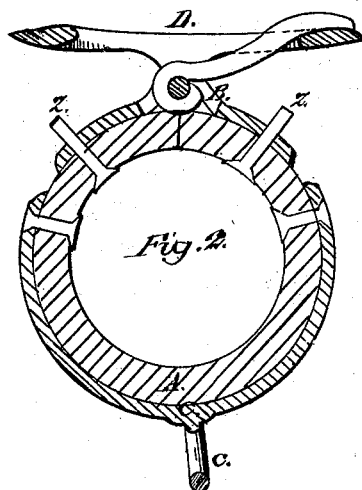
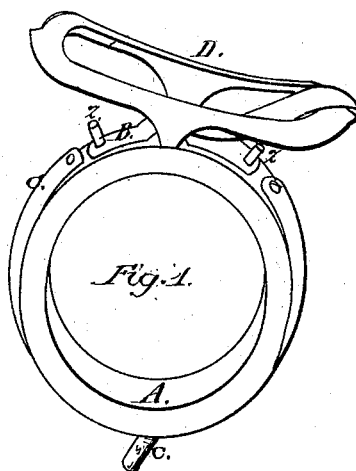


*H. Frazer.*

*Shaft Tug.*

*N<sup>o</sup> 110,911.*

*Patented Jan. 10, 1871.*



*Witnesses,*  
*N. B. Smith*  
*D. C. Harkness*

*Inventor:*  
*Harson Frazer*

# United States Patent Office.

KASSON FRAZER, OF SYRACUSE, NEW YORK.

Letters Patent No. 110,911, dated January 10, 1871.

## IMPROVEMENT IN SHAFT-TUGS.

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, KASSON FRAZER, of the city of Syracuse, New York, have invented certain new and useful Improvements in Shaft-Tugs which are designed to be improvements upon the shaft-tug for which I hold Letters Patent of the United States, dated May 28, 1867, and numbered 65,068; and I do hereby declare that the following is a full, clear, and exact description of the construction of the same, and the form thereof when complete and ready for use, reference being to the annexed drawings making a part of this specification, in which—

Figure 1 represents a perspective view, and

Figure 2, a sectional view thereof.

The letters used represent corresponding parts wherever they occur.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same.

I stitch together, or otherwise properly fit up, a leather strap, A, of the proper length, when doubled together, to encircle the shaft, the same as in my specification annexed to said Letters Patent granted to me as aforesaid; but, instead of inclosing the leather with a metal band in one piece, with an opening on one side to insert the buckle, I now inclose the same with the metal bands or supports B and C, constituting two parts, which, together, make a complete band when riveted to the leather.

Experience has shown that in my former invention,

secured as aforesaid, the buckle-bar cannot be so readily inserted in its place with the metal support in one piece, and with an opening on one side, as aforesaid, as it can when such support is made in two parts, in the present form which I now use. In this form I can supply the trade with a shaft-tug composed of the leather strap A and the two metal bands B and C, with the band C fully riveted to the strap A, but with the rivets Z Z in the band B left loose, so that any style of buckle D of the proper size may be readily inserted by merely loosening or taking out the rivets Z Z and slipping the buckle-bar under the band B. When this is done the rivets Z Z may be put in place and closed down in any common manner; or the buckles may be put in and the whole finished up before the tugs are put upon sale.

A loop, e, for the belly-band, may be added when required.

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

A shaft-tug composed of an inner ring, A, with the metallic sections B and C each separately riveted to said ring A, in the manner herein described and shown.

KASSON FRAZER.

Witnesses:

N. B. SMITH,

D. C. MARKHAM.