

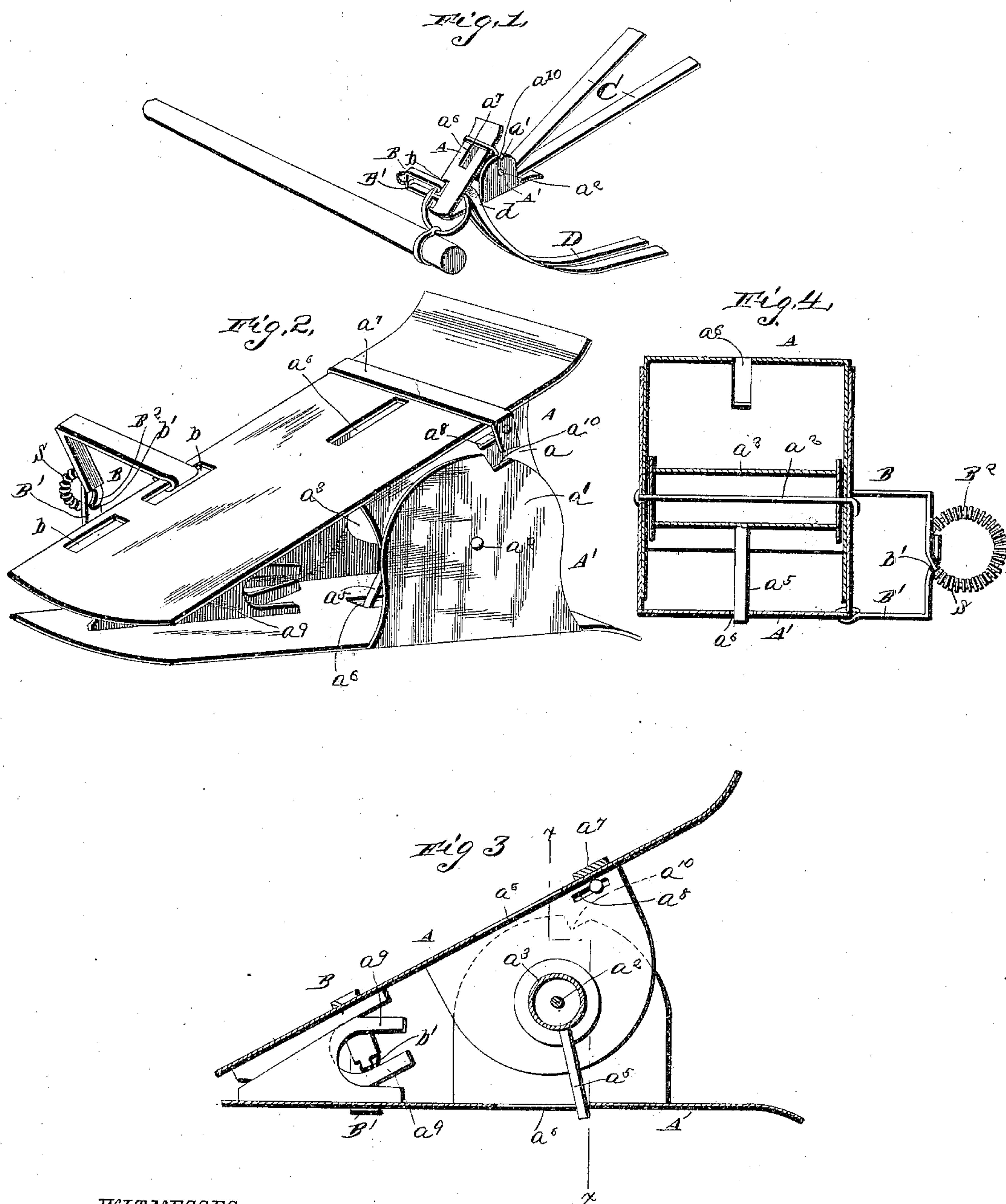
(No Model.)

G. E. BOUGHTON.

ATTACHMENT FOR DOUBLE HARNESS.

No. 371,921.

Patented Oct. 25, 1887.



WITNESSES

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ATTACHMENT FOR DOUBLE HARNESS.

SPECIFICATION forming part of Letters Patent No. 371,921, dated October 25, 1887.

Application filed August 11, 1887. Serial No. 246,695. (No model.)

To all whom it may concern:

Be it known that I, GEORGE EDWIN BOUGHTON, a citizen of the United States, residing at North Riley, in the county of Clinton and State of Michigan, have invented a new and useful Improvement in Attachments for Double Harness, of which the following is a specification.

My invention relates to an attachment for double harness; and it consists in the construction and arrangement of a breast-strap, neck-yoke, and holdback-strap connector combined in a single device, which will be more fully hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, wherein like letters of reference indicate similar parts in the several views, Figure 1 is a perspective view of my improved device shown in connection with the parts of a double harness in connection with which it is adapted to be used. Fig. 2 is a detail perspective view of the improvement. Fig. 3 is a longitudinal section thereof. Fig. 4 is a transverse vertical section on the line *xx* of Fig. 3.

A and A' indicate the top and bottom jaws or inclosing-sections, which are constructed with integral disks or bearing projections *a* and *a'*. The said standards or sections are mounted in connection with each other, the disks *a* and *a'* having bearing one against the other, and a pin or pintle, *a²*, is passed through the same and clutched or headed over on the outer side thereof, thereby forming a pivotal or hinged connection between the said sections and allowing them to be opened from and shut toward each other. Upon the pintle *a²*, and arranged between the disks *a* and *a'*, a cylinder or roller, *a³*, is mounted, the ends of which bear against the inner disks adjacent thereto. The said roller or cylinder *a³* is provided with a tongue, *a⁵*, which allows the said roller to make a half-revolution only, being adapted to engage with slots *a⁶*, formed in the upper and lower sections, A and A'.

Near its upper end the top section or jaw, A, is provided with a band, *a⁷*, passing around on the outside thereof and sliding in slots *a⁸* in the sides or disks *a*, the edges of the disks *a'* being provided with notches *a¹⁰*, which are engaged by the ends of the band *a⁷* to lock the jaws or sections together.

At the lower inner end of each of the sec-

tions A and A' a hook, *a⁹*, is secured in such a position as to pass each other when the sections are in a closed position. These hooks *a⁹* have their open edges toward the rear of the attaching device, and when closed down against each other form a rigid means of securement.

The lower sides of each of the sections are provided with slots or openings *b*, in which the ends of two metallic arms, B and B', are secured. One of these arms, B', has an aperture, *b'*, in its outer end, through which a ring, B², formed on the other jaw, passes. The said ring is encircled by a coiled spring, S, having bearing at its two ends against the two arms B, and acts to force the said arms together when the sections A and A' are opened.

The connector is attached to the breast and holdback straps in the following manner: About midway between the ends of the breast-strap C punch a small hole for the insertion of the roller-tongue *a⁵*. Remove the pintle *a²* and pull the sections or standards A and A' apart. Slip the large loop *d* of the pole-strap D over one of the standards and one of the arms B adjacent to the coiled spring S and the ring B², and by this means the pole-strap is permanently secured. The roller-tongue *a⁵* is then inserted in the hole *c* in the center of the breast-strap C, and the standard-disks are brought together, as before. With the thumb and finger fold the strap in the center until small enough to press down into the space inside the disks, roller-tongue downward. Replace the pintle, and the connector is in permanent position and need never be removed.

To attach the neck-yoke to the connector, the end ring thereof is grasped with one hand and carried to the inclined edges of the two hooks at the base, and with the thumb and finger of the other hand press the upper extremities of the standards slightly together, when the ring can be easily made to force a passage upward until it passes the tops of the two hooks. Then by the action of the coiled spring the hooks are forced together vigorously with a snap and the ring drops down to its place below. To detach the neck-yoke the ring is raised above the top of the hooks and the upper and lower sections opened, as will be readily understood.

The special advantage of my improved de-

vice is the use of a single device to form the basis for the attachment of the different parts of the harness, and, together with its usefulness in this respect, combines simplicity and effectiveness.

The novelty and utility of my improved device being obviously apparent, it is unnecessary to further enlarge upon the same herein.

Having thus described my invention, I claim—

1. The combination of the two jaws having the disks a and a' and provided with the slots a^b , the pintle connecting said jaws, the cylinder or roller mounted on said pintle and bearing against the inner disks, and the arm secured to said cylinder or roller, adapted to engage with the slots a^b , substantially as described.

2. The combination of the two jaws A and A' a^b , provided with the hooks secured to the inner opposing sides of the ends thereof, substantially as described.

3. The combination, with the jaws having openings b therein, of the arms B , the ring B^2 , and the coiled spring S , substantially as described.

4. The combination of the jaws having the disks arranged as set forth, the pintle passing therethrough, the cylinder surrounding the pintle having an arm, the two hooks arranged in the lower ends of the jaws, and the two arms B , substantially as described.

5. The combination, with the jaws or sections, of the band secured to and passing over the one jaw, and the disks formed on the other jaw and provided with notches to engage the ends of the band, substantially as described.

6. As an improved article of manufacture, the herein-described double-harness attachment, comprising the two jaws having hooks formed therewith on the inner opposing sides, the pintle carrying the arm, and the spring-actuated ring B^2 , substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

GEORGE EDWIN BOUGHTON.

Witnesses:

HENRY M. PERRIN,
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