

(No Model.)

J. RAND.
TRAVELER FOR SAILS.

No. 259,209.

Patented June 6, 1882.

Fig. 1.

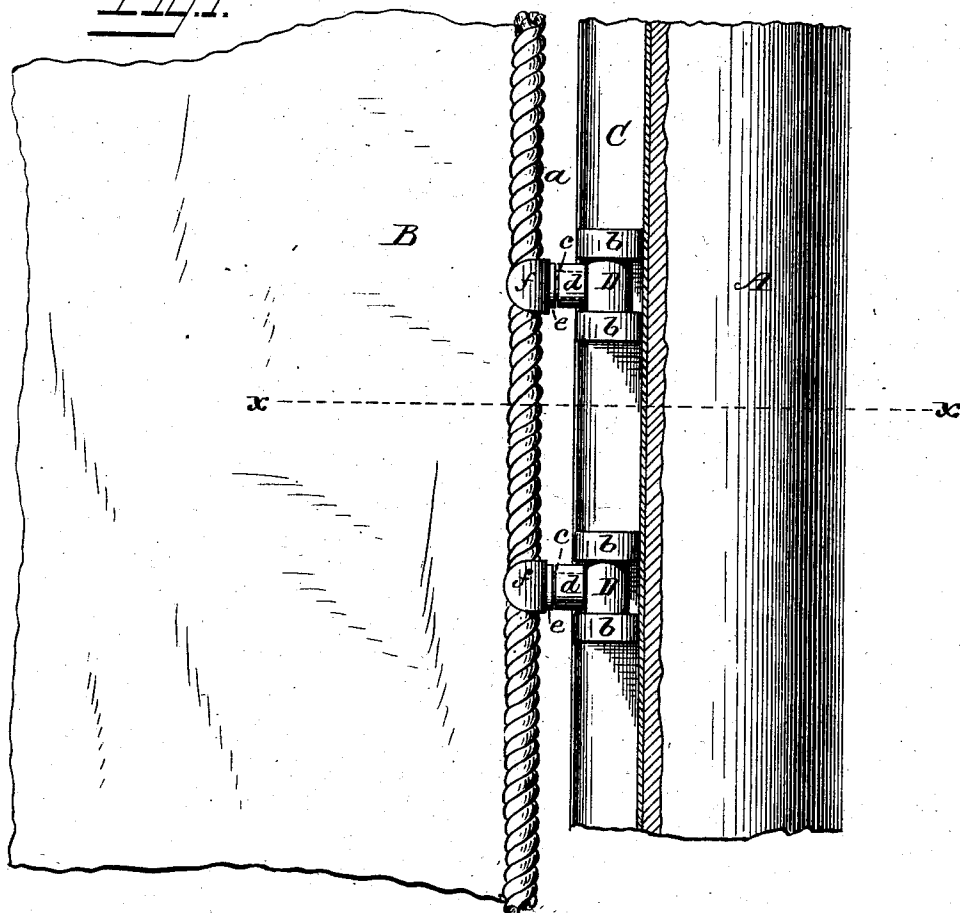


Fig. 2.

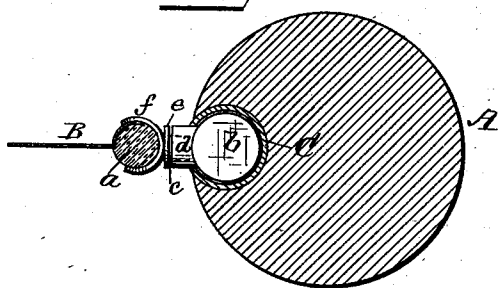
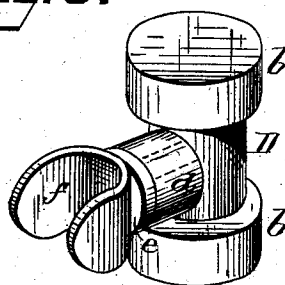


Fig. 3.



WITNESSES

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TRAVELER FOR SAILS.

SPECIFICATION forming part of Letters Patent No. 259,209, dated June 6, 1882.

Application filed February 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, JACOB RAND, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Securing Sails to Masts; and I do hereby declare that the following is a full, clear, and exact description 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 side elevation of my invention, partly in section; Fig. 2, a cross section taken on line *xx* of Fig. 1; and Fig. 3 is a detail view, in perspective, of the device for attaching to the sail.

The present invention has relation to certain new and useful improvements in that class of travelers employed for securing sails to masts and other spars, provided with anti-friction rollers working within a groove formed in the mast or spar; and the invention consists in the details of construction, substantially as shown in the drawings, hereinafter described and claimed.

In the accompanying drawings, A represents the mast of a vessel or other spar, and B the sail, secured in the usual manner to the sail-rope *a*. The mast A is formed with a longitudinal groove or channel, in which is fitted and secured a sectional tube, C, of any suitable metal.

The metal heads D, which are cylindrical in form, play up and down the sectional tube C, and are preferably cast, or otherwise formed, with circumferential rims *b*, so as to prevent as little as possible of the head D from coming in contact with the interior surface of the sectional tube, thereby greatly reducing the frictional contact of the metallic surfaces. The head D has a small cylindrical projection or axle, *c*, at right angles to its length, upon which is mounted an anti-friction collar or roller, *d*, held thereon by a circular cap, *e*, rigidly se-

cured to the outer end of the axle, or by the clamping plate or arms *f*, which are firmly bent around the rope *a* to connect the head A to the sail B. The collar or roller *d*, when the head D is in position in the sectional tube C, bears against the opposite edges of the same, which reduces the friction and guides the head up and down the tube when the mast is being lowered or raised.

The head A, with its adjuncts, is a very simple, neat, and effective device for connecting the sails to masts and other spars, and as there are no frictional rollers disposed within the tube C, but simply a solid cylindrical head, D, there is less liability of its getting out of order.

The sails may have any number of the heads D attached, according to the size and length of the sail, and may be made of different sizes, and of metal, wood, or other suitable material.

The sectional tube C may, if desired, be dispensed with without departing from the principle of my invention; but I prefer its employment as a means of rendering my invention more successful in its practical workings.

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

The cylindrical head D, having a cylindrical projection or axle, *c*, at right angles thereto, which projection or axle is surrounded by an anti-friction collar or roller, *d*, and has arms *f* outside of said collar, for attachment to the sail, which serve as a means for retaining the collar in place, substantially as and for the purpose set forth.

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

JACOB RAND.

Witnesses:

EDWARD J. JONES,
EDWARD J. JENKINS.