

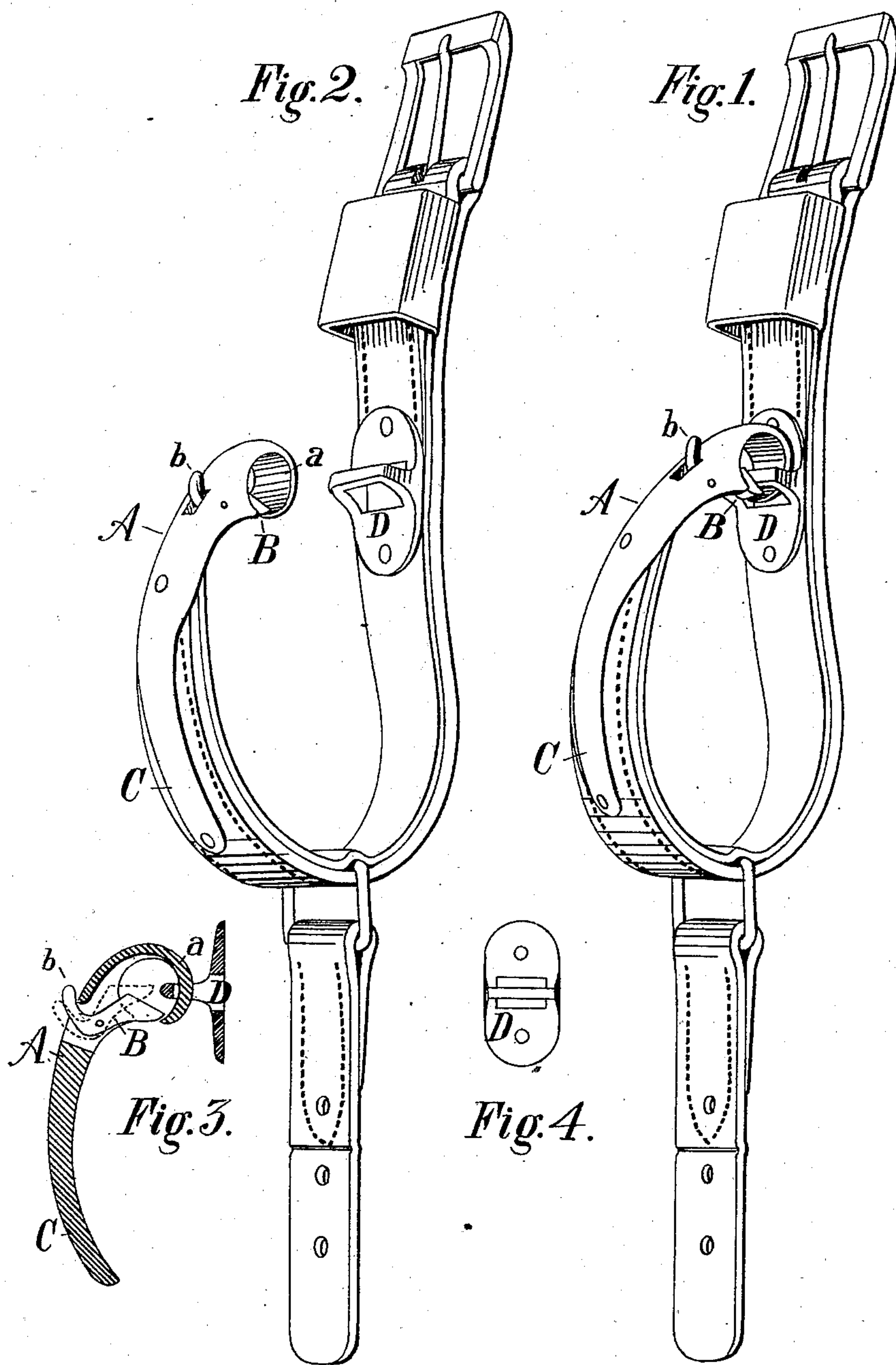
(No Model.)

D. G. POWELL.

THILL OR SHAFT TUG FOR HARNESS.

No. 277,927.

Patented May 22, 1883.



Witnesses.
John B. Halcott.
J. W. Fisher.

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UNITED STATES PATENT OFFICE.

DORWIN G. POWELL, OF AQUETUCK, NEW YORK.

THILL OR SHAFT TUG FOR HARNESS.

SPECIFICATION forming part of Letters Patent No. 277,927, dated May 22, 1883.

Application filed November 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, DORWIN G. POWELL, a citizen of the United States, residing at Aquetuck, in the town of Coeymans, county of Albany, and State of New York, have invented a new and useful Improvement in Thill or Shaft Tugs for Harness, of which the following is a specification.

My invention relates to an improvement in shaft-tugs which open to admit or let out the shafts or thills; and the object of my invention is to avoid the necessity of putting the ends of the shafts or thills through the tugs, with its accompanying inconveniences, by providing a neat, simple, and durable snap, by which the tug may be readily opened to admit or let out the shaft, or closed to retain it. I attain this object by placing upon the tug a snap attachment, as illustrated in the accompanying drawings, in which—

Figure 1 represents the entire shaft-tug with the snap attachment closed in position to hold the shaft. Fig. 2 represents the tug with the snap attachment opened to receive or let out the shaft. Fig. 3 represents a sectional view of the snap, and Fig. 4 represents the staple or attachment into which the snap catches when closed.

Similar letters refer to similar parts throughout the several views.

The snap A has its lower flange or arm, C, extended downward and curved so as to fit the proper curve of the tug, and is secured to the tug by screws or rivets. The tongue B of the snap protrudes through an opening in the back part of the snap, so as to form a projection or thumb-piece, b, on the outside of the tug, by means of which the tongue-piece B of the snap may be readily raised in unsnapping or opening the tug. The tongue-piece B is pressed down against the end or head a of the snap A by means of a spring. The snap A has the head part a somewhat curved in toward the body of the snap, as shown in Figs. 1, 2, and 3, so as to preserve the proper oval shape to the tug, and to more securely hold the tug in its proper place and occupy as small space as possible. The snap may be placed upon any thill

or shaft tug, such tug being opened at the upper side thereof, so that the snap A may be fastened to the loose end, and the staple or attachment D, into which the snap catches, being fastened to the part of the tug secured to the rest of the harness, or to the vertical strap, which forms a part of the harness, as shown in Figs. 1 and 2, which staple D is fastened with rivets or screws. Tugs, being made of leather, readily bend, and so may be opened to any width desirable when provided with a snap attachment.

Snap made as described can be plated to match the other trimmings of the harness, and are neat in appearance, compact in form, easily put upon the shaft-tug, and are also inexpensive, strong, and durable.

Shaft-tugs provided with my snap attachment can be readily opened to admit or let out the shafts or thills or closed to hold them securely in their proper place, and much time and trouble saved in harnessing and unharnessing single horses.

I am aware that prior to my invention shaft-tugs which opened have been used. I therefore do not claim, broadly, any shaft-tug which may be opened; but

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

1. In combination with a leather shaft or thill tug, the snap A, curved to fit the tug, and having an end of its tongue B protruding through the back of the snap, forming the thumb-piece b, by which the tongue of the snap can be raised and the tug opened and closed, and the staple or attachment D for the snap to catch into, all substantially as set forth.

2. A snap, A, curved to fit shaft-tugs, and having the tongue B, protruding through the back of the snap, forming the projection or thumb-piece b, by which the tongue can be raised, substantially as shown, for the purpose specified.

DORWIN G. POWELL.

Witnesses:

FREDERICK W. CAMERON,
W. B. MELINS.