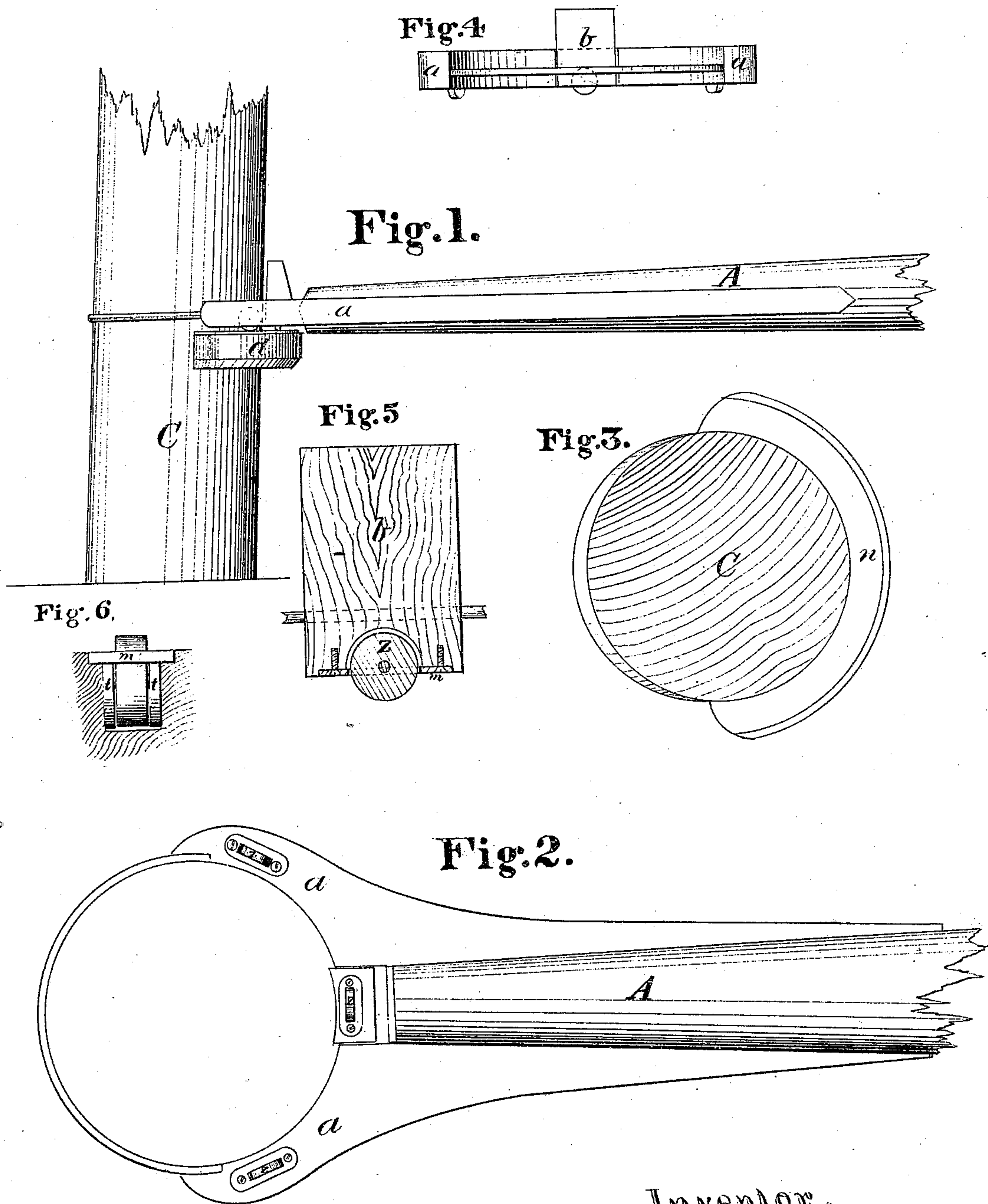


*E. G. Gaillac,*

*Boom.*

*No. 99,874.*

*Patented Feb. 15, 1870.*



*Witnesses.*

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# United States Patent Office.

EUGENE G. GAILLAC, OF CUTLER, MAINE.

Letters Patent No. 99,874, dated February 15, 1870.

## IMPROVEMENT IN BOOMS 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, EUGENE G. GAILLAC, of Cutler, in the county of Washington, and State of Maine, have invented a new and valuable Improvement in Apparatus for Protecting Vessels' Saddles and Booms from Chafing; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation 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 view of my invention.

Figure 2 is a bottom view of boom, showing the rollers.

Figures 3, 4, 5 and 6 are details.

My invention relates to the booms of ships, derricks, &c., and consists mainly in the adaptation of small rollers to the under side of the jaws of the boom, in such a manner as to prevent chafing on the saddle.

The letter A of the drawings designates a boom, having jaws *a a* and clapper *b*.

C designates the mast, to which a saddle, *d*, is secured.

Upon the upper end of the saddle is fixed a semi-circular metal plate or track, *n*, which is traversed by the rollers under the jaws.

Three rollers, *z z*, are generally employed, so arranged that there will be one under each arm of the jaws and one in the centre, under and attached to the pivoted clapper *b*.

Each roller is pivoted between the cheeks *t* of the plate *m*, and these cheeks are formed sufficiently broad to insure the upright position of the rollers on the track. The plate *m* is let into the countersunk wood, and screwed firmly thereto.

According to the present practice the jaws of the boom rest immediately upon the saddle, whereby both saddle and boom become worn in short time by the chafing.

My invention is designed to obviate this evil, and while I prefer the method above described of attaching the rollers, I do not desire to confine myself thereto, for sometimes it might be necessary, on account of the delicacy of the jaws or for other reasons, to reverse the arrangement and attach the rollers to the saddle.

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

1. The rollers *z z* herein described, arranged to operate between the jaws of a boom or gaff and the mast saddle, as specified.

2. In combination with the clapper *b*, the roller *z*, secured to its lower end, as and for the purposes specified.

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

EUGENE G. GAILLAC.

Witnesses:

ISAAC WILDER,  
GEO. W. MCFADDEN.