

# Lanning & Fletcher Life Boat.

N<sup>o</sup> 48,342.

Patented Jun. 20, 1865.

Long<sup>t</sup> Elevation  
of Section open.

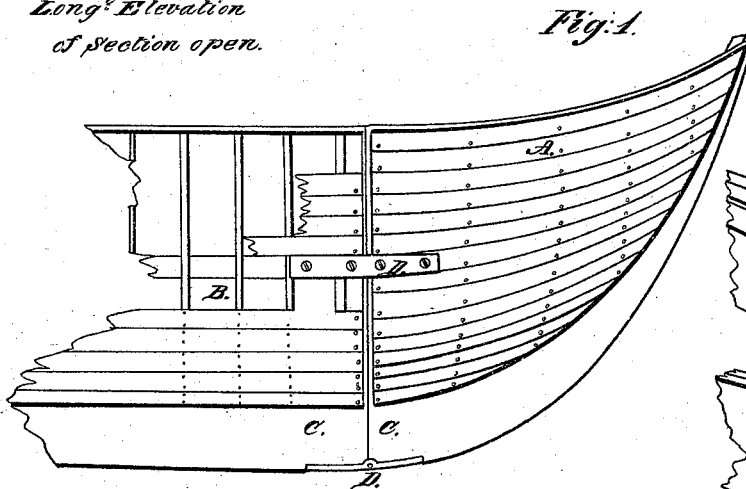


Fig. 1.

Fig. 6.

Section of Tubing  
open Joint.

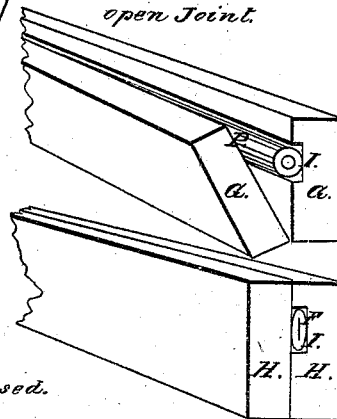


Fig. 2.

Section closed.

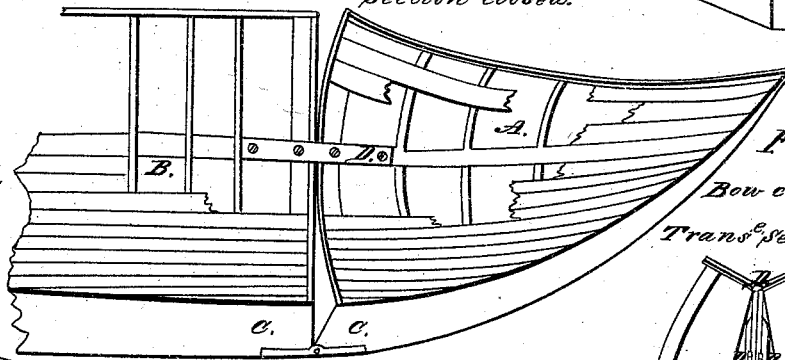


Fig. 5.

Perspective view  
of section of  
Side and Bow.

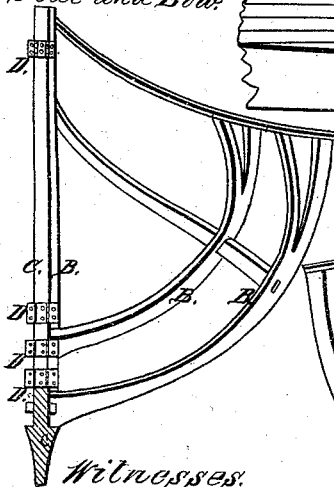


Fig. 4.

Bow closed,  
Trans<sup>c</sup> Section.

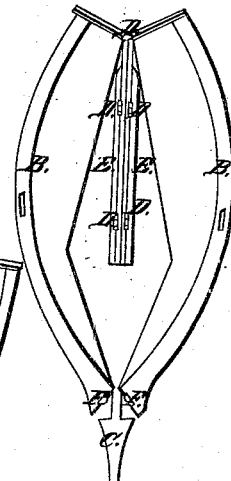
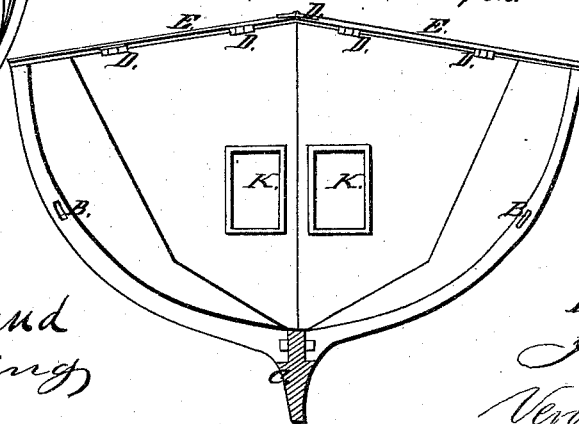


Fig. 3.

Transverse section of Bow open.



Witnesses:

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H. M. Lanning

Inventors:

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Vernon Fletcher

# UNITED STATES PATENT OFFICE.

JOSEPH H. LANING AND VERON FLETCHER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNORS TO VERON FLETCHER.

## IMPROVED SECTIONAL FOLDING BOAT.

Specification forming part of Letters Patent No. **48,342**, dated June 20, 1865; antedated June 15, 1865.

*To all whom it may concern:*

Be it known that we, JOSEPH H. LANING and VERON FLETCHER, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and Improved Mode of Constructing Folding-Up Boats; and we do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a longitudinal section of the boat open. Fig. 2 indicates said section closed. Fig. 3 indicates a transverse section of bow open, showing a bulk-head. Fig. 4 is a view of Fig. 3 closed, minus the bulk-head. Fig. 5 is a perspective view of section of bow and side frame of a boat. Fig. 6 indicates a view of the vulcanized india-rubber tubing with section of joint open, and Fig. 7 indicates Fig. 6 closed.

The letters A in Figs. 1 and 2 indicate the bow and stern of a boat; Fig. 1, the open position; Fig. 2, the folded-up position.

Letter B in Figs. 1, 2, 3, 4, and 5 indicates the several positions of the boat, as herein set forth.

Letter C in Figs. 1, 2, 3, 4, and 5 indicates the keel of the boat in its several positions.

Letter D in Figs. 1, 2, 3, 4, and 5 indicates the hinges and where affixed so as to form the folding-up boat.

Letter E in Fig. 3 indicates the bow-deck when the boat is open. The same letter in Fig. 4 indicates the bow-deck when the boat is folded up.

Letter F in Figs. 6 and 7 indicates the vulcanized india-rubber tubing fixed in the joints.

Letter G in Fig. 6 indicates a section of the

boat-joint when the boat is folded up, showing the vulcanized india-rubber tubing F in the groove I.

Letter H in Fig. 7 indicates Fig. 6 when the boat is adjusted for immediate use.

One of the edges of each joint must have a groove in it, (groove I, Fig. 6,) in which must be affixed the vulcanized india-rubber tubing. When the boat is adjusted for use the un-grooved edge will press upon the tubing affixed in the groove, thereby forming a perfect water-tight joint.

The open or adjusted position of the boats built upon this plan will be maintained or kept intact by the several seats, cut fitting for that purpose, which must be removed from their beds when the boat is to be folded up.

Boats built upon this plan can be of any shape and size.

What we claim as our invention, and desire to secure to our assignee by Letters Patent, is—

1. The peculiar manner of constructing boats of movable and adjustable sections, so connected with hinges, part thereof affixed on the inside of the boat and part thereof on the outside, so as to move in harmony with each other, whereby the boat can be opened and closed at will.

2. The combination of hinges, vulcanized india-tubing and movable and adjustable sections, for the purpose as hereinbefore more fully set forth, and substantially as described in both clauses.

J. H. LANING.  
VERON FLETCHER.

Witnesses:

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B. N. LANING.