

# H. Townsend, Ship's Trestle Tree.

No 99,974

Patented Feb. 15, 1870.

Fig. 1.

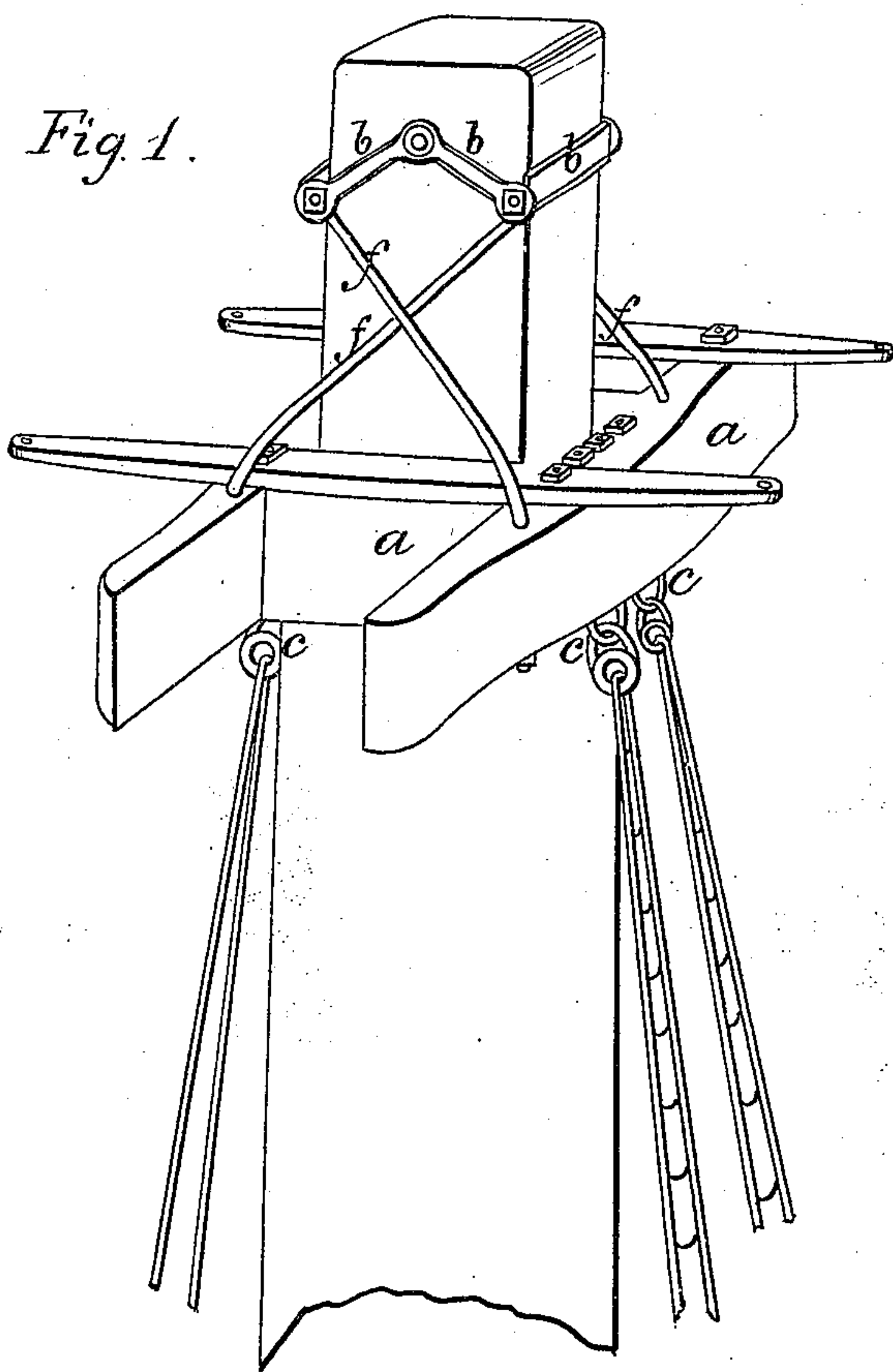


Fig. 2.

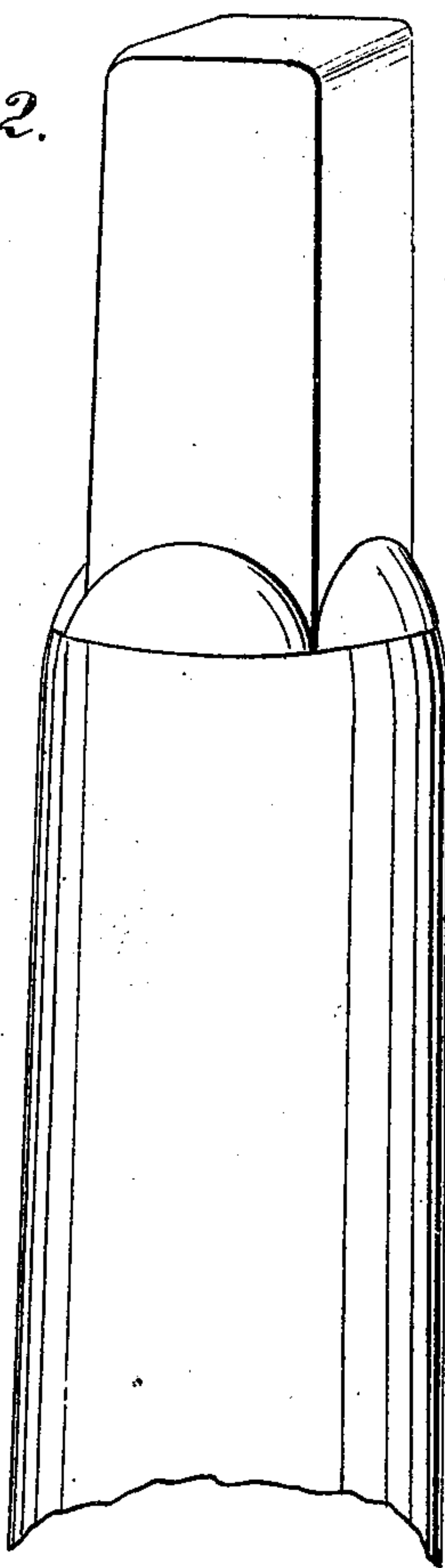
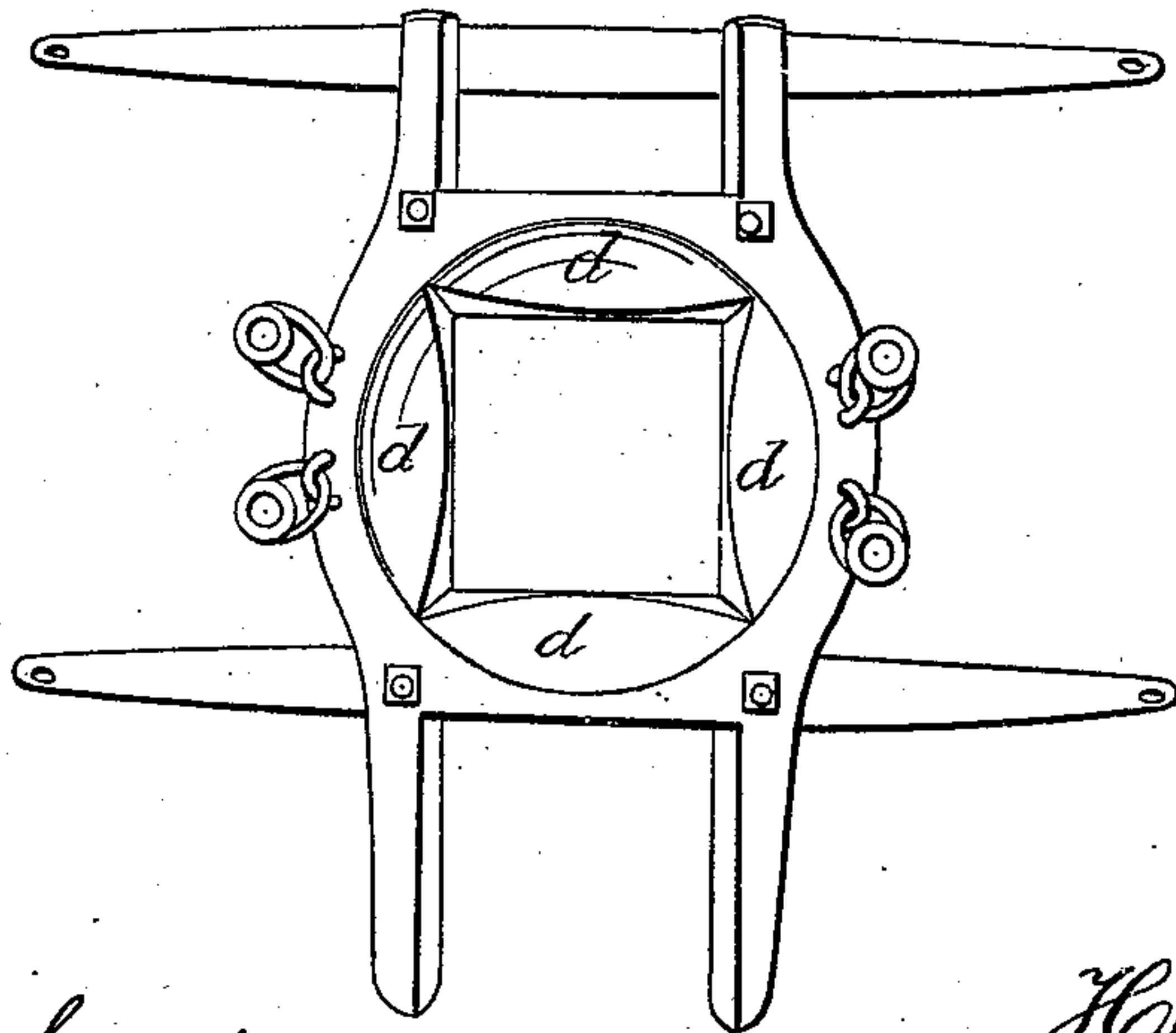


Fig. 3.



WITNESSES

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HENRY TOWNSEND, JR., OF PHILADELPHIA, PENNSYLVANIA.

*Letters Patent No. 99,974, dated February 15, 1870.*

## IMPROVEMENT IN TRESTLE-TREES FOR VESSELS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, HENRY TOWNSEND, of the city and county of Philadelphia, and State of Pennsylvania, have invented Improvements in Trestle-Trees and Ship-Rigging; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 represents a mast-head with the trestle-tree and stay-braces attached to a truss-clamp upon the mast-head.

Figure 2 shows the mast-head with beveled shoulders, that form a bearing for the trestle-trees.

Figure 3 is the underside of the trestle-tree, showing the beveled-shaped orifice that fits the shoulder of the mast-head.

The nature of my invention consists of an improved trestle-tree and stay-braces with a truss-clamp, so constructed as to strengthen the mast of a ship, and preserve it from decay at a place where they generally break; and for this purpose, I construct a trestle-tree of iron or cast-steel, or of any suitable metal, instead of wood, as heretofore used, and seat it firmly upon the beveled shoulders of the mast-head. By this means it forms a band of strength to the mast, whereas the old square shoulders form a receptacle for the water that runs down the mast-head, and the rack and jib of the old trestle-tree frequently split the mast at the shoulder from this cause.

To enable others to understand my invention, I refer to the drawings, in which—

Letters *a a* mark the trestle-tree.

The letters *b b* are the truss-clamps.

Letters *c c* are staples through the trestle-trees, to hold the shrouds.

Letters *f f* are stay-braces that make the truss-clamps fast to the trestle-tree.

Letters *d d* show the bevel in the trestle-tree, to fit the shoulder of the mast-head.

It will be seen that this truss-clamp *b b* can be used on any ship's mast, and attached to the jib stay-yoke of the foremast.

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

1. A metallic trestle-tree, with a beveled orifice, as shown at fig. 3 and letters *d d d d*, so as to form a band to a ship's mast, as shown at fig. 1 and letters *a a*, herein described.

2. A beveled shoulder to a mast-head, as shown at fig. 2, for the purpose set forth.

3. The combination of the truss-clamp *b b* and stay-braces *f f f*, with a mast-head and trestle-tree, all substantially as herein described.

The above specifications of my invention signed and witnessed at Philadelphia this 20th day of October, A. D. 1869.

HENRY TOWNSEND, JR.

Witnesses:

OWEN McDONALD,  
PETER ROHRBACHER.