

J. C. SEMLER.

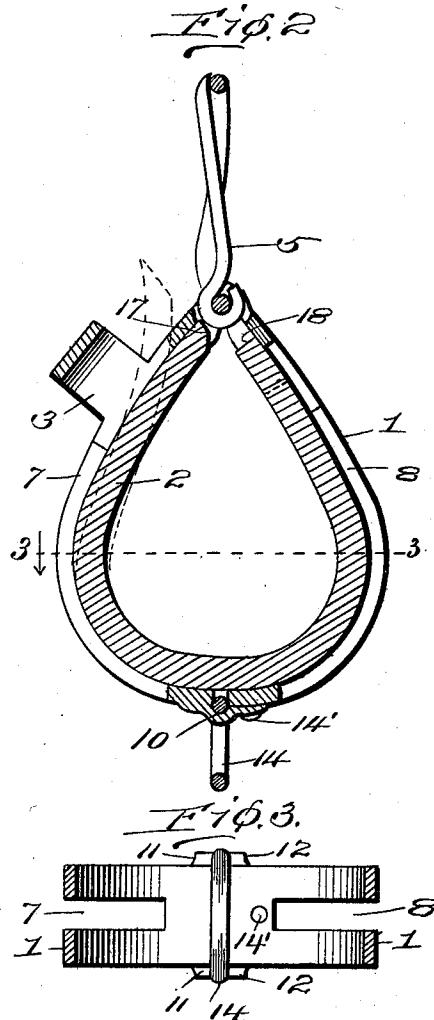
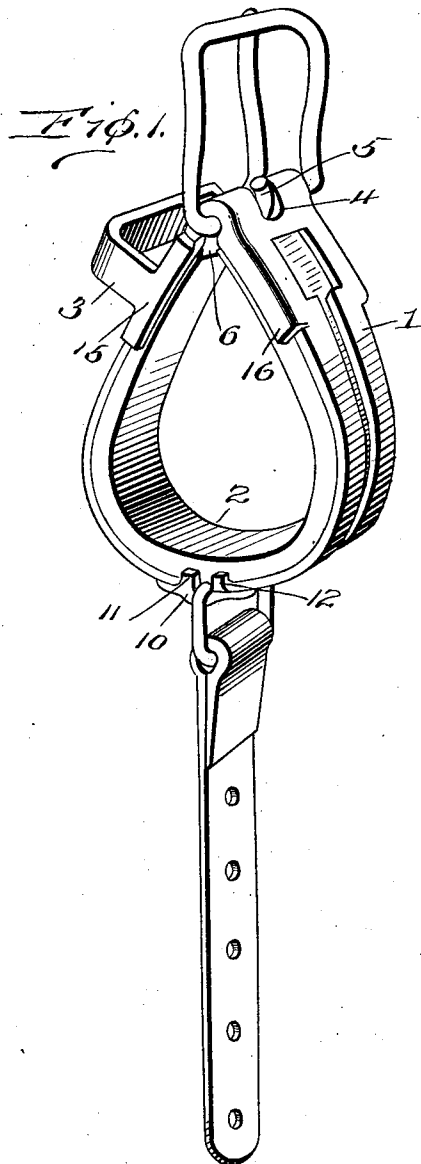
HARNESS TUG.

APPLICATION FILED JAN. 27, 1910.

1,000,760.

Patented Aug. 15, 1911.

2 SHEETS—SHEET 1.



Witnesses:

J. M. Fowler Jr.
R. M. Elliott

Inventor,

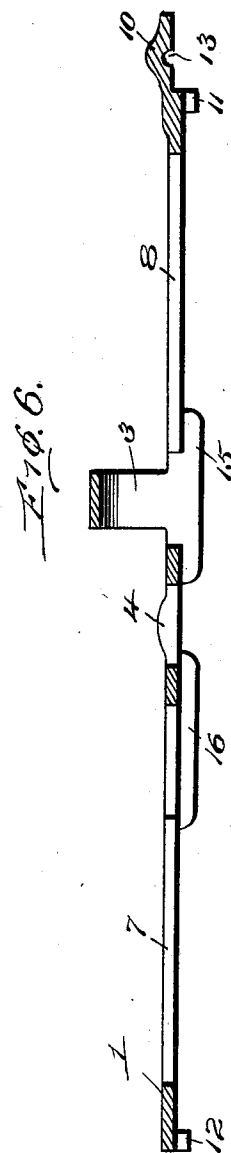
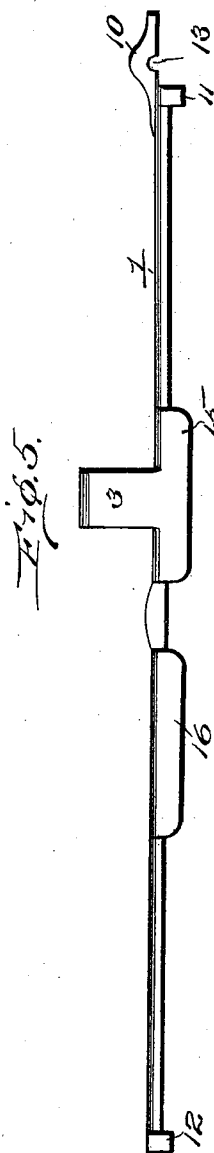
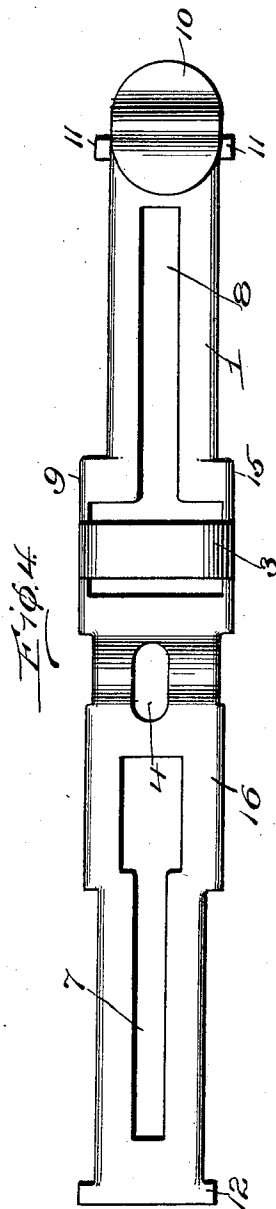
John C. Semler,
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Attorney.

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UNITED STATES PATENT OFFICE.

JOHN C. SEMLER, OF HAGERSTOWN, MARYLAND.

HARNESSTUG.

1,000,760.

Specification of Letters Patent. Patented Aug. 15, 1911.

Application filed January 27, 1910. Serial No. 540,356.

To all whom it may concern:

Be it known that I, JOHN C. SEMLER, a citizen of the United States, residing at Hagerstown, in the county of Washington and State of Maryland, have invented certain new and useful Improvements in Harnesstugs, of which the following is a specification.

This invention relates generally to harnesstugs, and particularly to a novel form of frame or holder for the tug-leather.

The object of the invention is to provide a tug which will maintain its shape indefinitely, which may be readily manufactured and applied to a harness, and in which practically the entire stock of the tug-leather may be utilized, inasmuch as the frame will retain the tug leather in its original form until worthless.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a harness-tug, as will be hereinafter fully described and claimed.

In the accompanying drawings forming a part of this specification, and in which like characters of reference indicate corresponding parts: Figure 1 is a perspective view of a tug constructed in accordance with the present invention. Fig. 2 is a vertical longitudinal sectional view, the tug-billet being omitted. Fig. 3 is a transverse sectional view taken on the line 3—3, Fig. 2, the thill-leather being omitted. Fig. 4 is a top-plan view of the blank of the tug-frame. Fig. 5 is an edge view of the same. Fig. 6 is a vertical longitudinal section through the blank.

Referring to the drawings, 1 designates generally the frame of the device and 2 the thill-leather.

The frame is cast straight, and is bent on a suitable form to the contour shown in Fig. 1, and may be constructed from brass or other metal, as preferred. The frame is provided intermediate its ends with a loop or keeper 3, adjacent to which is an elongated slot 4 to receive the tongue 5 of the buckle, the cross-bar of the latter being seated in a depression 6 formed at the bend or crest of the frame. For the purpose of lightness, the frame is provided with two longitudinal slots 7 and 8, that portion of the latter beneath the loop being laterally enlarged, as shown at 9, in Fig. 4. One end of

the frame is provided with an offset lip 10, and adjacent to the base of the lip with a pair of lugs 11, and the other end of the frame is provided with a similar pair of lugs 12, the two sets of lugs extending at right angles to the plane of the frame. The intermediate portion of the lip is provided with a transverse seat 13 to receive a loop 14 with which connects the usual tug-billet.

The intermediate portion of the frame is provided with two pairs of flanges 15 and 16, that extend at right angles to its plane, and operate, in conjunction with the two sets of lugs 11 and 12, to retain the tug-leather positively assembled with the frame. To secure a rigid connection with the lip and the adjacent end of the frame, a rivet 14' is employed.

As will be noted by reference to Fig. 2, one end 17 of the tug-leather is beveled, the object of this arrangement being to permit removal of the leather through the keeper 3, or to assemble it with the frame. This beveling of the leather is rendered necessary from the fact that the slots 7 and 8 terminate short of the slot 4 at the center of the frame, producing thereby two transverse keepers 19 and 20 arranged on opposite sides of the slot 4, beneath which the ends of the thill-leather are confined, and were one end of the leather not beveled, it would be a somewhat difficult matter to remove and replace it, as the leather will have a tendency to catch against the inner wall of the keeper 19. In addition to lightening the frame, the slots 7 and 8 perform the further function of preventing the thill leather from working laterally within the frame, as in use, owing to the pressure from the thill, the leather will be forced into the slots and thus secure the object sought. To remove the leather, its end 18 is forced toward the buckle as far as possible, and this will permit the beveled end 17 to be projected through the keeper, and thus allow the removal of the latter.

From the foregoing description it will be seen that while the tug of this invention is exceedingly simple in construction, it will in a practical manner secure the object sought, and will eliminate the objectionable features present with the ordinary form of leather tug.

While the form of frame or keeper herein shown will be found to meet all of the requirements of the invention, it is to be understood that changes may be made in the

detailed construction without departing from its spirit or sacrificing any of the advantages thereof.

I claim:

- 5 1. A metallic tug frame provided at its center with a buckle-bar seat and with an opening to receive the buckle tongue, and at one end with an offset lip riveted to the other end of the frame, the opposed ends of
10 the frame being provided with pairs of spaced lugs that form a seat, a tug billet loop loosely held within the seat, lateral flanges carried by the frame, a loop arranged adjacent to the buckle and having an opening
15 beneath it, transverse keepers located on each side of the buckle tongue opening, and a tug leather insertible through the opening into the frame and held in place by the flanges, lugs and keepers.

2. A metallic tug frame provided at its center with a buckle-bar seat and with an opening to receive the buckle tongue, and at one end with an offset lip riveted to the other end of the frame, the opposed ends of the frame being provided with pairs of spaced lugs that form a seat, a tug billet loop loosely held within the seat, lateral flanges carried by the frame, a loop arranged adjacent to the buckle and having an opening beneath it, and transverse keepers located on each side of the buckle tongue opening. 20 25 30

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

JOHN C. SEMLER.

Witnesses:

PALMER BENNANT,
WILLIAM BILSECKER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."