

W. H. DUVAL.

Improvement in Shaft and Thill-Tugs for Harness.

No. 132,756.

Patented Nov. 5, 1872.

Fig. 1

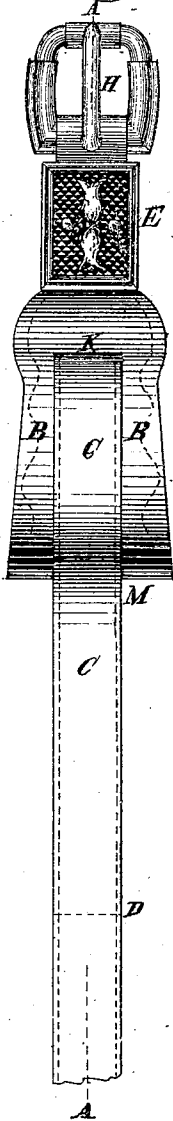


Fig. 2

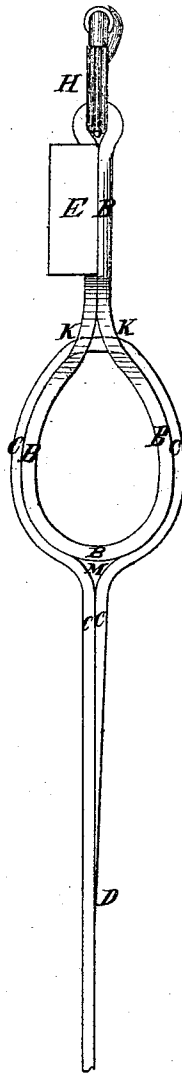
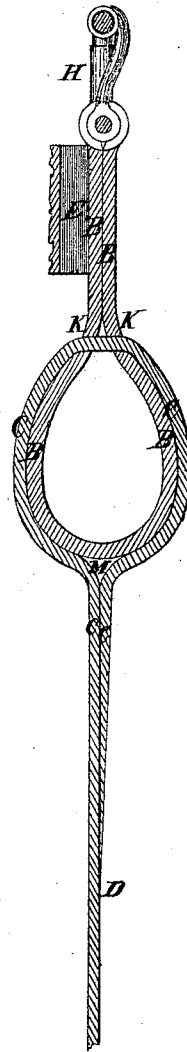


Fig. 3



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WILLIAM H. DUVAL, OF UTICA, NEW YORK.

IMPROVEMENT IN SHAFT AND THILL TUGS FOR HARNESS.

Specification forming part of Letters Patent No. 132,756, dated November 5, 1872.

To all whom it may concern:

Be it known that I, WILLIAM H. DUVAL, of Utica, in the county of Oneida and State of New York, have invented a certain new and useful Improvement in Shaft or Thill Tugs, of which the following is a specification:

My invention relates to the combination, with a shaft or thill tug, of the strap which holds down the thill-tug and thill in position. The objects of my invention are to obtain a thill-tug in which the strap aforesaid is fastened upon the tug in a serviceable, compact, and handsome manner, and in such a way that no pull upon the strap will bind the tug upon the shaft.

Figure I is a front elevation of a thill-tug and strap united together by my improved method. Fig. II is a side elevation of the same. Fig. III is a side elevation of a longitudinal section through the center of same, as indicated by dotted line A A in Fig. I.

B, Fig. I, is an ordinary shaft or thill-tug made in a loop, and provided with the usual buckle H and box E. C is the strap by which the tug B is held down in its proper place at the side of the horse. This strap runs from the thill-tug B down under the horse's belly, where it is secured by being buckled to a sim-

ilar strap coming down in a similar manner from the thill-tug on the opposite side of the horse.

My invention consists in the method of attaching this strap C to thill-tug B, which is as follows, viz: A transverse slot of a size sufficient to admit the entrance of shaft C is cut through both sides of the thill-tug at the point K. One end of the strap C is then passed through these slots at K from the front to the back side of the tug, and is brought down around it so as to inclose it, and firmly attached, by sewing or otherwise, to the side of the long length of strap C below the loop at places D D D D.

What I claim as my invention is—

1. The loop B provided with the slot K in its upper part, substantially as described.
2. The arrangement of the strap C upon a thill or shaft tug by passing such strap through a slot in the upper part of the tug-loop, thereby inclosing the loop so as to hold it firmly in position, substantially as and for the purposes set forth.

W. H. DUVAL.

Witnesses:

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