

(No Model.)

J. HAWES.

NECK YOKE.

No. 391,846.

Patented Oct. 30, 1888.

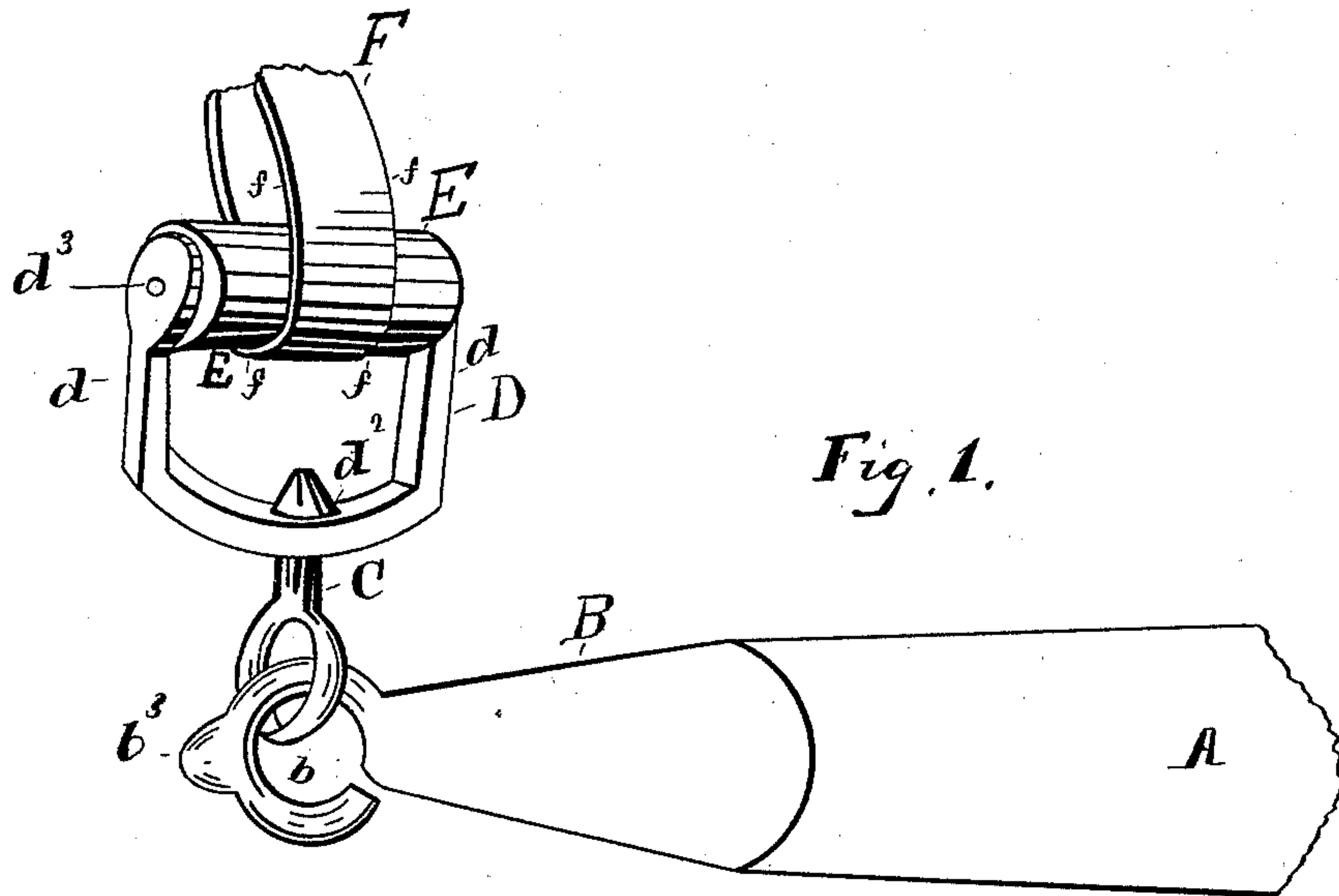


Fig. 1.

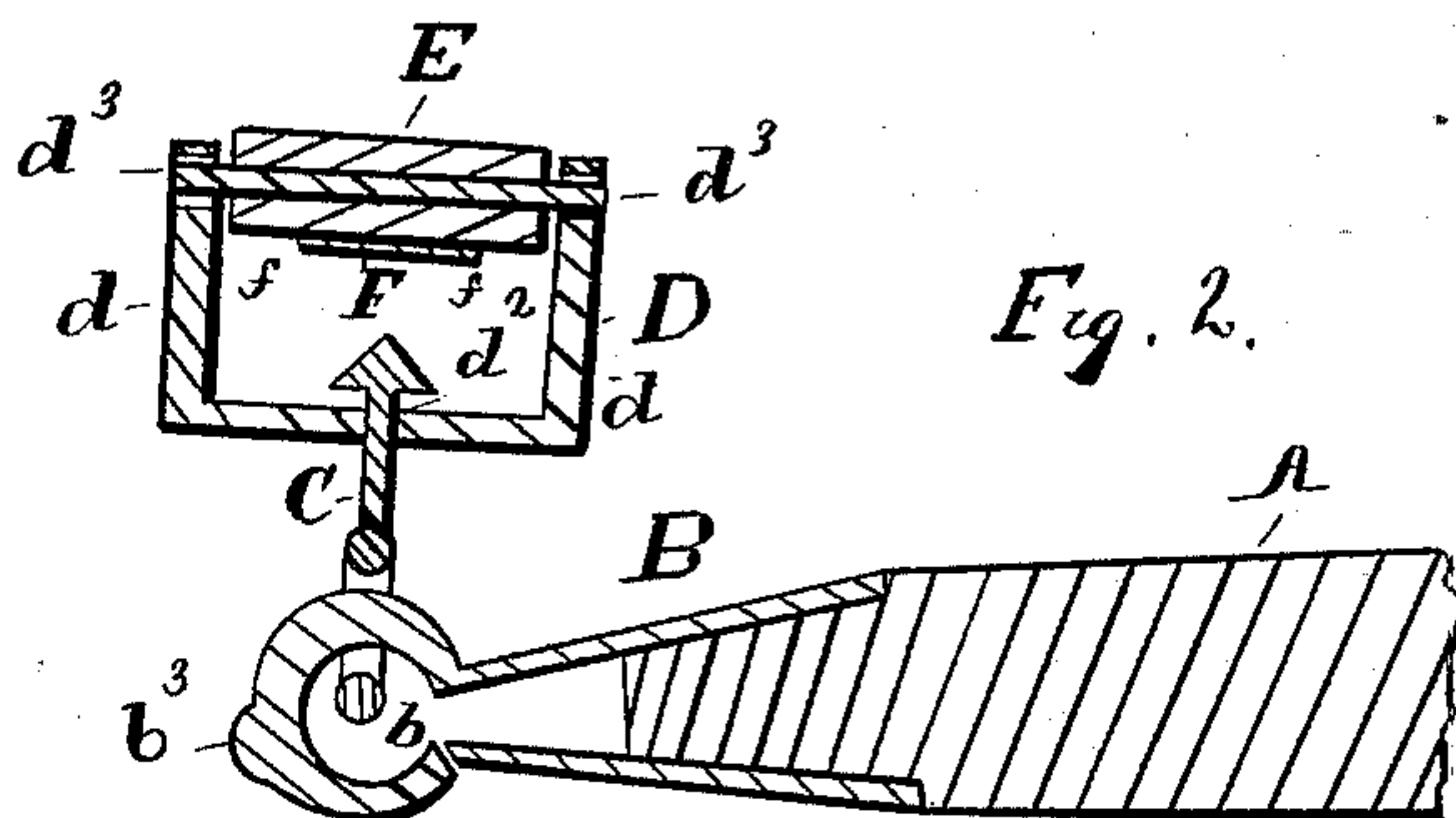


Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE.

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NECK-YOKE.

SPECIFICATION forming part of Letters Patent No. 391,846, dated October 30, 1888.

Application filed September 15, 1887. Serial No. 249,760. (No model.)

To all whom it may concern:

Be it known that I, JOHN HAWES, a citizen of the United States, residing at Urbana, in the county of Dallas and State of Missouri, have
5 invented certain new and useful Improvements in Neck-Yokes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to
10 make and use the same.

My invention relates to improvements in neck-yokes; the object of which is to provide a cheap and simple device to prevent twisting, wrinkling, and wearing the breast-strap of a
15 harness. These objects I attain by means of the device illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a view in elevation of the entire
20 device. Fig. 2 is a sectional view of the device.

Similar letters of reference indicate corresponding parts in both figures.

A is an ordinary neck-yoke cross bar.

25 B is a ferrule having an eye, *b*, to receive the eye *c* of the swivel-pin C.

D is an open link having a hole, *d*², to receive the swivel-pin C and bolt *d*³, connecting the sides *d* *d* of the link.

30 E is a roller placed on the bolt *d*³, which is made long enough to let the breast-strap F work easily back and forth without rubbing the edges *f* *f* of the strap. The swivel-joint formed by the bolt C and link D, together
35 with the motion permitted by the two eyes *b* *c*, prevents all injury to the edges *f* *f* of the breast-strap, while the roller E prevents friction on the surface of the said strap. Thus, by means of this swivel-joint, the eyes, and roller,
40 a breast-strap may be used for a long time

without showing any wear on the sides or edges and always give the full strength of the strap, as the swivel prevents twisting and tearing it.

Eye *b* is preferably formed, as shown at *b*³,
45 by bending the same so that the eye *c* of the swivel-pin will always remain on the upper side of the neck-yoke. By this means it avoids all catching which would prevent the free motion of the swivel-joint and the eyes in each
50 other. It also prevents pulling the eye *b* open and twisting the ferrule B, which would be the case were it not for the projection *b*³. Thus I have a device that protects the strap F and
55 ferrule A.

I am aware that it is not new to provide a
neck-yoke with the ferrule having an attaching-loop formed thereon, and that it is old in devices of a similar character to provide a ferrule
60 or clip with a swivel-pin having a hook at one end for the attachment of a link, and therefore do not claim such devices broadly; but,

Having thus described my invention, what I claim as new, and desire to secure by Letters
65 Patent of the United States, is—

The combination, in a neck-yoke, of the cross-bar A, the ferrule B, having a hook formed with the enlargement *b*³, as shown, the swivel-pin C, having an eye at one end and a head at
70 its opposite end, and the open link D, swiveled to the said pin C, and the roller E, secured to the branches of the open link by the bolt passing through the same and also through the said arms, substantially as specified.

In testimony whereof I affix my signature in
75 presence of two witnesses.

JOHN HAWES.

Witnesses:

J. L. HENDRICKSON,
J. A. BONNER.