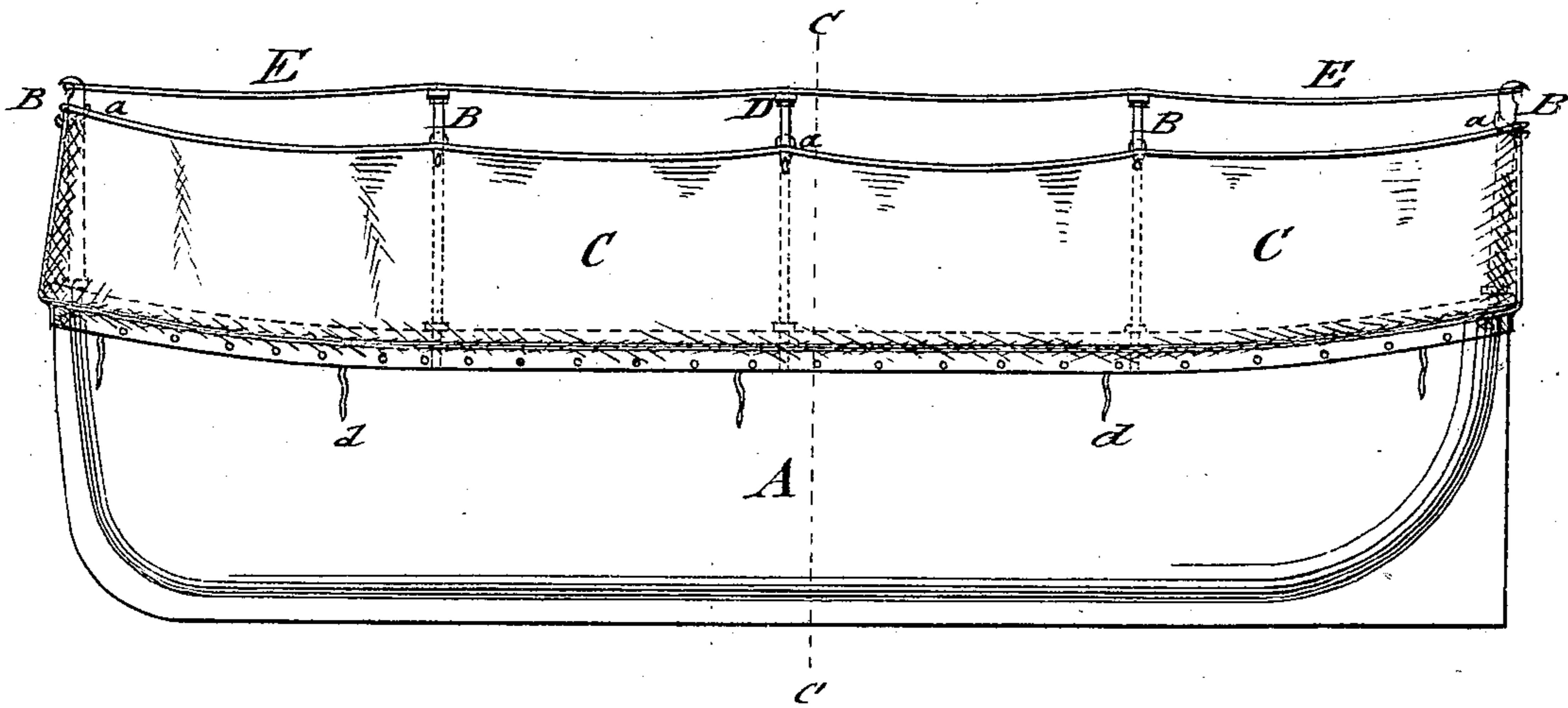


**J. R. ADAMS.**  
**Flexible Vertically Extensible Attachments for**  
**Boats.**

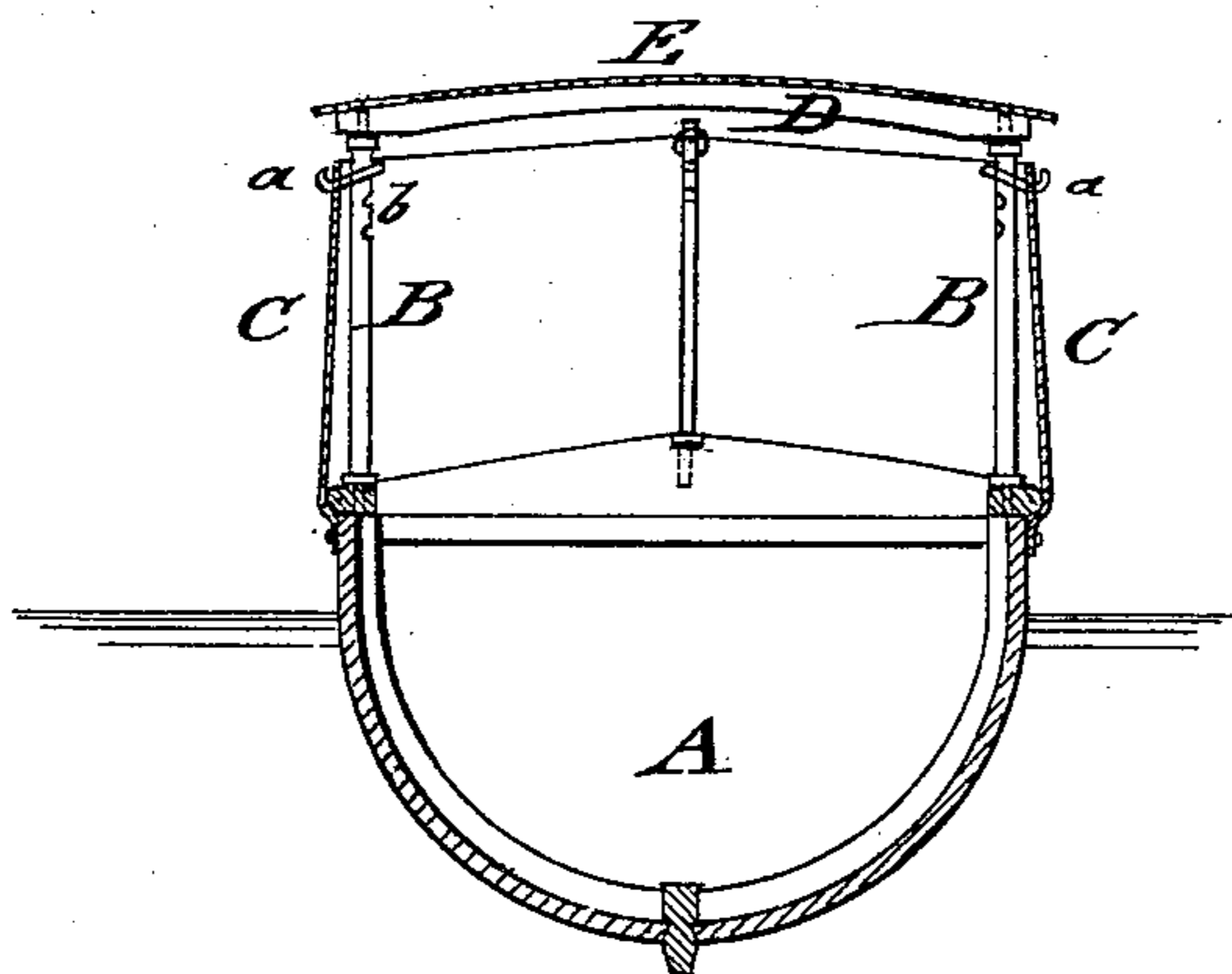
No. 143,052.

Patented September 23, 1873.

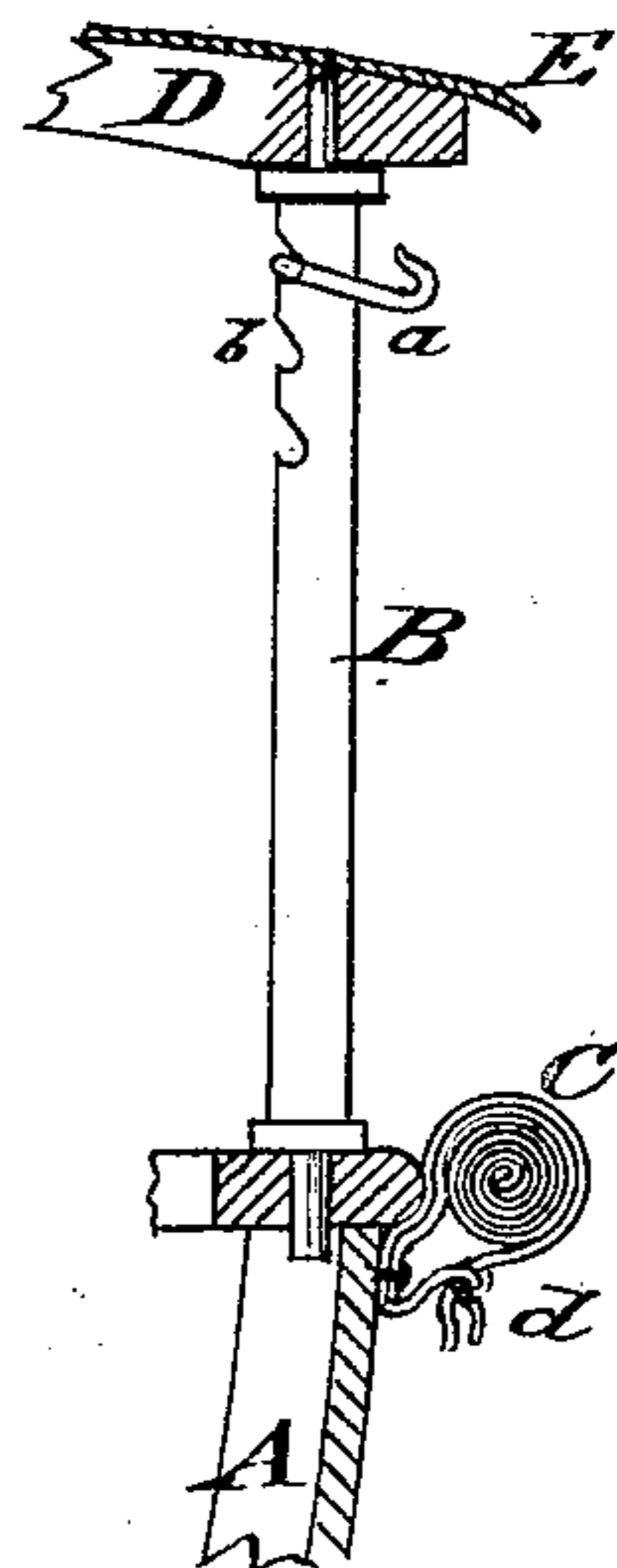
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



**Witnesses:**

*E. Wolff.*  
*Hedgcock*

**Inventor:**

*J. R. Adams*  
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# UNITED STATES PATENT OFFICE.

JOHN R. ADAMS, OF OAKLAND, CALIFORNIA.

## IMPROVEMENT IN FLEXIBLE VERTICALLY-EXTENSIBLE ATTACHMENTS FOR BOATS.

Specification forming part of Letters Patent No. **143,052**, dated September 23, 1873; application filed July 12, 1873.

*To all whom it may concern:*

Be it known that I, JOHN R. ADAMS, of Oakland, in the county of Alameda and State of California, have invented a new and Improved Life-Boat, of which the following is a specification:

In the accompanying drawings, Figure 1 represents a side view of my improved life-boat; Fig. 2, a vertical transverse section of the same on the line *c c*, Fig. 1; and Fig. 3, a detail side view of one of the upright supports which carry the top and side covering.

Similar letters of reference indicate corresponding parts.

The object of my invention is to improve the life-boats in such a manner that they protect the passengers more fully against the sun, waves, or rain, by means of a simple and detachable arrangement to the boat, which can be quickly put up and conveniently stored away. My invention consists in providing the life-boat with upright supports, which carry a top and side covering, attached in suitable manner to it.

A in the drawing represents a life-boat of the usual construction, to which the upright supports B are either hinged, so as to turn down into a recess of the top rail of the boat, or set into holes, to be taken out and bundled together for storing them away. The supports B are placed at bow and stern, and at suitable distance between them. An adjustable hook, *a*, slides along the same for taking up the side covering C, for which purpose the inside of the support B is provided with notches *b* near the top end, which serve as rest for the hook *a*. The pin-shaped ends of supports B fit into holes of the lateral pieces D, which are slightly arched and attached

in suitable manner to top cover E, which is made of suitable water-proof canvas. The bow and stern supports B have hook-shaped ends, by which they hold and stretch tightly the cover E. The side covering C is of the same material as top E, and riveted or otherwise applied along the outer top rails of the boat A. When not in use it is rolled up and secured by straps or cords *d*, to be quickly disconnected, and, after unrolling and stretching, be hung to hooks *a*. Its upper edge is strengthened by suitable lining, or provided with eyes for the hooks, as may be found most convenient.

When the sea is heavy the side covering will add a great deal to the safety of the persons in the boat by keeping the water out, that would otherwise fill and sink the boat. It protects also, together with the top, against the wind, heat, and rain, and may therefore be a means of saving many who would otherwise perish by the exposure.

The top cover E can easily be rolled up and stored away in some convenient place of the boat, if not needed, so that not too much room is occupied by it, though a great deal is added to the safety and efficiency of the life-boat.

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

The upright supports B having adjustable hooks *a* and notches *b* combined with lateral pieces D having top and side coverings C E, as and for the purpose described.

JOHN RESCO ADAMS.

Witnesses:

E. MUELLER,  
JOHN W. SESSIONS.