

L. READ.
Center-Board for Vessels.

No. 200,934.

Patented March 5, 1878.

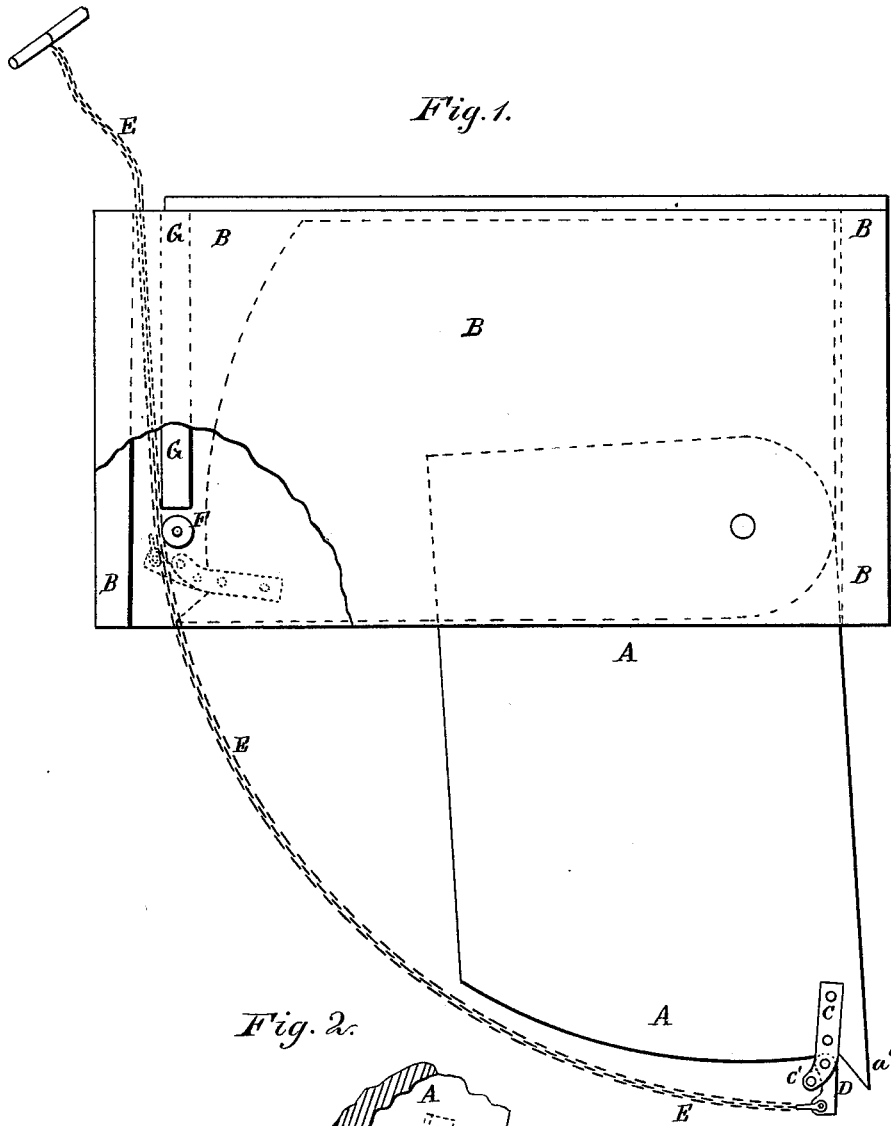


Fig. 1.

Fig. 2.

WITNESSES:
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LUTHER READ, OF HENDERSON, NEW YORK, ASSIGNOR TO HIMSELF AND
LORIN B. SIMMONS, OF SAME PLACE.

IMPROVEMENT IN CENTER-BOARDS FOR VESSELS.

Specification forming part of Letters Patent No. **200,934**, dated March 5, 1878; application filed
February 8, 1878.

To all whom it may concern:

Be it known that I, LUTHER READ, of Henderson, in the county of Jefferson and State of New York, have invented a new and useful Improvement in Center-Board and Box for Vessels, of which the following is a specification:

Figure 1 is a side view of a center-board and box, the board being shown down, and part of the box being broken away to show the construction. Fig. 2 is a detail perspective view of the lower rear corner of the center-board and its attachments.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish improved center-boards for vessels which shall be so constructed that they cannot jam, and which at the same time shall be simple in construction and easily and conveniently operated.

The invention consists in the combination of the bars or plates, the pivoted lever, and the chain with the lower rear corner of the center-board; in the point formed upon the lower rear corner of the center-board, in combination with the bars or plates, the pivoted lever, and the chain; and in the sheave placed in the lower rear part of the box, and the false post, in combination with the rear part of the said box, and with the chain, as hereinafter fully described.

A is the center-board, which is pivoted near its forward lower corner to the forward lower part of the box B. The rear lower corner of the board A is made with a projecting point, *a'*. To the rear lower corner of the center-board A, just above the point *a'*, are attached two bars or plates, C, the rear ends of which project, are bent upward, and are connected by a pin or rivet, *c'*. To and between the bars or plates C, and close to the edge of the board A, is pivoted the inner end of the short lever D, the outer end of which projects a little beyond the ends of the bars or plates C, and has the end of the chain E connected with it by a shackle, which shackle is so formed that it

cannot drop down below the end of the said lever.

The chain E passes up through the rear end of the box B and around the sheave F, pivoted in the lower part of the rear end of the said box B. G is a false post, which extends from the sheave F to the top of the box B.

With this construction the lever D, when the board A strikes the bottom, carries the chain aft as it slacks down, and the said lever D drops upon the point *a'*, and the shackle drops partly over the end of the lever D, so that the said chain will be clear of the board, and cannot be jammed between the board and the box, as the board is rounded up into the box. The false post G prevents the bight of the chain from dropping down in front of the sheave F, and being liable to jam. When the board is down, and the chain draws across the end and upper corner of the said board, the sheave F leads the said chain clear before the corner of the board enters the box. The sheave F also forms an angle in the chain when the board is down, lessens the friction, and makes a direct draft all the way up while the board is being raised.

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

1. The combination of the bars or plates C, the pivoted lever D, and the chain E with the lower rear corner of the center-board A, substantially as herein shown and described.

2. The point *a'*, formed upon the lower rear corner of the center-board A, in combination with the bars or plates C, the pivoted lever D, and the chain E, substantially as herein shown and described.

3. The sheave F, placed in the lower rear part of the box B, and the false post G, in combination with the rear part of the said box B, and with the chain E, substantially as herein shown and described.

LUTHER READ.

Witnesses:

A. M. KILBY,
E. TYLER.