

S. ELWELL, Jr.

Improvement in Boats.

No. 128,717.

Patented July 9, 1872.

Fig. 1

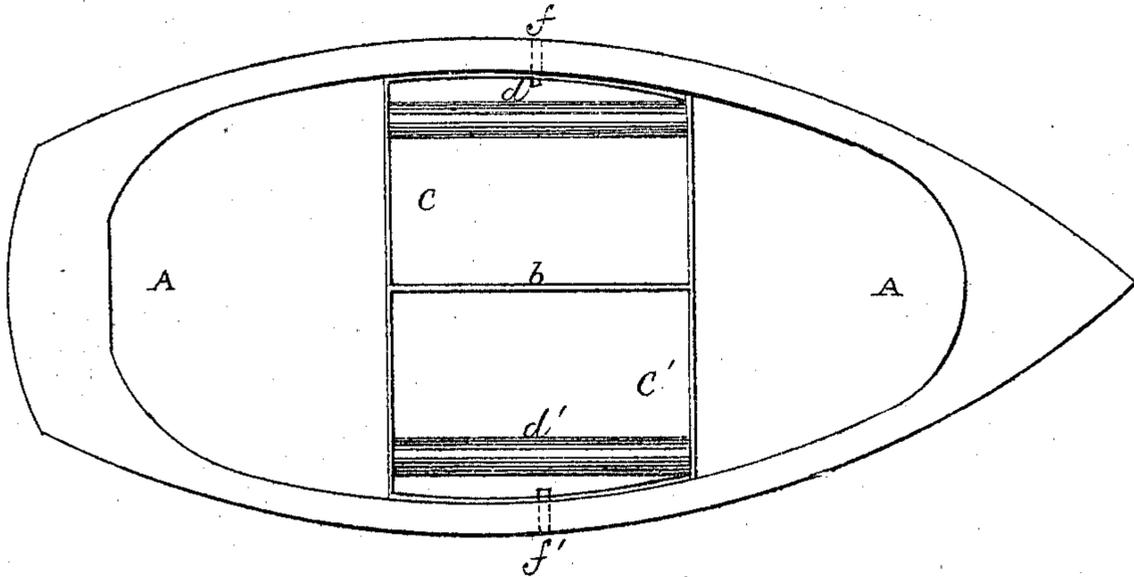
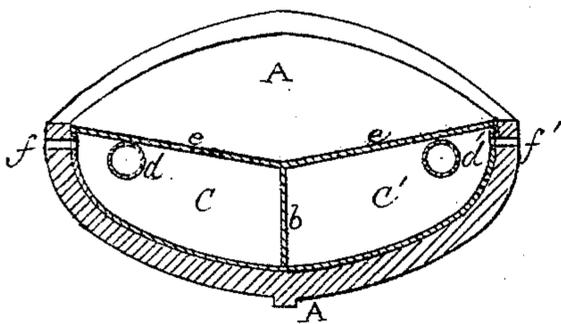


Fig. 2.



Witnesses

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# UNITED STATES PATENT OFFICE.

SAMUEL ELWELL, JR., OF GLOUCESTER, MASSACHUSETTS.

## IMPROVEMENT IN BOATS.

Specification forming part of Letters Patent No. 128,717, dated July 9, 1872.

### SPECIFICATION.

I, SAMUEL ELWELL, Jr., of Gloucester, in the county of Essex and State of Massachusetts, have invented certain Improvements in Boats, of which the following is a specification.

Figure 1 in the drawing is a top view with the cover removed, and Fig. 2 is a central transverse vertical section of my improved boat.

This invention consists in a boat having longitudinal air-chambers, separated by a central partition, and having also air-pipes extending lengthwise of said chambers and tubes extending from the chambers through the sides of the boat, for the admission and outflow of water, all as hereinafter specified.

A A in the drawing represent the hull of a boat, in the center of which is arranged a tank or reservoir, divided in the center by a vertical partition, *b*, into two compartments or chambers, C C', each of which is formed, near the top next the sides of the boat A A, with longitudinal air-tight tubes *d d'*. The tank or reservoir is provided with a water-tight cov-

er, *e e*. Through the sides of the boat A A near the top, connecting with the compartments C C', are one or more—as may be required—tubes or pipes, *f f'*. Water being introduced through the pipes *f f'*, or by any other suitable means, fills the compartments C C', so that the boat is evenly ballasted at all times. By means of the air-tight tubes *d d'* the boat is rendered safe from any accident liable to be caused by the overweight or shifting of the ordinary ballast in use.

Having thus fully described my improvements, what I claim as my invention, and desire to have secured to me by Letters Patent, is—

The combination, in a boat, of the air-chambers C C', pipes *f f'*, and tubes *d d'*, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL ELWELL, JR.

Witnesses:

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