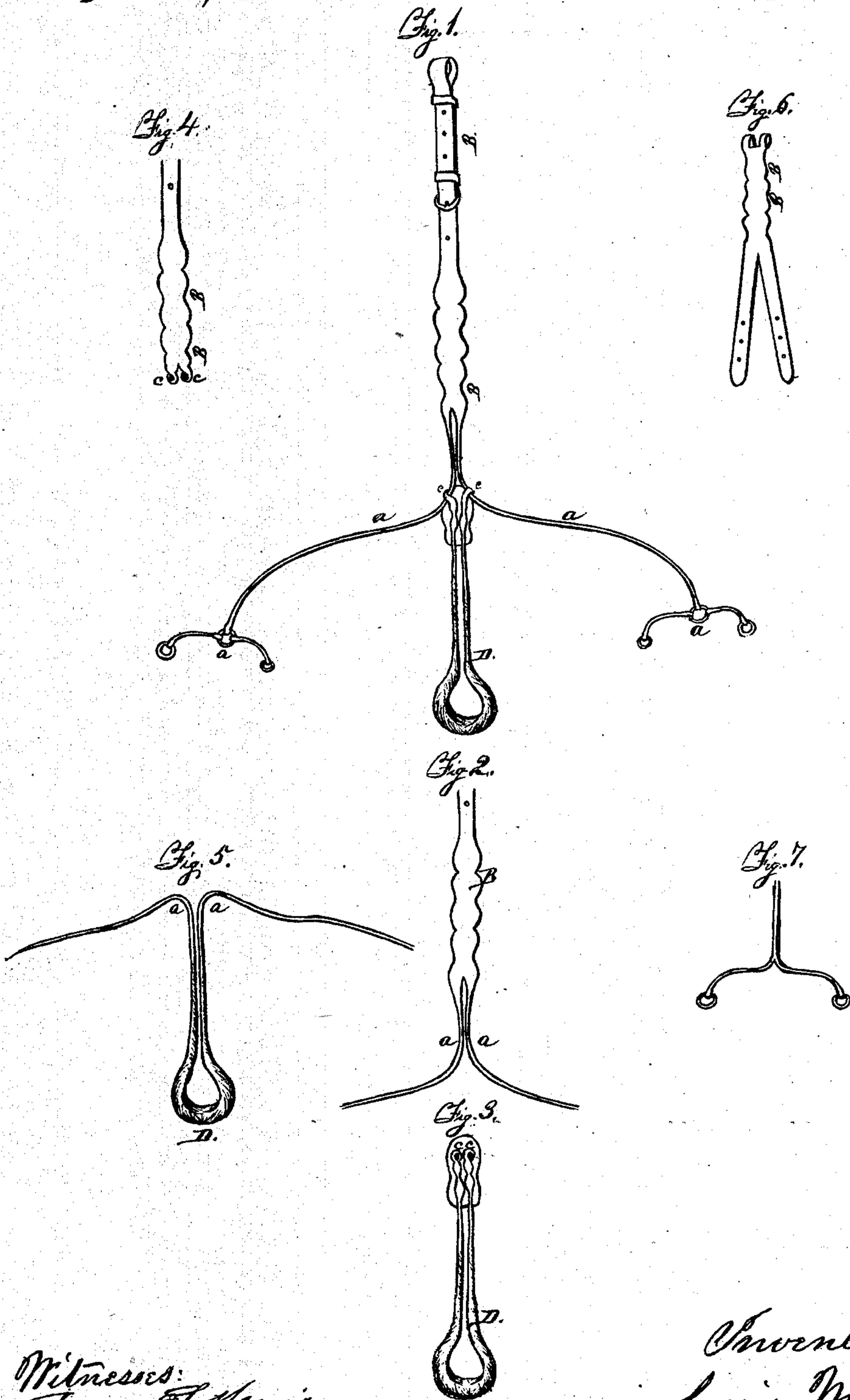


L. Whitehead,

Harness.

No. 103264.

Patented May 17. 1870.



Witnesses:  
J. J. Morris  
F. P. Thomas

Inventor:  
Lewis Whitehead



# United States Patent Office.

LEWIS WHITEHEAD, OF NUNDA, NEW YORK.

*Letters Patent No. 103,264, dated May 17, 1870.*

## 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, LEWIS WHITEHEAD, of the town of Nunda, in the county of Livingston, in the State of New York, have invented a new and improved Mode of Constructing Harness; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in so constructing the back-strap, hip-strap, and crupper of harness that the usual buckles for fastening the hip-straps to the back-strap may be dispensed with.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a plan view of my arrangement, showing the back-strap and hip-straps made of one piece, and the manner of attaching the crupper.

Figures 2 and 3 are detached views of the same.

Figures 4 and 5 show the mode of arranging the same pieces when the crupper and hip-straps are of one piece.

Figures 6 and 7 show other modifications, as will be hereinafter set forth.

B represents the back-strap, of suitable length, and its rear end split for a certain distance, so as to form the hip-straps *a a*.

D represents the crupper, which is made so as to extend up the back of the horse to the point where the hip-straps are to descend, and at this point there are formed two loops or eyes *c c* in the front end of the crupper. Through these eyes *c c* the hip-straps *a a* are passed, which entirely dispenses with the buckles usually employed.

The same object may be accomplished by elongating the upper or front ends of the crupper, and bending the ends downward, one to each side, as shown in fig. 5, forming the hip-straps *a a*. In this case the eyes or loops *c c* are formed on the rear end of the back-strap B, as shown in fig. 4.

By means of the usual buckle attaching the back-strap to the saddle, the hip-straps, whether formed in one piece with the back-strap, or with the crupper, can readily be adjusted to suit the horse.

The ends of the hip-straps *a a* may be formed in various ways, to be attached to the breeching-strap.

In figs. 1 and 7 I have represented two different forms.

If so desired, the hip-straps and the breeching-strap may be made of one piece; or, rather, the back-strap, (or crupper,) hip-straps, and breeching-strap all be made of one piece, and bent in suitable form.

Having thus fully described my invention,

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

1. The hip-straps *a a*, when formed in one piece with the back-strap B, and passing through loops or eyes *c c*, formed on the upper ends of the crupper D, substantially as and for the purposes herein set forth.

2. The hip-straps *a a*, when formed in one piece with the crupper D, and passing through loops or eyes *c c*, formed on the rear end of the back-strap B, substantially as and for the purposes herein set forth.

LEWIS WHITEHEAD.

Witnesses:

S. N. BENNETT,  
G. H. GIDDINGS.