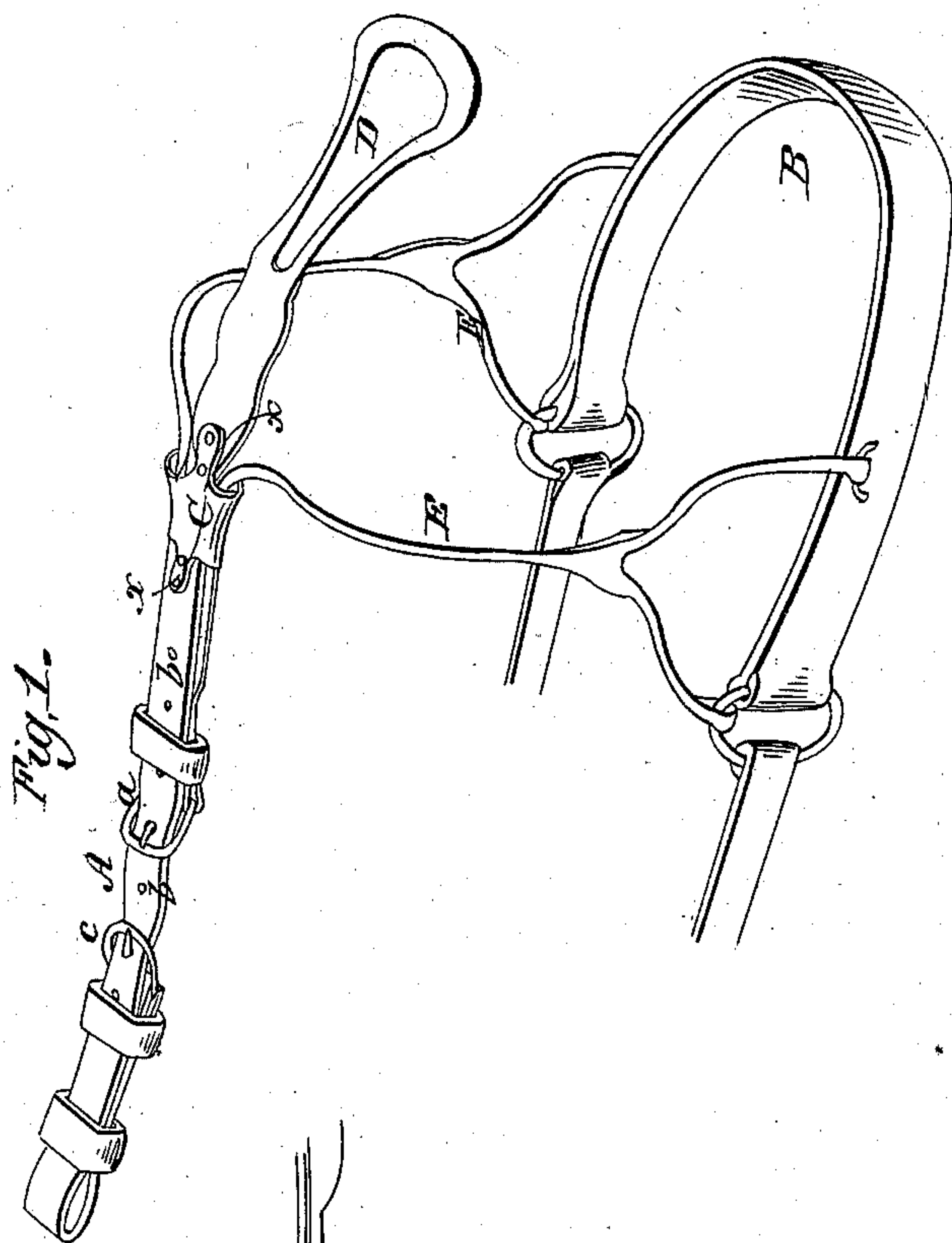


N. T. Healy,
Harness Clasp.

N^o 70434.

Patented Nov. 5, 1867.



Witnesses.

J. A. Davis.
H. H. Taylor.

Inventor.
N. T. Healy.
By J. Fraser & Co.
Attys.

United States Patent Office.

NATHAN T. HEALY, OF MEDINA, NEW YORK.

Letters Patent No. 70,484, dated November 5, 1867.

IMPROVEMENT IN HARNESS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, NATHAN T. HEALY, of Medina, in the county of Orleans, and State of New York, have invented a certain new and useful Improvement in Harness for Horses; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figure 1 is a perspective view of the rear portion of a harness.

Figure 2, an enlarged longitudinal section in plane of line *x x*, fig. 1.

Figure 3, a view showing a different adjustment of the hip-straps.

Like letters of reference indicate corresponding parts in all the figures.

My invention consists in forming the hip-straps, connecting the back-strap with the breeching, without intermediate buckles, and passing the same loosely through a bearing, and using on the back-strap a suitable arrangement for taking up and letting out the hip-straps or lowering the breeching.

As represented in the drawings, A is the back-strap, connecting with the saddle, and B is the breeching, passing around the buttocks of the horse. To the end of the back-strap is attached a bearing, C, and to the opposite end of this bearing is attached a crupper, D, of usual form. With the breeching are connected the hip-straps E E, corresponding with those ordinarily used, except that no intermediate buckles are employed. These straps pass up through the bearing C, and connect with the back-strap either by a buckle, *a*, fig. 1, which adjusts in any of a set of holes, *b b*, or with the buckle *c*, ordinarily used in adjusting the back-strap. By this means the said hip-straps can be taken up or let out at pleasure.

The great advantage of this arrangement consists in the avoiding of buckles in the hip-straps E, which constantly catch the horse's tail, and also the reins. This is a source of damage to the horse, and also a constant annoyance in holding the reins. In my arrangement the straps are perfectly smooth, and therefore can never catch the tail or reins. Besides this, the adjustment of both straps is accomplished by a single movement of said straps forward or back, whereas in ordinary harness each strap has to be adjusted separately by an intermediate buckle.

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

Forming the hip-straps E without intermediate buckles, and passing said straps loosely through the bearing C, and providing a suitable adjustment of the same on the back-strap, as herein set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

NATHAN T. HEALY.

Witnesses:

CHARLES E. CLARK,

JOHN D. HENION.