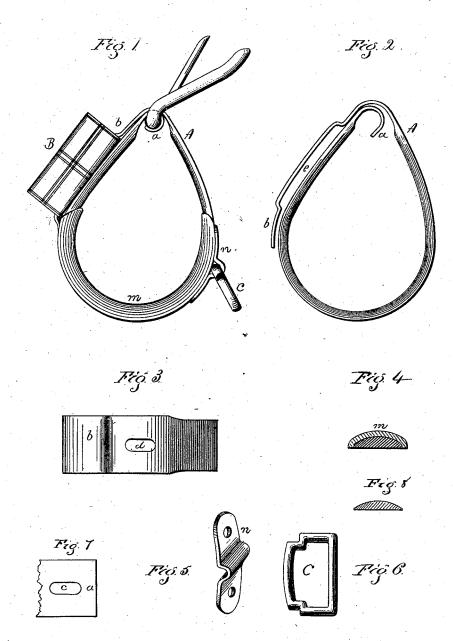
## H. SMITH.

HARNESS TUG.

No. 259,777.

Patented June 20, 1882.



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## UNITED STATES PATENT OFFICE.

## HENRY SMITH, OF NEW HAVEN, CONNECTICUT.

## HARNESS-TUG.

SPECIFICATION forming part of Letters Patent No. 259,777, dated June 20, 1882.

Application filed April 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY SMITH, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Harness-Tugs, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

strap buckle, leather loop, and metal loop to which the belly-girt is fastened. Fig. 2 is a view of the metal tug. Fig. 3 is a top view of the tug, showing a slot through which the tongue of the buckle passes. Fig. 4 is a cross-section of the tug and leather lining. Fig. 5 is a view of the plate for holding the metal loop to the tug. Fig. 6 is a view of the metal loop. Fig. 7 is a view of one end of the tug, and Fig. 8 is a cross-section of the tug.

My invention relates to new and useful improvements in harness-tugs; and it consists in a novel construction of the same, as shown in the drawings, and hereinafter described and

25 explained.

To enable others to make my improved tug in the way contemplated, I will give a detailed

description of the same.

The tug A, Figs. 1 and 2, is made of an iron bar having a flat and a rounded side, as shown in cross-section in Fig. 8. Its ends a and b are rolled downward and made flat on both sides. In the end a the slot c, Fig. 7, is formed. In the end b the slot d, Fig. 3, is formed, and the end is bent to form the space c, in which the leather loop B is clamped between the overlapping ends of the tug. The bar or tug is bent into proper form and so that the slot d is over the slot c, the end a being bent round the bar of the buckle and the end b overlapping, as shown in Fig. 2. The tongue of the buckle passes

through the slots c and d. A rivet passes through the end b, tug, and lining m, and fastens the parts together, clamping the leather loop B in the space e.

The leather loop B has its ends stitched together, is dampened, and pressed in a mold to give it the proper form. The leather lining m is formed in a similar way, and is fastened to the tug by the rivets which fasten the end b and the plate n to the tug. A good tug may be made without the lining; but it is better with it.

The plate n is formed to hold the metal loop C and to fit the tug, and is riveted to the tug. 55 The tug may be covered with leather, japanned, or nickel-plated, as desired.

I am well aware that harness-tugs have been made with a leather and metal lining and a strap surrounding both, and that metal tugs 60 of various forms of construction have been made; but

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

The metal tug A, having its end a bentround 65 the bar of the buckle, and provided with the slot c, through which the tongue of the buckle passes, also having its overlapping end b, provided with the slot d, through which the tongue of the buckle also passes, formed to make the 70 space c, in which the leather loop B is clamped and riveted to the side of the tug, and also having the metal loop C fastened to the tug by the plate n, riveted to the tug, substantially as shown and set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY SMITH.

Witnesses:
GEORGE TERRY,
DANIEL S. GLENNY, Jr.