

A. GILL.

Improvement in Connections of Booms to Masts.

No. 114,128.

Patented April 25, 1871.

Fig. 1.

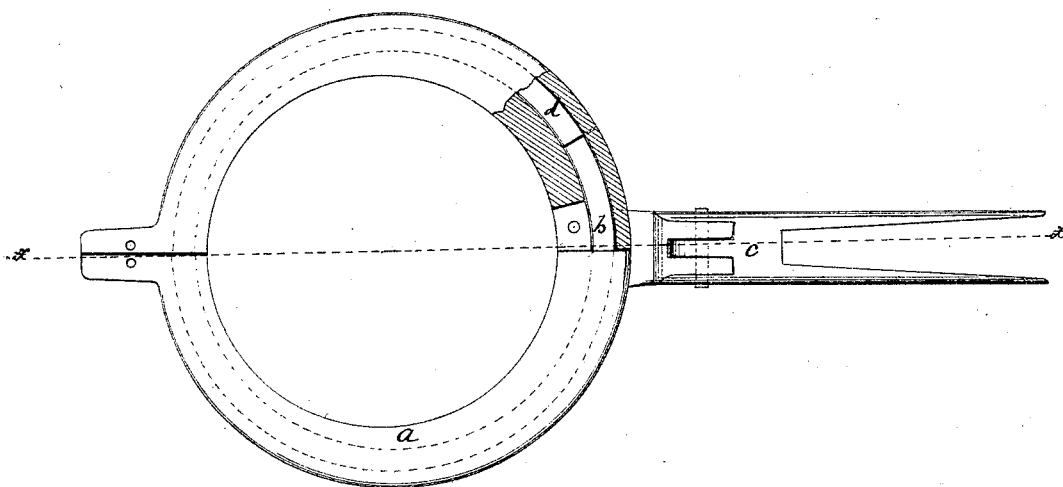
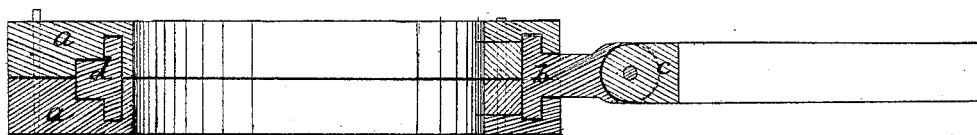


Fig. 2.



Witnesses
H. J. Smith
C. C. Brown

Alpheus Gill Inventor
by *Geo. E. Brown*
his Attorney

United States Patent Office.

ALPHEUS GILL, OF HOLMES' HOLE, MASSACHUSETTS.

Letters Patent No. 114,128, dated April 25, 1871.

IMPROVEMENT IN CONNECTIONS OF BOOMS TO MASTS.

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

I, ALPHEUS GILL, of Holmes' Hole, Duker county, Massachusetts, have invented certain Improvements in Means for Connecting Booms with Masts, of which the following is a specification.

Figure 1 is a plan view, and

Figure 2 is a transverse vertical section.

This invention has for its object to prevent the masts of vessels from being worn by friction of the booms; and

It relates to a saddle-band, which is intended to encircle the mast, and is constructed with a circumferential groove of proper form to receive a ring made in parts and of T-shape in cross-section, one of the parts of said ring being the jaw-piece to which the end of the boom is jointed, which jaw-piece, as the boom plays around the mast, slides horizontally in the groove of the saddle-band without touching the mast.

Referring to the drawings—

a is the saddle-band, made in two half-rings, which, when placed around a mast, may be connected, in any suitable manner, as by tongue-and-groove or by external projections which are fastened together so as to form a continuous ring.

Within this band a circumferential groove is formed of a depth not equal to the thickness of the ring,

which groove may be formed by casting the band on a core. The office of the groove is to receive the jaw-piece *b* of the boom *c*, and also to receive the sections *d*, which, with the jaw-piece, form a ring, T-shaped in cross-section, that lies within the groove, which is of the proper shape to receive and retain it. The saddle-band protects the inclosed ring from moisture, and prevents it from coming in contact with and injuring the mast as the ring slides horizontally in the groove.

By the present method of connecting booms with masts there is nothing interposed between the two, and masts are therefore subject to much friction from this cause, all of which is avoided by my invention.

The sections *d* prevent the groove from becoming clogged with whatever might obstruct the movement of the jaw-piece.

I claim as my invention—

1. The combination of the grooved saddle-band and the jaw-piece, as specified.

2. The combination of the grooved saddle-band *a*, the jaw-piece *b*, and the sections *d*, as described.

ALPHEUS GILL.

Witnesses:

THOS. N. HILLMAN.
ATLES P. BUNKER.