

C. HEMJE.

CONSTRUCTION OF SHIPS.

No. 174,675.

Patented March 14, 1876.

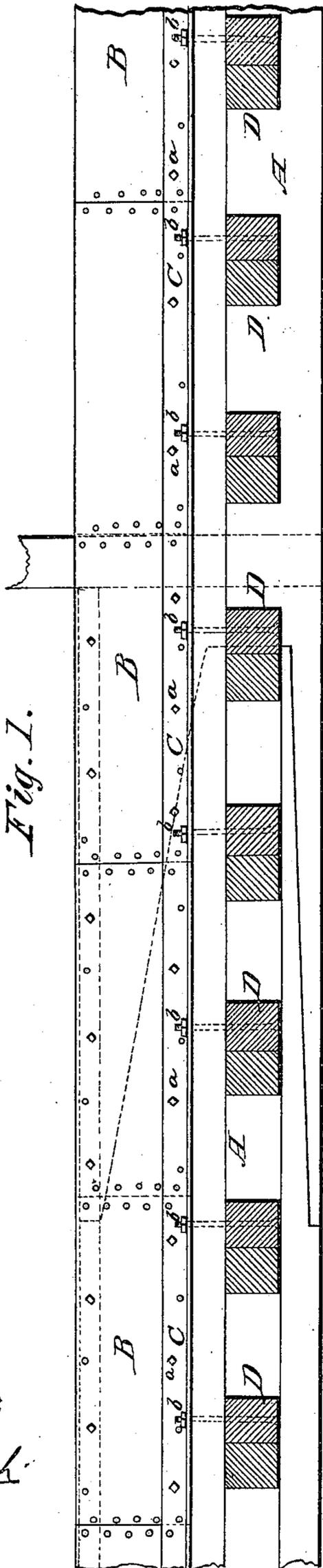
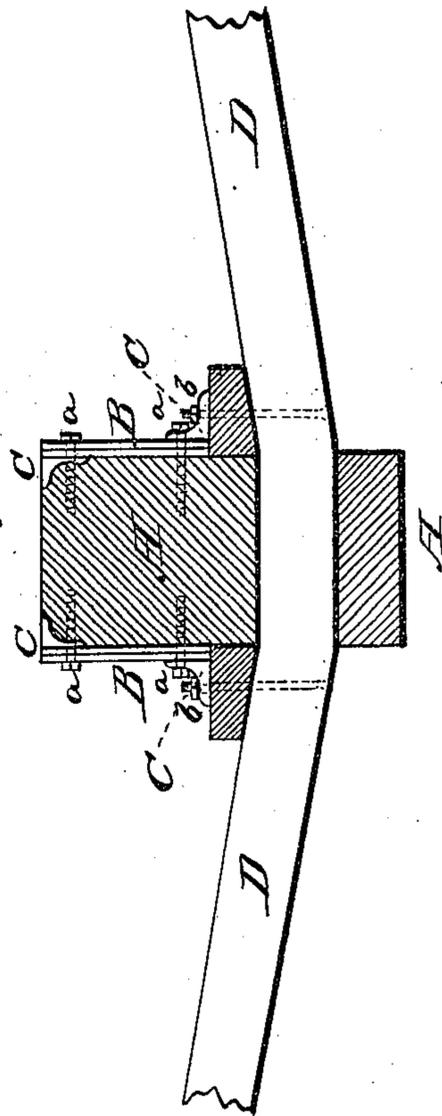


Fig. 2.



Witnesses:  
P. C. Dieterich  
F. H. Duffy

Inventors:  
Chas. Hemje

Per: C. H. Watson & Co. Attorneys

# UNITED STATES PATENT OFFICE.

CHARLES HEMJE, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND  
HENRY BESTE, OF LONDON, ENGLAND.

## IMPROVEMENT IN THE CONSTRUCTION OF SHIPS.

Specification forming part of Letters Patent No. **174,675**, dated March 14, 1876; application filed  
February 23, 1876.

*To all whom it may concern :*

Be it known that I, CHARLES HEMJE, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in the Construction of Ships; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to wooden vessels, and especially those of the center-board class, which are apt to "hogg" in course of time, and thereby decrease their sailing qualities, as well as render them unsafe; and the object of my invention is to do away with the extra wooden keelsons now used in such cases, which interfere too much with the stowing capacity of the vessel.

To this end the nature of my invention consists in providing the ordinary wooden keelson or keelsons with metallic plates and angle-irons along its sides, as will be hereinafter more fully set forth.

In the annexed drawing, Figure 1 is a longitudinal section, and Fig. 2 is a transverse vertical section.

A represents the ordinary wooden keelson, on each side of which, for such length as may be required, are run one, two, or more thicknesses of metal plates, B, placed so as to break joints, and riveted together so as to form, as it were, one plate when finished.

In order to give additional strength and stiffness, angle-arms C C are riveted to the plates B, either at the top or bottom, or both, if necessary, and the whole is then fastened to the sides of the keelson A by suitable bolts or fastenings *a*. Additional bolts *b* may be put through the floor-timbers D into the lower angle-irons, and riveted or screwed to the latter, thereby giving still more strength.

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

The angle-irons C, in combination with the metal plates B and keelson A, constructed and arranged as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

CHARLES HEMJE.

Witnesses:

JAMES C. CALDWELL,  
HENRY L. DAVIS.