

J. MANSIR.
Center-Boards for Vessels.

No. 148,726.

Patented March 17, 1874.

Fig. 1.

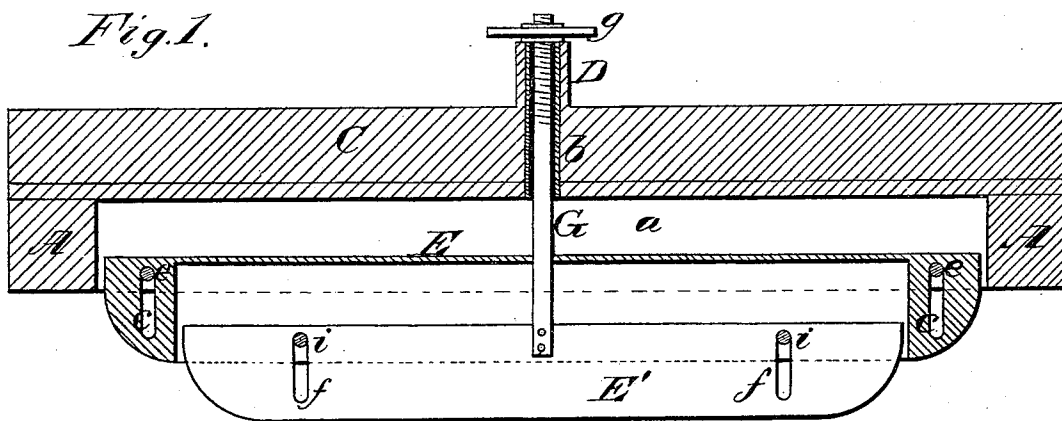


Fig. 2.

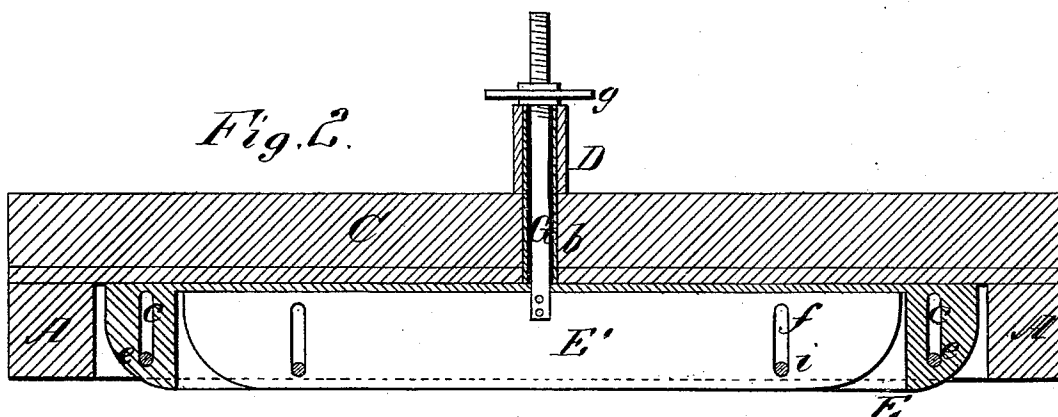
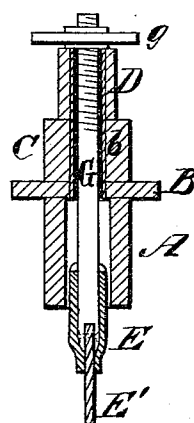


Fig. 3.



WITNESSES

E. H. Bates.
Rev. E. Upham.

B71

INVENTOR

Job Mansir
Chipman & Fosmire & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOB MANSIR, OF RICHMOND, MAINE.

IMPROVEMENT IN CENTER-BOARDS FOR VESSELS.

Specification forming part of Letters Patent No. **145,726**, dated March 17, 1874; application filed January 24, 1874.

To all whom it may concern:

Be it known that I, JOB MANSIR, of Richmond, in the county of Sagadahoc and State of Maine, have invented a new and valuable Improvement in Center-Boards for Boats and Vessels of all sizes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal sectional view of my device with center-board down. Fig. 2 is a longitudinal sectional view of the same with center-board raised. Fig. 3 is a transverse sectional view of the same.

This invention has relation to center-boards for boats and vessels of all sizes; and it consists in an adjustable sectional center-board, which is composed of a main or upper section, having a second or lower section applied in it by means of slots and guide-pins, in combination with a central rod, which is pivoted to said lower section, passed up through the keelson and stanchion, and provided with a screw-threaded hand-wheel on its upper end, as will be more fully explained hereinafter.

The following is a description of my improvement:

In the annexed drawings, A designates the keel of a boat; B, the garboard; C, the keelson, and D the stanchion. A slot, *a*, is made vertically and longitudinally in the center of the keel, and from the middle of the length of this slot a metal tube, *b*, rises vertically through the stanchion, and is applied water-tight thereto. E designates the main section of the center-board, which section is recessed to receive in it the section E', and it is also

slotted at *c c* to receive through it the pins *e e*, by which it is attached to the keel A. The section E' is shorter and thinner than the section E, into which it is received, and this section is slotted at *f f* to receive through it pins *i i*, by which it is connected to the section E. The pins *i i* may be surrounded by anti-friction rings, which will prevent the section E' from binding, and will allow it to play freely up and down. The section E' is pivoted at the middle of its length to the lower end of a rod, G, which passes through the section E, and through the tube *b*, and receives on its screw-threaded end an adjusting-wheel *g*. By means of this wheel the center-board sections can both be brought within the slot *a* in the keel A, and also adjusted so as to expose more or less surface below the keelson, as circumstances require.

The pivotal connection of the center-board to the rod G allows this board to vibrate longitudinally, and the slotted connections of the sections E E' allow them to play freely up and down.

My improved center-board is applicable to the sides of keels by using metallic guards therefor.

What I claim as new, and desire to secure by Letters Patent, is—

A center-board composed of sections E E', applied one within the other, both of which are vertically adjustable, while maintaining their horizontal positions by means of a single rod, G, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOB MANSIR.

Witnesses:

J. W. SPAULDING,
WM. H. STUART.