No. 737,118. PATENTED AUG. 25, 1903.

T. S. LAUGHLIN.

FASTENING DEVICE FOR BOOMS.

APPLICATION FILED APR. 9, 1903.

NO MODEL.

Fig. 1.

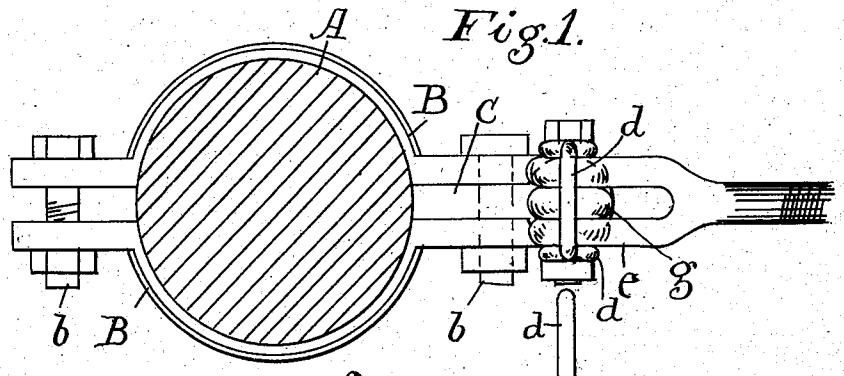
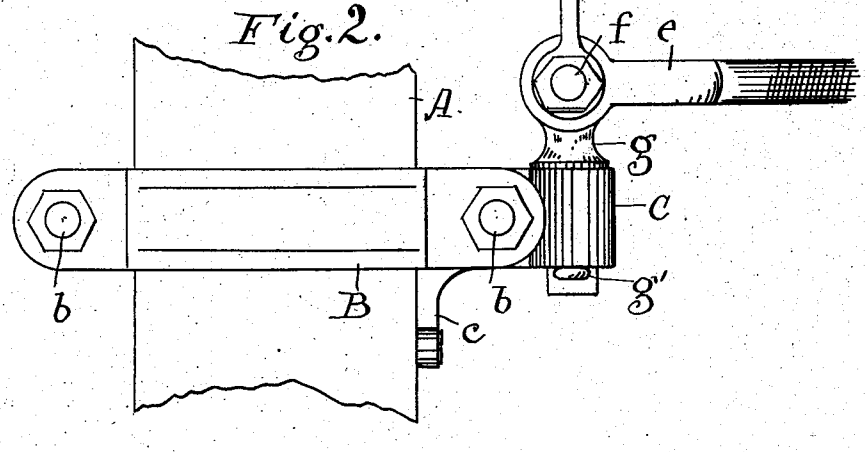


Fig. 2.



Witnesses
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No. 737,118. Patented August 25, 1903.

UNITED STATES PATENT OFFICE.

THOMAS S. LAUGHLIN, OF PORTLAND, MAINE.

FASTENING DEVICE FOR BOOMS.

SPECIFICATION forming part of Letters Patent No. 737,118, dated August 25, 1903.

Application filed April 9, 1903. Serial No. 151,726. (No model.)

To all whom it may concern:

Be it known that I, THOMAS S. LAUGHLIN, a citizen of the United States of America, and a resident of Portland, Cumberland county, State of Maine, have invented certain new and useful Improvements in Fastening Devices for Booms, of which the following is a specification.

My invention relates to a device for fastening the booms of yachts and other vessels to their masts.

Hitherto this has been commonly done by means of a band which was made in one piece with an eye or socket on the rearward side to receive the pintle to which the end of the boom was secured and by means of which it was pivoted. The ends of the band were fastened together forward of the mast by means of a bolt.

The object of my invention is to so form this connecting device that it will be just as strong and durable as the old device and it may be more cheaply and perfectly finished and more easily and quickly applied and removed.

According to my invention I form the band in two halves, which may be formed by the drop-forging process, and the socket for the pintle I form on a bracket, which is confined between the ends of the half-bands by the bolt which holds them together. The bracket has a projection extending downward by which it may be secured to the mast.

I illustrate my invention by means of the accompanying drawings, in which—

Figure 1 is a section through the mast, showing the fastening device in plan; and Fig. 2 is a side elevation of the same.

A represents the mast, and B the half-bands, the ends of which are secured together by bolts *b*. The rear ends of the two bands confine between them the bracket C, through which passes the bolt *b*. The bracket C has a projection *c* extending downward, adapted to be secured by a screw or other fastening means to the mast. On the outer end of the bracket is formed a socket, in which fits the pintle *g*, secured in place by a pin *g'*. To the upper end of the pintle is pivoted the screw *e*, which is adapted to enter the end of the boom. In addition to the screw *e* there is pivoted to the pintle the shackle *d*. The bolt *f* passes through the shackle, the screw, and the upper end of the pintle. It will be seen that these parts may all be made by the drop-forging process, and this may be more perfectly formed and finished than if the old band were used, which had to be forged by hand.

The entire device is easily put together, very strong, and adapted to be made by a drop-forging process.

I claim—

1. The herein-described device for fastening a boom to a mast, consisting of a pair of half-bands bolted together around the mast, a bracket confined between the two ends having a downward-extending projection adapted to be fastened to the mast, the outer end of said bracket being provided with a socket, a vertical pintle fitting said socket, a screw or bolt adapted to enter the end of the boom and a shackle both pivoted to the upper end of said pintle by means of a bolt.

2. The herein-described device for fastening a boom to the mast, comprising a pair of semicircular bands, each provided with oppositely-extending eyed lugs upon their ends, bolts removably securing said bands around the mast entering said eyes, a bracket mounted upon the forward bolt between the adjacent lugs of the bands and having a downwardly-projecting lug provided with an eye adapted to contact the mast, a screw entering said eye to secure the lug to the mast, said bracket also being provided upon its forward end with a vertical socket, a pintle pivotally mounted within said socket and an eyed lug projecting from the upper end thereof, a screw adapted to enter the end of the boom having eyed portions, a shackle having eyed portions, and a bolt adapted to pass through the eyed lugs of the pintle and the eyed portions of the screw and shackle for securing the shackle and boom carrying the screw to the pintle.

Signed at Portland, Maine, this 2d day of April, 1903.

THOMAS S. LAUGHLIN.

Witnesses:
B. G. WARD,
S. W. BATES.