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J. M. A. DEYDIER.

DEVICE FOR RENDERING SMALL BOATS UNSINKABLE.

APPLICATION FILED JAN. 29, 1904.

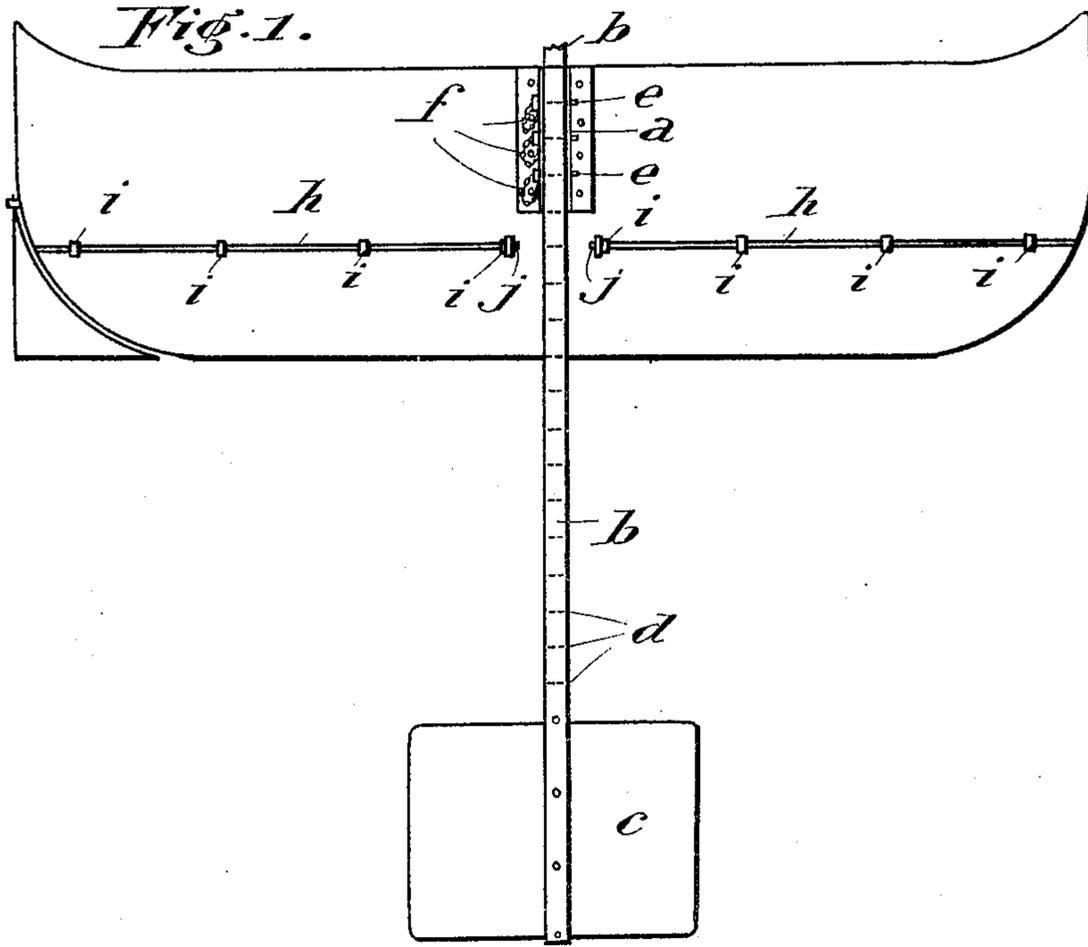


Fig. 2.

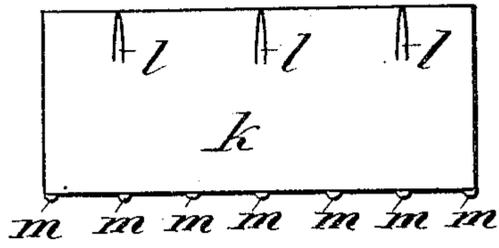
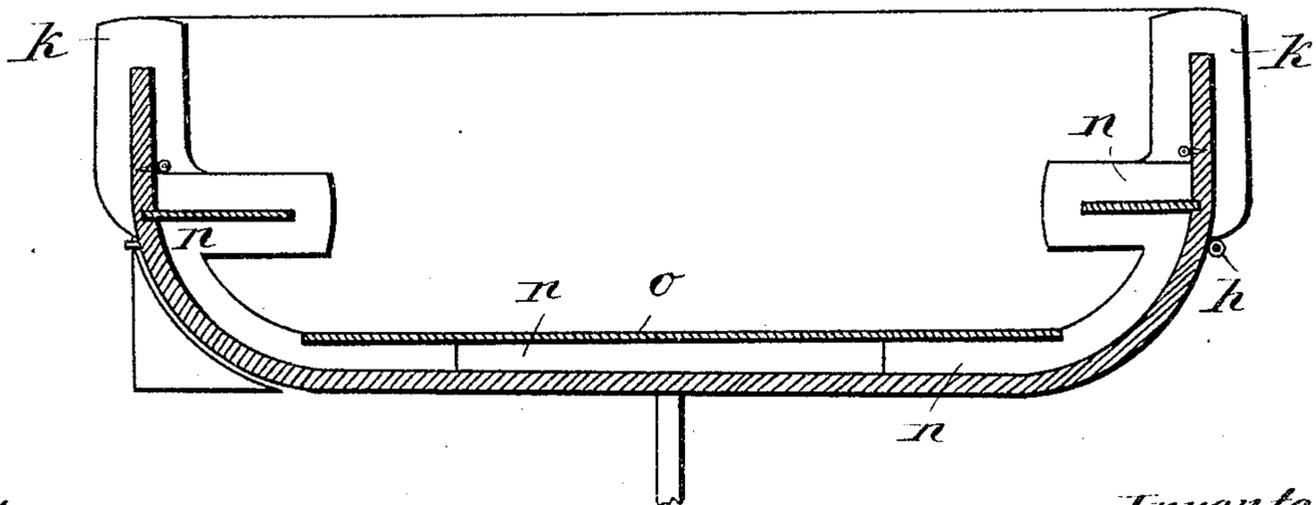


Fig. 3.



Witnesses:
William
Hellin

Inventor:
Joseph-Marie Augustin Deydier

per *L. Deydier*
Attorney.

UNITED STATES PATENT OFFICE.

JOSEPH MARIE AUGUSTIN DEYDIER, OF NYONS, FRANCE.

DEVICE FOR RENDERING SMALL BOATS UNSINKABLE.

No. 804,797.

Specification of Letters Patent.

Patented Nov. 14, 1905.

Application filed January 29, 1904. Serial No. 191,200.

To all whom it may concern:

Be it known that I, JOSEPH MARIE AUGUSTIN DEYDIER, a citizen of the French Republic, and a resident of Nyons, Drôme, France, have invented a certain new and useful Device for Rendering Small Boats Unsinkable and Non-Capsizable, of which the following is a specification.

This invention relates to devices whereby small boats are rendered unsinkable and non-capsizable.

The annexed drawings, given by way of example, show a form of this invention, and in which—

Figure 1 is an elevation view of a boat fitted with the aforesaid devices. Fig. 2 represents a cushion. Fig. 3 is a vertical longitudinal section of a boat fitted with these cushions.

Upon each of the boat's sides is fixed a sliding-socket *a*, in which freely slides a rod *b*, furnished at its lower end with a plate *c*. The said rod *b* is pierced with holes *d*, equidistant one from the other, whereby this rod may be fixed at any height in the socket by means of pins *e*, retained by short chains *f*. These movable plates, made of metal, wood, or metal and wood, assure the stability of the boat.

They can be submerged at different depths and when not required are withdrawn and placed inside or suspended to the outside of the boat. The boat is surrounded by a rod *h*, formed of several consecutive lengths and held in place by means of eyebolts *i* and nuts *j* screwed upon their ends. Eye-pins are fixed

to the inside of the boat for the attachment of the pads, one whereof is shown in Fig. 2, and which consist of cushions of waterproof and resisting material stuffed with wool, vegetable or natural fibers, cork shavings or powder, seaweed, wood shavings, straw, &c., mixed together or employed separately. These cushions are intended to pad the whole of the inside of the boat, as well as a portion of its outside.

Each cushion is furnished with attachment-cords *l* and rings *m*. The outer cushions *k* are attached to the boat in the following manner: The various parts of the rod *h* are withdrawn, the cushions are placed against the boat's sides, and the rod is replaced, care being taken to pass them through the rings *m*, which are inserted between the eyebolts *i*, and the cushions are retained upon the boat's side, then brought over the side into the boat, where they are attached by means of the cords *l*.

The inside cushions *n* have no rings, but attachment-cords laced through the aforesaid eye-pins, fixed to the inside. They pad the whole of the inside seats included above and beneath the same. They can also be superposed as long as they are not incommodious. Those placed at the bottom are protected by a waterproof covering *o*.

The rod *h* may be replaced by swivel-hooks, (not shown in the drawings,) screwed into the inside of the boat at distances corresponding to the rings *m* of the outside cushions or by eye-pins fixed in the same manner. The rings *m* are then replaced by attachment-cords. The swivels or eye-pins replacing the rod simplify the fixture of the outside cushions.

The above-described system permits relatively light metal boats to be used.

The materials vary according to the boats to which they are intended, such as pleasure-ships or fishing-boats; but the devices for the latter, although rather rough and cheap, are as efficient as the more or less luxurious ones for pleasure-boats. The dimensions of the cushions are calculated so as to render the boat unsinkable with a maximum load and in the most critical conditions.

In cases of great danger cords furnished with floats are attached to the inside of the boat. They serve for rescuing persons fallen into the water and, if necessary, to attach them to the boat. Canvas buckets, attached by means of cords, (not shown in the drawings,) are provided to bail out any water which may have entered the boat.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In an unsinkable boat the combination with the shell of rods composed of several lengths arranged on the outside of the boat, stuffed waterproof cushions provided with rings intended to be engaged by the said outer rods, means for securing said cushions to the inside of the boat after they have been bent over the edges of the boat-shell, cushions secured to all parts of the inside of the boat and a waterproof covering protecting the cushions placed at the bottom, substantially as and for the purpose described.

JOSEPH MARIE AUGUSTIN DEYDIER.

Witnesses:

ALLAN MACFARLANE,

HUBERT VIVIEN RIVIERE.