

S. ELWELL, Jr.

Improvement in Boats.

No. 128,717.

Patented July 9, 1872.

Fig. 1

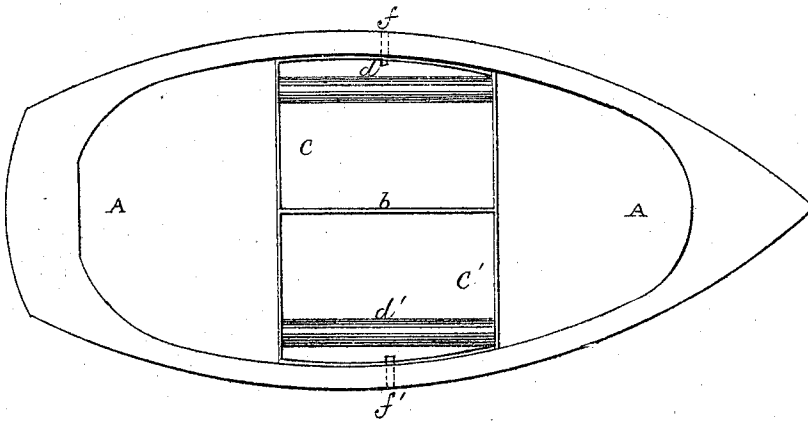
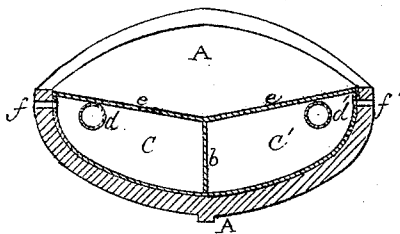


Fig. 2.



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, *c c*. 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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