

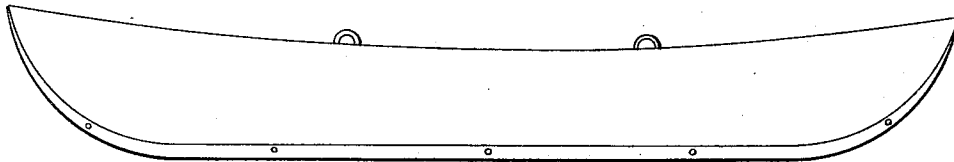
(Model.)

W. C. SOULE.  
SAFETY SURF BOAT.

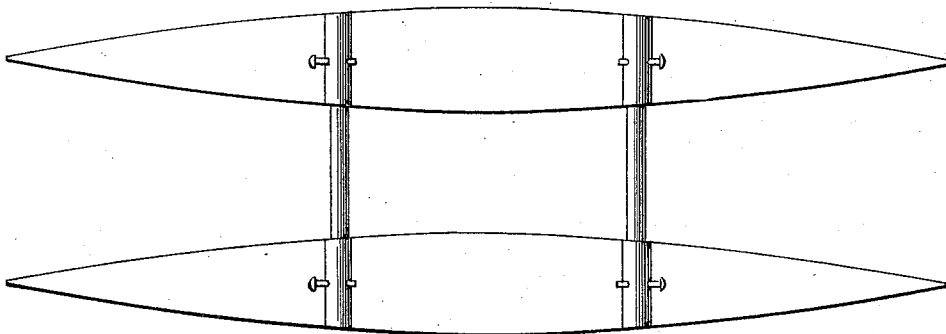
No. 478,650.

Patented July 12, 1892.

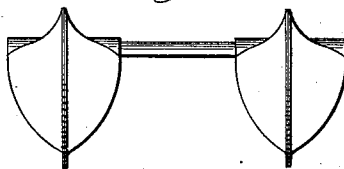
*Fig. 1.*



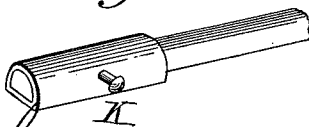
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses:

Addison P. Smith  
Fred W. Hadden

Inventor:

Willing C. Soule

# UNITED STATES PATENT OFFICE.

WELLING C. SOULE, OF SAVANNAH, NEW YORK.

## SAFETY SURF-BOAT.

SPECIFICATION forming part of Letters Patent No. 478,650, dated July 12, 1892.

Application filed September 8, 1890. Serial No. 364,373. (Model.)

*To all whom it may concern:*

Be it known that I, WELLING C. SOULE, a citizen of the United States, residing at Savannah, in the county of Wayne and State of New York, have invented a new and useful Safety Surf-Boat or Catamaran, of which the following is a specification.

My invention relates to improvements in form and construction of boats or catamarans, allowing each boat to be formed, folded, pressed, or stamped from one sheet of metal or other pliable material, thereby diminishing the cost and labor of construction and adding to the strength and durability. These boats are formed, folded, pressed, or stamped over or around a "last" or "model-form" by machinery well known to the stamping trade.

Figure 1 is a side elevation of the boat; Fig. 2, a top view of the same, and Fig. 3 an end view. Fig. 4 represents the cross-pieces, socket, and pin.

The mode of forming these boats is as follows: A piece of sheet metal the size required is first folded into a concave or U shape. The last or model-form is then placed in the hollow with the deck or upper part of model down, and both are placed in the stamping machine or former, where the metal is pressed into shape to conform with model with the addition of keel. When fully conforming to

model they are removed from the press and rivet-holes are punched along the keel J, Fig. 1. The boat is now sprung apart along the keel and the model-form removed and riveting done. The keel being double, allows one-half to be trimmed shorter than the other, the longer being folded over the shorter and soldered or brazed from stem to stern along the keel, where the only seam is found.

By fastening two of these boats together the safety surf-boat is made. The fastening is made by soldering, riveting, or otherwise fastening across the deck two tubes or sockets to each boat. Into these tubes or sockets are fitted the cross-pieces of wood or iron pinned through sockets and cross-pieces, making them firm and yet easy to separate for packing or shipping.

Having thus described my invention, I claim and desire to secure by Letters Patent—

A surf-boat with deck, sides, bottom, stern, and keel all made from one piece of sheet metal, so constructed as to have but one seam and that running down the ends and along the bottom, substantially as shown and described.

WELLING C. SOULE.

Witnesses:

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