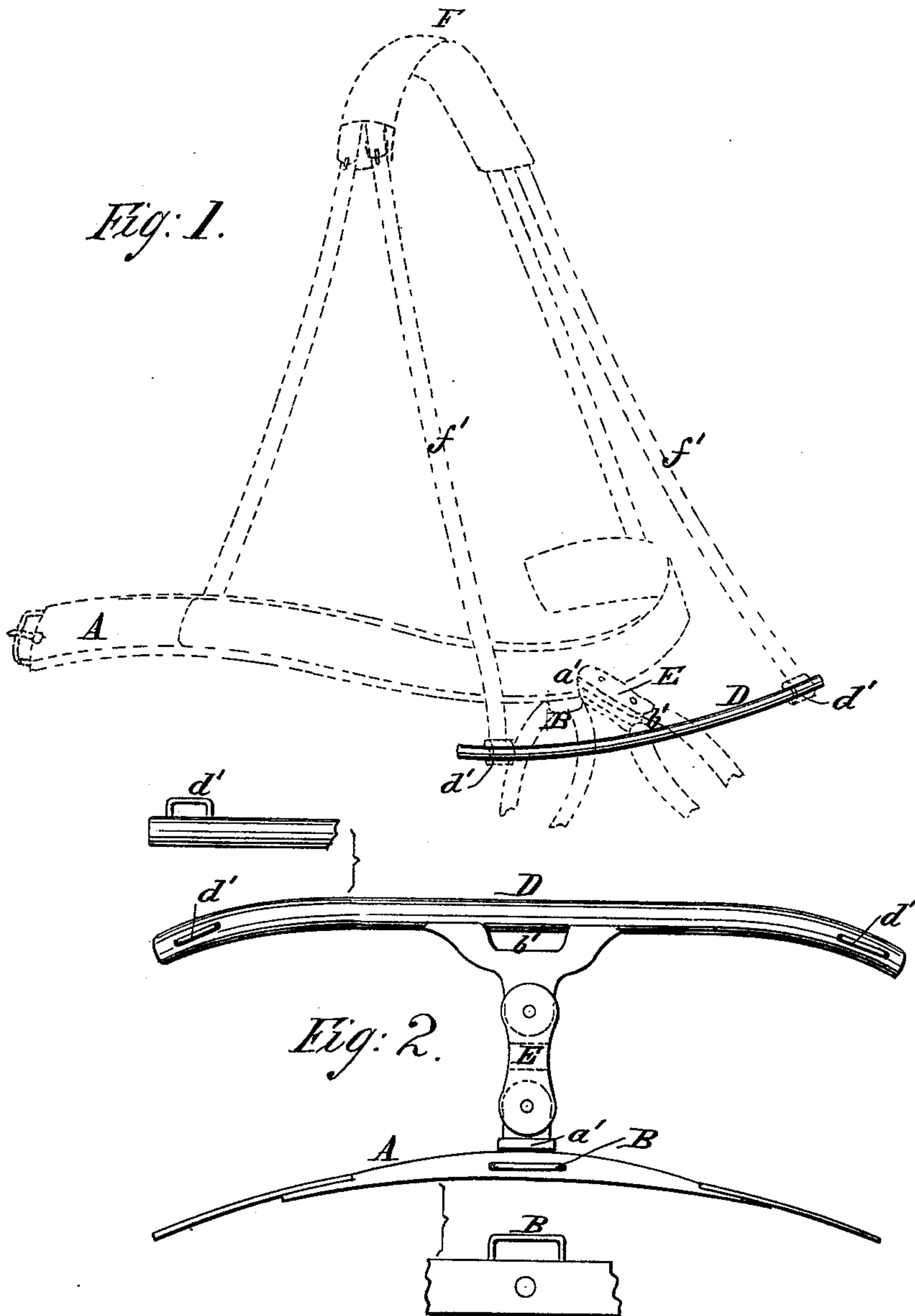


R. E. MILES.
Breast-Collar.

No. 214,170.

Patented April 8, 1879.



WITNESSES:
Achilles Schehl.
C. Sedgwick

INVENTOR:
R. E. Miles
BY *Munn & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

RICHARD E. MILES, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN BREAST-COLLARS.

Specification forming part of Letters Patent No. **214,170**, dated April 8, 1879; application filed January 13, 1879.

To all whom it may concern:

Be it known that I, RICHARD E. MILES, of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and Improved Breast-Collar, of which the following is a specification.

Figure 1 is a perspective view of collar and attachments. Fig. 2 shows collar and attachments in detail.

Similar letters of reference indicate corresponding parts.

This invention has for its object the construction of a breast-collar and attachments adapted to the use of double harness.

The body of the collar A is made of heavy single leather, channeled to receive the stitching of the sweat-piece, which, being closed over the stitching, makes a smooth surface next to the horse, and from which sweat and dirt can be easily removed. The iron plate *a'*, which supports the link E and arm D, is inserted between the sweat-piece and body of the collar before stitching.

D is an iron arm, with slot *b'* at center for the attachment of the yoke-strap. The loops *d' d'* near each end of the arm are to secure straps *f' f'*, running to the top of the neck.

The link E, connecting the arm with the iron inserted in the collar, insures a free horizontal motion of the arm which holds the yoke-strap, and is intended to prevent any friction or movement of the collar on the horse caused by motion of the pole.

The straps from arm and collar buckle into a broad strap, F, over the horse's neck, which has a broad and long loop to receive the points of the straps after buckling to suit neck of horse. The under side of this broad strap is also channeled, and the stitches made by stitching on buckles and loop are closed over, as in the collar-body.

If the collar or broad neck-strap should chafe the horse, I line them with rubber to prevent chafing, by securing the rubber to them with cement or by stitching it on them.

Every one at all understanding the ordinary uncomfortable and inconvenient arrangement of horse-collars used in double harness will at once recognize the value of this improvement, as it is susceptible of being adjusted to any sized neck, gives freedom to the motion of the horses, and materially adds to their appearance.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with a breast-band, of the arm D, having end loops, *d' d'*, to receive straps *f' f'*, and connected with the breast-band by a plate having slot *b'*, a pivoted link, E, and the plate *a'*, constructed and operating substantially as shown and described.

RICHARD E. MILES.

Witnesses:

J. E. CALDWELL,
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