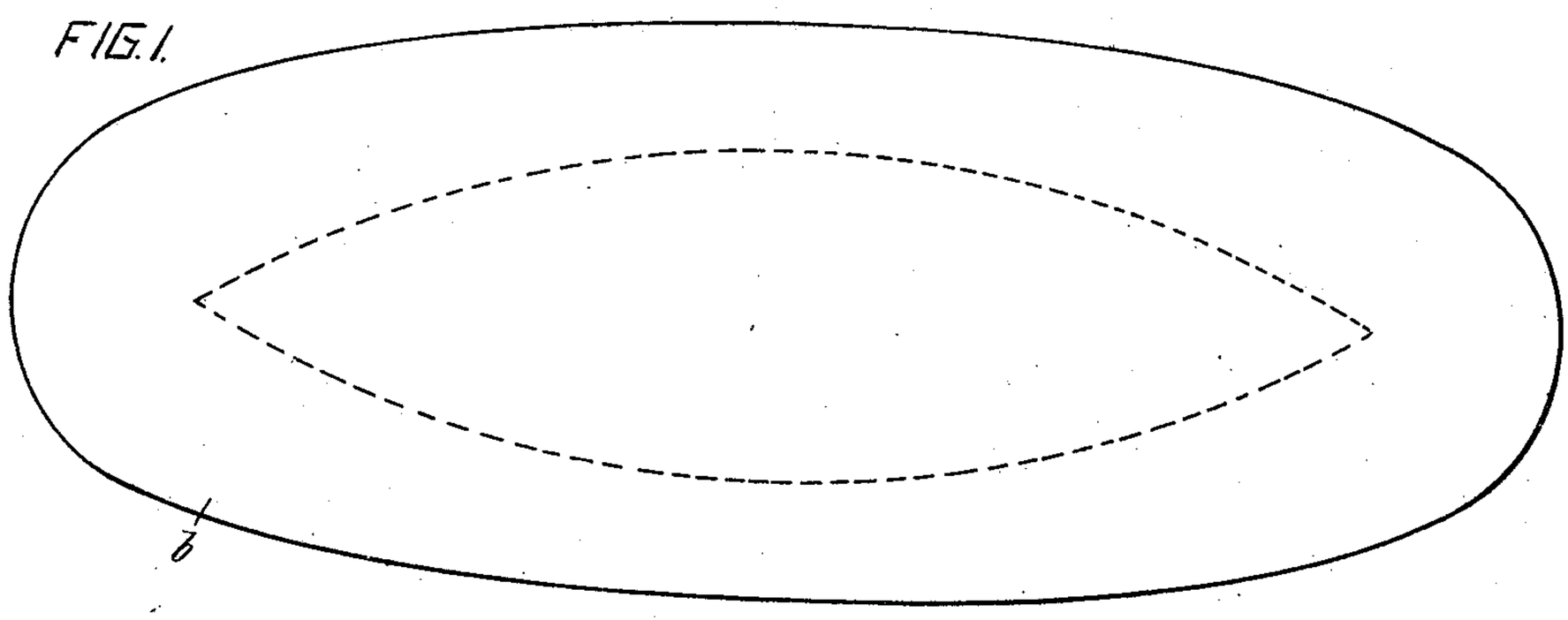


FIG. 2.

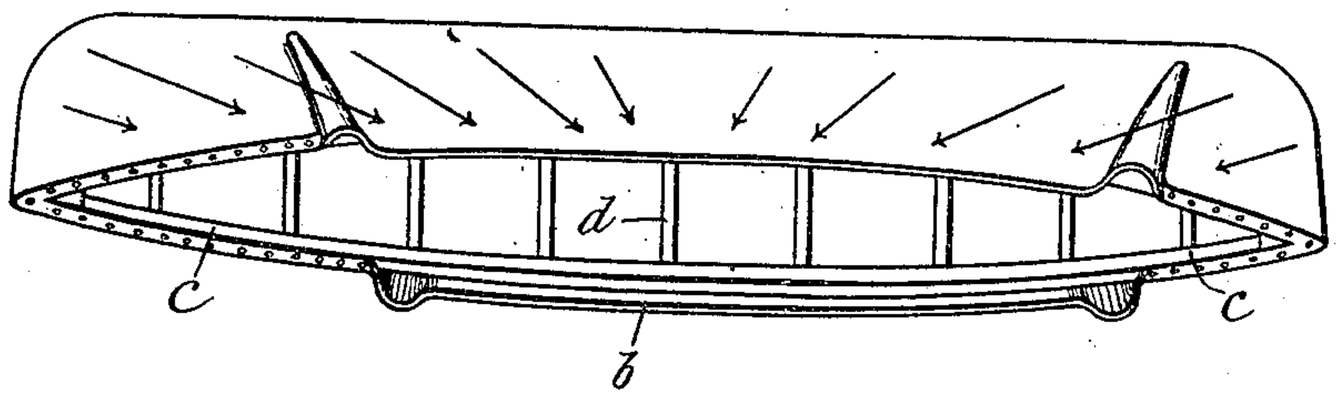


FIG. 3.

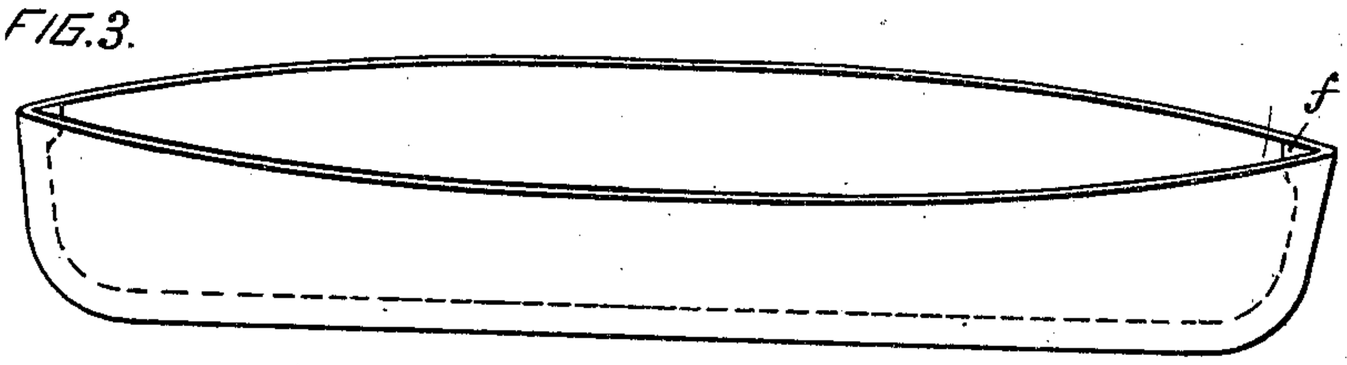


FIG. 5.

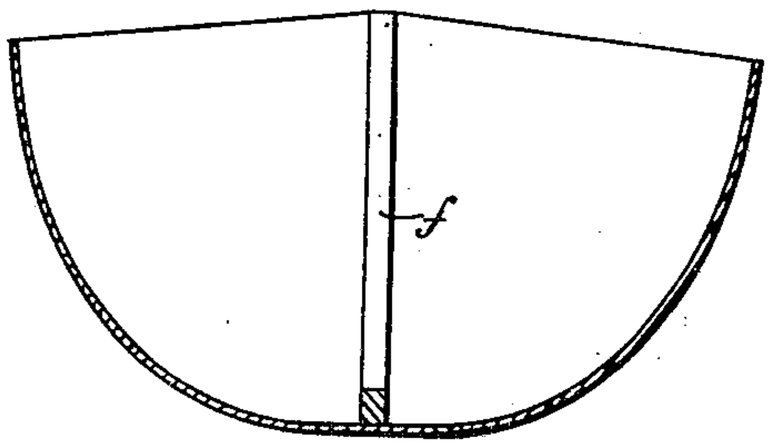
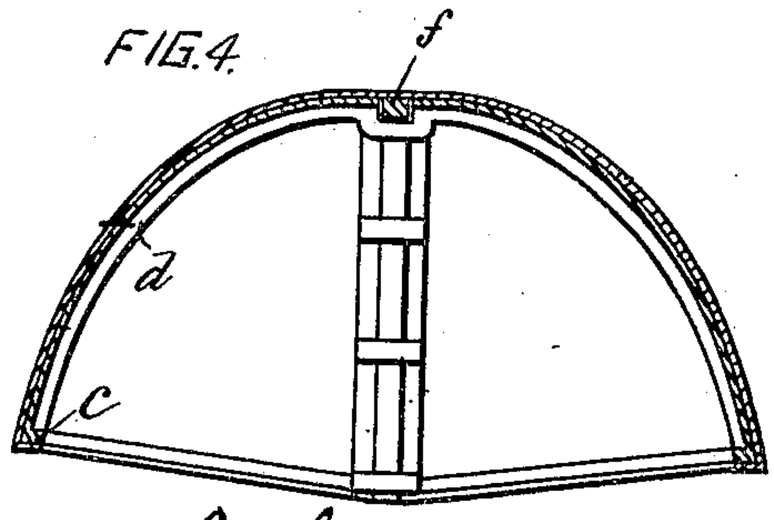


FIG. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN CHRISTOPHER NICHOL, OF MONTREAL, CANADA.

BOAT.

No. 825,340. Specification of Letters Patent. Patented July 10, 1906.

Original application filed May 21, 1902, Serial No. 108,400. Divided and this application filed December 30, 1903. Serial No. 187,241.

To all whom it may concern:

Be it known that I, JOHN CHRISTOPHER NICHOL, of the city of Montreal, district of Montreal, Province of Quebec, Dominion of Canada, have invented certain new and useful Improvements in Boats; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates particularly to molded boats of the type disclosed in Letters Patent of the United States granted May 1, 1900, under No. 648,467; and it has for its object to provide a more durable boat and one which can be made in much less time than heretofore.

The invention may be said briefly to consist of a boat made of saturated felted fabric and without seam or joint.

For full comprehension, however, of my invention reference must be had to the accompanying drawings, forming a part of this specification, in which like symbols indicate the same parts, and wherein—

Figure 1 is a plan view of the blank from which my improved boat is molded with the mold dotted beneath it. Fig. 2 is a perspective view of the blank and mold with the boat partially molded. Fig. 3 is a perspective view of the complete molded boat. Fig. 4 is a transverse sectional view of the molded boat upon the mold, and Fig. 5 is a transverse sectional view of the boat removed.

In order that my invention may be clearly understood, it is necessary that, besides disclosing my improved boat itself, the method of making same should be set forth.

The boat consists of a single piece of saturated felted fabric molded into boat form without seam or joint and is illustrated particularly in Figs. 3 and 5.

In constructing my improved boat the blank of felted fabric is first saturated with a solution of shellac or other suitable substance and then preferably allowed to stand for sufficient time to allow the superfluous solution to be absorbed, the time required varying with different thicknesses of felted fabric. The blank is then stretched over the mold, the ends being first attached by tacks or otherwise to the bow and stern portions of a rail *c* upon the mold *d*, and which runs completely around the mold slightly apart from, but upon or within the gunwale-line. After the ends are attached the fabric is smoothed back therefrom toward midships, as indicated by arrows in Fig. 2, the edge of the blank being attached to the rail as the smoothing progresses. Before the manipulation or smoothing process has reached midships the slack will have been completely taken up and the felt will be tightly upon the mold. The boat and mold are then run into a kiln, where the former is thoroughly dried and when removed from the mold is ready for the usual fitting and furnishings.

I prefer to set the keel *f* in a recess in the mold and attach the ends of the blank thereto first and independently of the attachment to the rail. When the completed shell is stripped from the mold it is not detached from the keel, which remains an integral part thereof.

The complete shell being without seam or joint is less liable to leak and is more durable than the usual boat-shell and can be more quickly manufactured.

I do not herein claim the method of making my improved boat, as it forms the subject-matter of an application filed by me on May 21, 1902, under No. Serial 108,400, of which this is a divisional part.

What I claim is as follows:

1. A boat-shell molded from seamless felted fabric saturated in a solution of resinous substance and having seamless and jointless ends and a keel within and forming an integral part of such shell.

2. A boat-shell molded from a single layer of felted fabric saturated in a solution of resinous substances and having seamless and jointless ends and a keel within and forming an integral part of such shell, substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

JOHN CHRISTOPHER NICHOL.

Witnesses:
WILLIAM P. MCFEAT,
FRED J. SEARS.