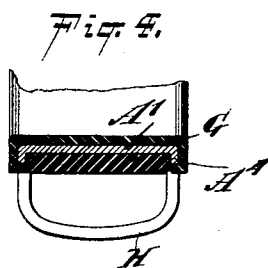
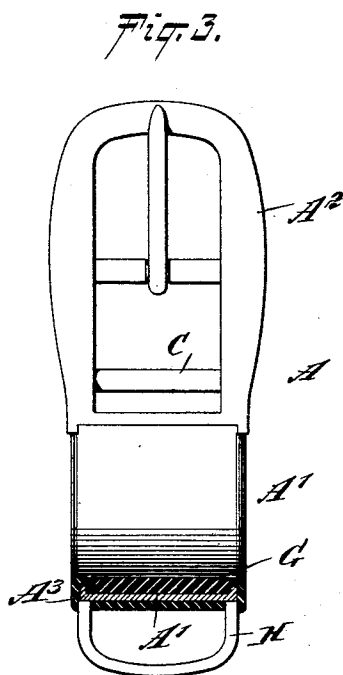
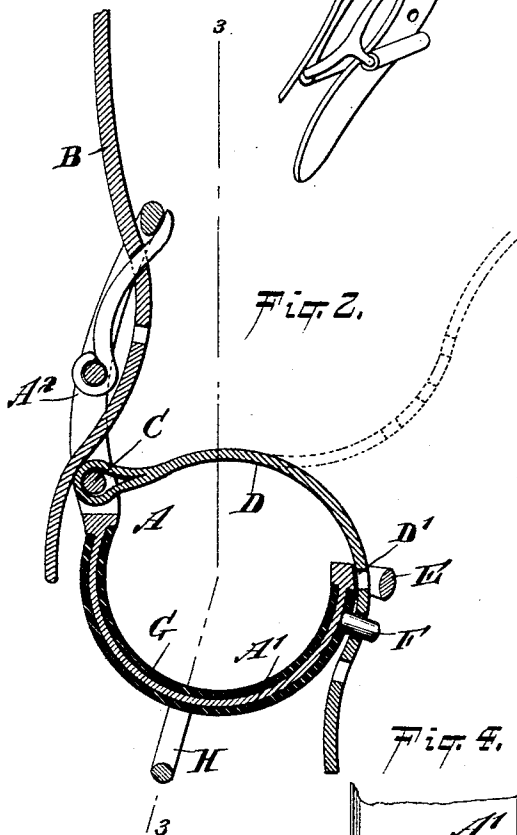
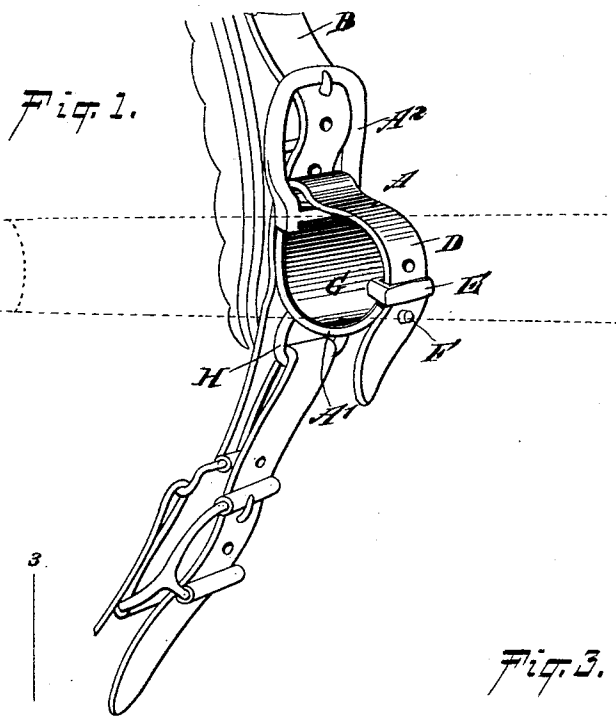


(No Model.)

W. FAWCETT.
HARNESS SHAFT TUG.

No. 586,430.

Patented July 13, 1897.



WITNESSES:

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WILLIAM FAWCETT, OF BROOKLYN, NEW YORK.

HARNESS SHAFT-TUG.

SPECIFICATION forming part of Letters Patent No. 586,430, dated July 13, 1897.

Application filed November 20, 1896. Serial No. 612,838. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM FAWCETT, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Harness Shaft-Tug, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved harness shaft-tug, which is simple and durable in construction, cheap to manufacture, and arranged to permit of conveniently, quickly, and securely fastening the shaft in the tug.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improvement as applied. Fig. 2 is an enlarged cross-section of the improvement. Fig. 3 is a sectional side elevation of the same on the line 3 3 of Fig. 2, and Fig. 4 is a sectional side elevation of a modified form of the shaft-rest.

The improved harness shaft-tug is provided with a metallic frame A, curved at its lower end into an approximately semicircular shape, to form a rest A' for the shaft. The upper end of the said frame is formed into a buckle A², extending integrally from the inner side of the rest A', as is plainly illustrated in the drawings, and the said buckle is adapted to be engaged by the saddle-strap B of the harness.

On the inner side of the frame A is arranged a longitudinally-extending integral pin C, engaged by one end of a strap D, adapted to extend over the open top of the rest A', so as to inclose the shaft in the tug, the free end of the said strap being passed through a loop E, formed integrally on the outside of the outer end of the rest A', as plainly indicated in the drawings. A pin F extends from this outer end of the rest A', directly below the loop E, to be engaged by one of a series of openings D' in the strap D, so as to buckle the free end of the latter to the outer end of the rest after the strap has passed through the loop E.

It will be seen that when the strap D is in

an unbuckled or open position, as shown in dotted lines in Fig. 2, then the tug can be readily engaged with the shaft, after which the strap is brought down over the shaft and passed through the loop E to be connected with the pin F, so as to securely lock the shaft in the tug-rest A'. The rest A' is preferably covered with leather, rubber, or other suitable material G, both on the inside and outside, the said rest being for this purpose provided at its ends with flanges A³ or A⁴ to permit of cementing the covering in the space between the flanges to avoid sewing of the external and internal covering parts. On the under side of the rest A' is formed integrally a downwardly-extending loop H, adapted to be engaged by a belly-band, as indicated in Fig. 1.

It will be seen that by the arrangement described the shaft can be conveniently and quickly connected with the tug and securely fastened in place therein by the strap D, as above described. Furthermore, the tug can be very cheaply constructed, as the frame A in its main portion is made of a single piece of metal, and is quickly attached to the saddle-strap of the harness.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

As a new article of manufacture, the harness shaft-tug having its frame formed of a single piece of metal and curved at the lower portion to form a rest for the shaft, and having formed therewith the loop E, the pin F below said loop and adjacent thereto and the loop H adapted to be engaged by the belly-band, the inner portion of said frame forming a buckle having two longitudinal pins one above the other, the upper one of which carries a movable tongue, and a short strap of leather or similar flexible material in connection with the aforesaid frame, said strap having one end attached to the lower longitudinal pin of the buckle and having its free end arranged to extend over the open top of the frame and through the loop E, being engaged by the pin F, as and for the purpose set forth.

WILLIAM FAWCETT.

Witnesses:

THEO. G. HOSTER,
JNO. M. RITTER.