

(No Model.)

J. M. O'BRIEN.

LIFE ROPE FOR VESSELS' BOOMS.

No. 359,028.

Patented Mar. 8, 1887.

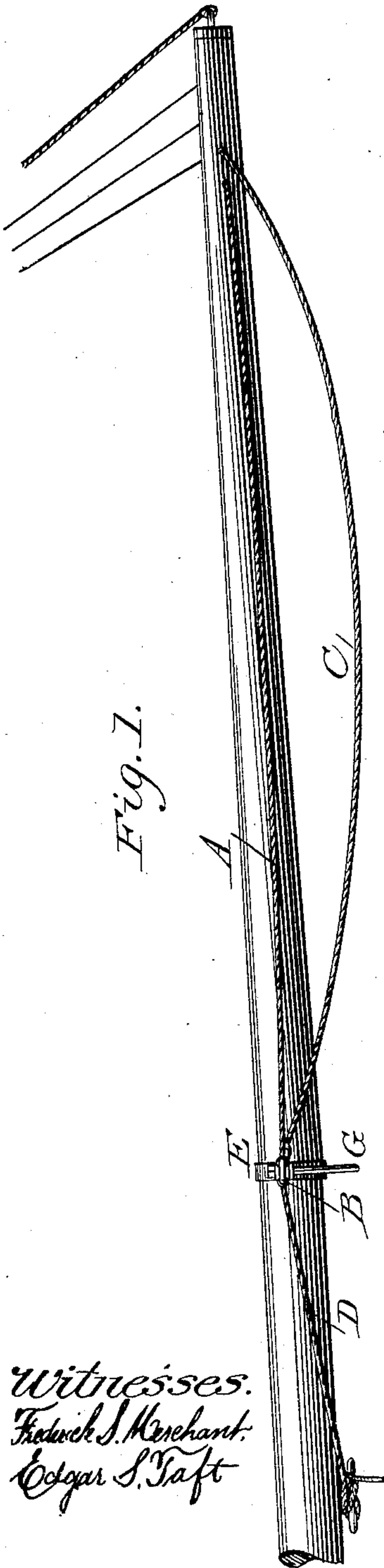


Fig. 1.

Fig. 3.

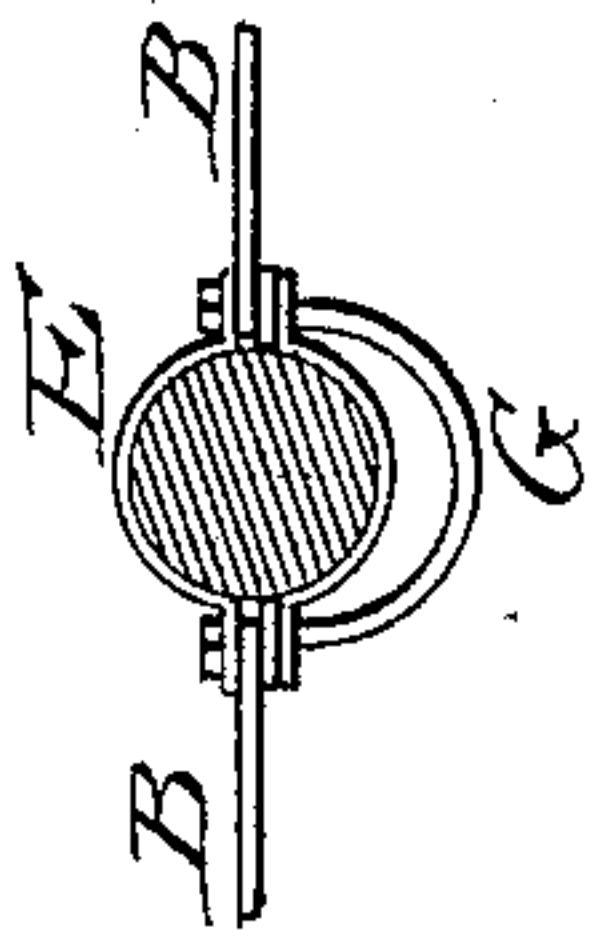


Fig. 2.



Witnesses.  
Frederick S. Merchant.  
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per  
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# UNITED STATES PATENT OFFICE.

JOHN M. O'BRIEN, OF GLOUCESTER, MASSACHUSETTS.

## LIFE-ROPE FOR VESSELS' BOOMS.

SPECIFICATION forming part of Letters Patent No. 359,028, dated March 8, 1887.

Application filed August 4, 1886. Serial No. 210,024. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN M. O'BRIEN, a citizen of the United States, residing at Gloucester, in the county of Essex and State of Massachusetts, have invented a new and useful Life-Rope for Vessels' Booms, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of boom with life-rope attached; Fig. 2, a top view of boom with life-rope attached; Fig. 3, a section of boom, showing outrigger.

Similar letters refer to similar parts throughout the several views.

The band E, with bail G and the foot-rope C, are attached to most booms, and form no part of my invention. The foot-rope C is generally hung so as to fall some distance below the boom.

The person furling or reefing the sail stands upon the foot-rope C and keeps himself from falling into the water by clinging onto the sail, which is often blown against him with sufficient force to break his hold.

The object of my invention is to render the process of furling and reefing sails on booms from foot-ropes attached to the booms (which in rough weather is extremely dangerous) comparatively safe, by providing a rope to lean against when furling or reefing, and something to catch onto when the hold on the boom or sail is broken by the action of the wind or sea.

I attain this object by means of the rope A, attached to the end of the boom and to the outrigger B. The outrigger is fastened to band E by screw-bolts in such a way as to swing backward and forward. When the outriggers are horizontal with boom, ropes A are drawn taut, are level with the boom, and will cross the back of a person standing on the foot-rope beneath the shoulders.

Outriggers are made to turn on bolts, so that when the life-ropes are not in use they will fall out of the way, the weight of the ropes drawing the outriggers backward against the side of the boom.

The outriggers are drawn into and kept in a horizontal position with reference to the boom by means of the lanyard D.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The life-rope herein described, one end of which is fastened to the boom near its outer end, the other end of which is fastened to outrigger B, which outrigger is attached to band E of the boom by means of bolts, and which is kept in position horizontal with boom by lanyard D.

JOHN M. O'BRIEN.

Witnesses:

EDGAR S. TAFT,

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