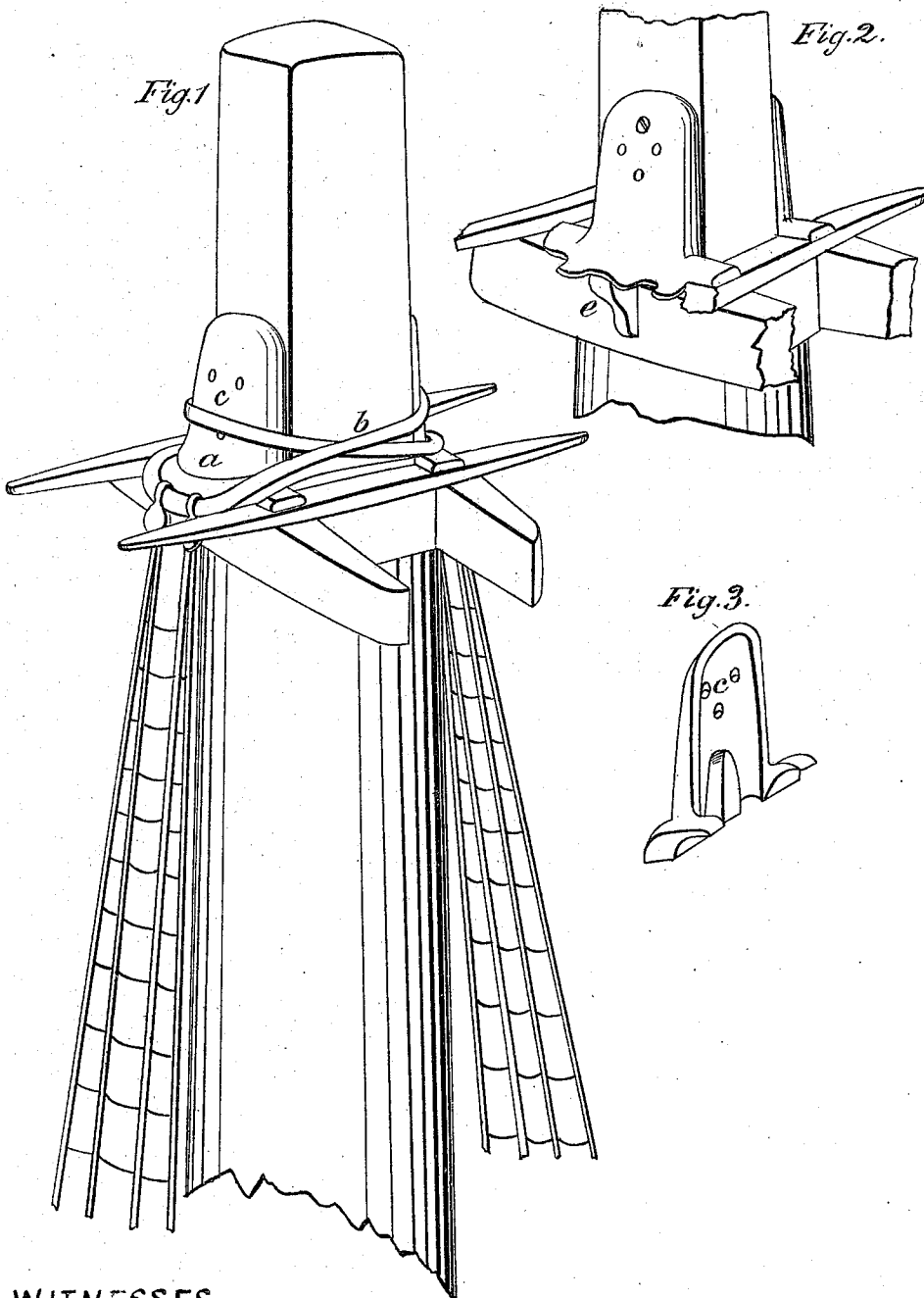


H. Townsend.

Mast & Spar.

N^o 100,819.

Patented Mar. 15, 1870.



WITNESSES.

Thos. Welcham
John F. Frenchard

INVENTOR.

Henry Townsend

United States Patent Office.

HENRY TOWNSEND, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 100,819, dated March 15, 1870.

IMPROVEMENT IN CHEEK-PIECES AND SHROUD-YOKES FOR SHIPS' RIGGING

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 Improved Cheek-Pieces and Shroud-Yokes for Ships' Masts; 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 and trestle-tree with the improved cheek-piece and shroud-yokes bearing upon elastic packing, and attached to the shrouds with a block and eye.

Figure 2 shows a bracket attached to the trestle-trees to form a bearing for the shroud-yokes, and is made fast to the trestle-tree, or is cast on the same when the trestle-tree is made of metal.

Figure 3 represents the cheek-piece, which is hollow on the back side to admit air between it and the mast.

The nature of my invention consists of making a cheek-piece for a mast-head of iron or any suitable metal, instead of wood, as heretofore, and iron yokes around the mast-head to hold the shrouds, instead of binding them around the mast in the old way, and also, of elastic packing applied to the bolster or trestle-tree to ease the strain of a sudden surge on the shrouds.

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

Letter *a* marks the cheek-piece as applied to the mast-head.

Letter *b*, the shroud-yokes around the mast-head, and bedded upon elastic packing.

Letter *c* marks the air-holes through the cheek-piece for ventilation.

Letter *e* is a bracket under the cheek-piece or bolster, and can be cast on the same and made fast to the trestle-tree to support the shroud-yokes.

The object of this invention is to preserve the mast, whereas the old kind of cheek-piece and bolster are blocks of wood, which absorb the water and rot the mast.

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

1. The combination of the metallic ventilating cheek-piece and bolster, as described, for the purpose set forth.
2. The shroud-yoke *b*, in combination with the cheek-piece and bolster, for the purpose herein described.
3. The elastic packing, in combination with a metallic cheek-piece or trestle-tree, for the purpose set forth.

The above specification of my said invention signed and witnessed at Philadelphia, this

Witnesses: HENRY TOWNSEND.
OWEN McDONALD,
JOHN REILLY.