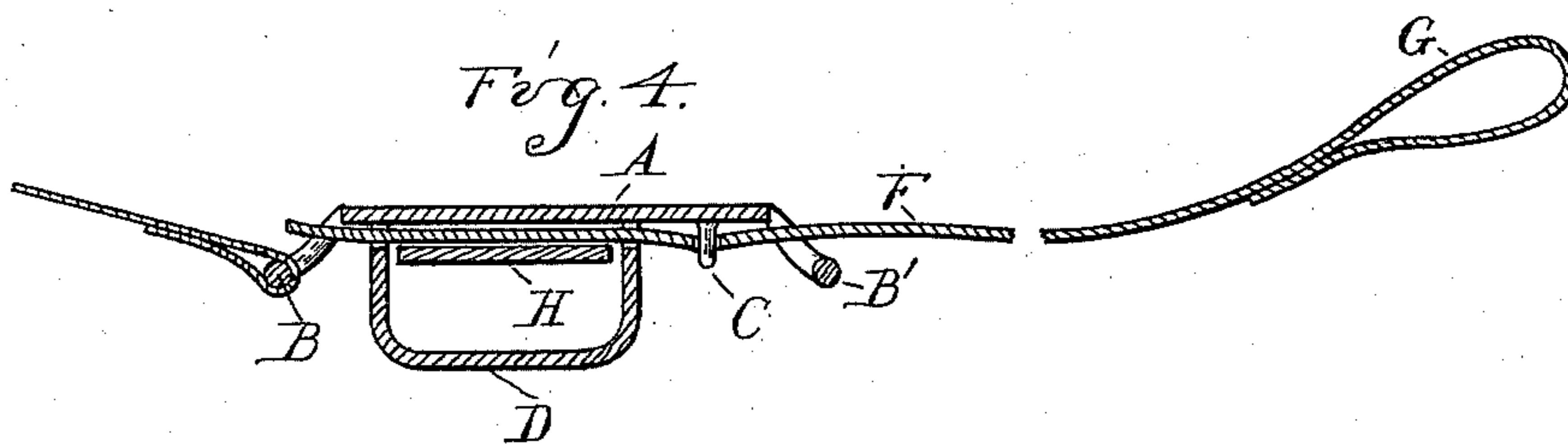
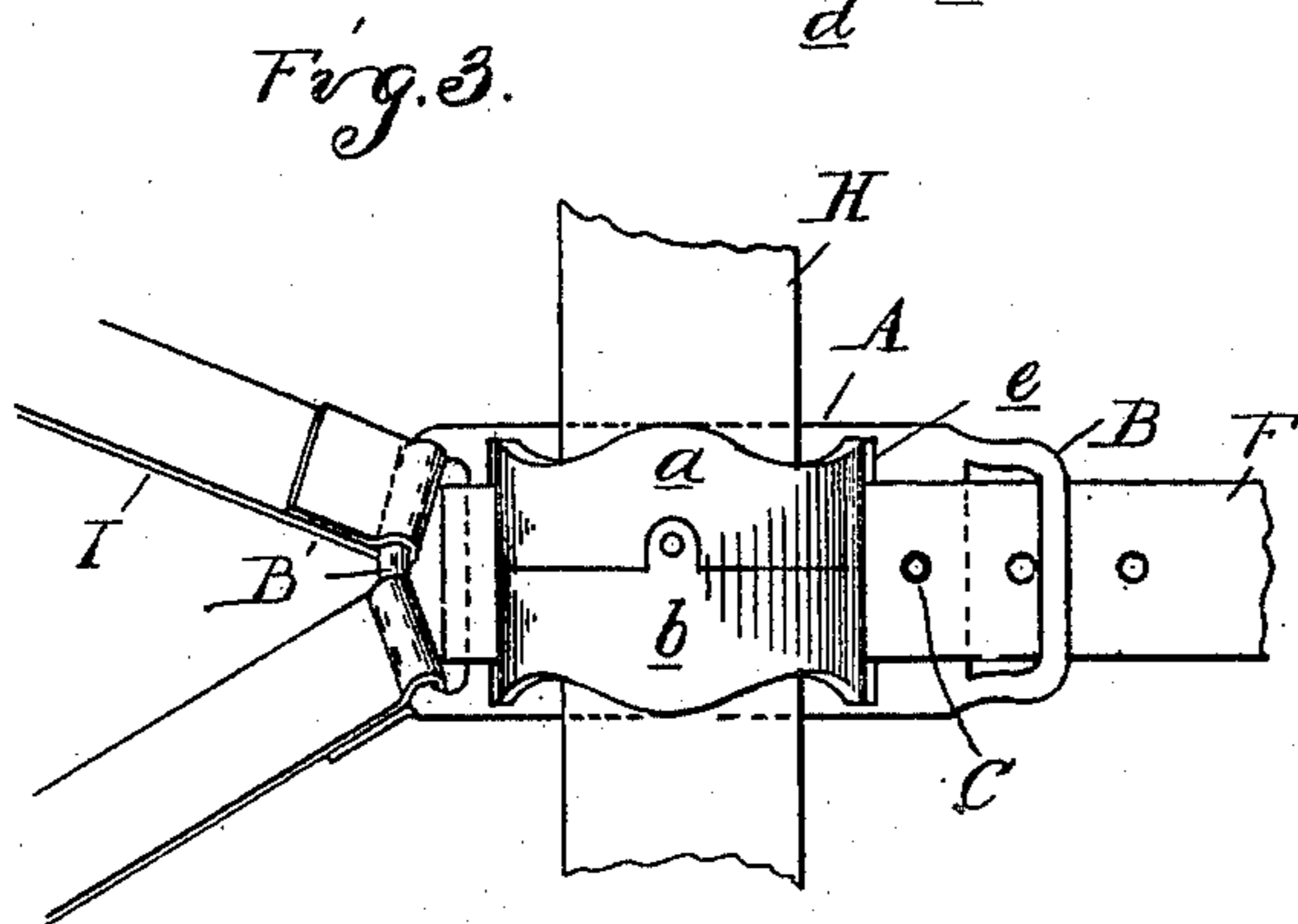
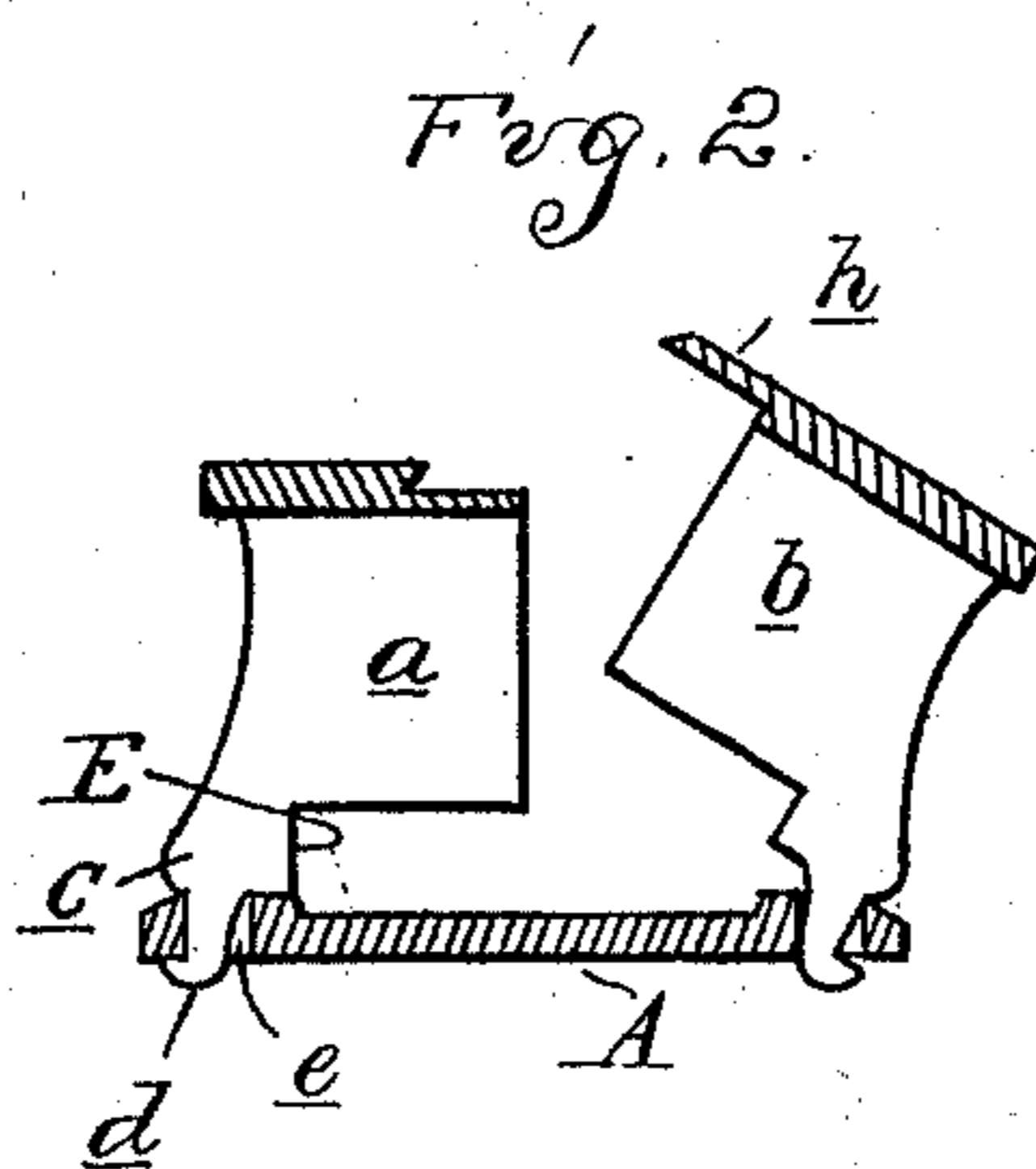
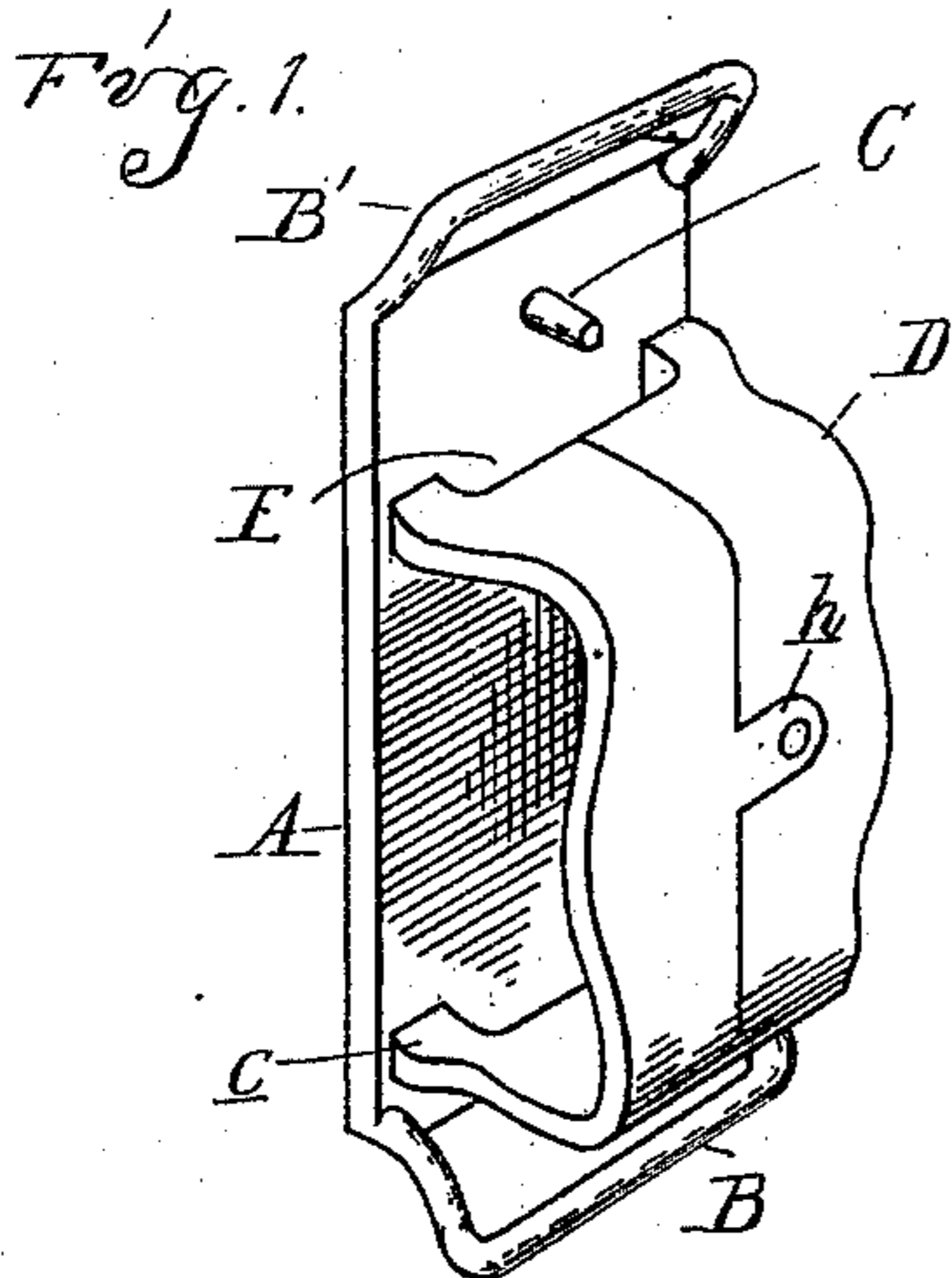


(No Model.)

H. C. DETZER.
HARNESS.

No. 567,850.

Patented Sept. 15, 1896.



Witnesses
A. L. Kobby
O. H. Bantel

Inventor
Henry C. Detzer
By W. E. Maguire & Co.
Attys.

UNITED STATES PATENT OFFICE.

HENRY C. DETZER, OF FRASER, MICHIGAN, ASSIGNOR OF ONE-HALF TO
JULIUS F. HOFFMEYER, OF ROSEVILLE, MICHIGAN.

HARNESS.

SPECIFICATION forming part of Letters Patent No. 567,850, dated September 15, 1896.

Application filed April 16, 1896. Serial No. 587,756. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. DETZER, a citizen of the United States, residing at Fraser, in the county of Macomb and State of Michigan, have invented certain new and useful Improvements in Harness, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the construction of a harness, and particularly in a connecting-plate between the girth and the martingale and which may be used likewise to attach the holdback or side straps, and, further, in the construction, arrangement, and combination of the various parts, all as more fully hereinafter described.

In the drawings, Figure 1 is a detached perspective view of the plate with its guide loops and eyes complete. Fig. 2 is a vertical section therethrough illustrating the manner of assembling the parts. Fig. 3 is a bottom plan view showing it as in use, and Fig. 4 is a central longitudinal section of Fig. 3.

At the present time in double harnesses the pole-strap or martingale is ordinarily formed by a strap which has a loop at the lower end, through which the girth passes, and an adjustable loop at the upper end, with a buckle and the fittings that go therewith, so as to adjust the size of the loop and the length of the strap. This requires considerable leather besides considerable work, and in harnesses of this type this strap is not an unimportant part of the expense.

With my construction I greatly reduce the expense of labor and material in this strap, besides preventing the wear on that end of the strap which has a loop for the girth, making a better-looking and a better mechanical connection at that point, and, in addition, provide a convenient and ready means for the attachment of the pull-back or side straps. To this end I construct my device as follows:

A is a plate having formed integral therewith at each end the raised eyes or loops B B'. Adjacent to one of these eyes is the tongue or pin C. Intermediate the eyes and springing from the plate is the arch D. This arch, for convenience in manufacture, I preferably make, as shown, in two parts *a b*, each forming a longitudinal half of the device and

each provided at the outer corner with the lugs *c* and with the hooks *d*, adapted to be secured in apertures *e* in the corners of the plate A, when the two complementary halves are thus secured in position for forming the complete arch D, as plainly shown in Figs. 1 and 2, and may be held together and against movement in any suitable manner. I have shown this accomplished by means of a lug *h*, formed integral with the section *b* and riveted in a gain or recess of the adjoining plate so as to make a flush upper face. Between the lugs *c* at each end of the arch is a guide-way E in line with the eyes B B'.

The parts being thus constructed, they are adapted to be used as follows: The martingale I form of a single strap F, having a sewed loop G at its outer end to engage with the pole in the usual manner. At the other end no loop is formed, but the end of the strap is passed through the eye B' and the guides E in the arch until the desired length of strap is obtained, and then one of the apertures in that end of the strap is engaged with the tongue or pin C, which thus forms with the plate and the guides a buckle connection. The girth H is passed through the arch, as shown in Figs. 3 and 4, and the device secured in position in the usual manner. The eye or loop B at the rear end may be used, if desired, for connecting the holdback or side straps I, as shown in the drawings.

What I claim as my invention is—

1. In a harness the combination with the girth, of the plate, an arch through which the girth is adapted to pass, eyes or loops on the plate, and a pin beside one of the end loops and without the arch, substantially as described.

2. In a harness, the combination with a girth, of a plate, an arch through which the girth is adapted to pass provided with apertures, eyes or loops raised above the plane of the plate in line with said apertures, a pin opposite one of the end loops, the martingale passing through the forward eye and engaging with the pin and the back-straps connected to the rear eye, substantially as described.

3. In a harness a metallic connection of the kind described comprising the plate A, raised eyes or loops B, B' at the ends thereof, the pin

C opposite one loop, the arched frame D having apertures E at each end and formed of the sections *a b* connected together and to the plate for the purpose described.

- 5 4. A metallic connection of the kind described comprising the plate A, the recessed eyes or loops B B' at the ends thereof, the pin C, the arch having at its outer corners thereof the hooks *d* adapted to engage in apertures
10 in corners of the plates and the overlapping connecting-plates *h*, the parts being arranged, substantially as and for the purpose described.

5. A metallic connection for harness comprising a base-plate, eyes or loops at two ends 15 thereof, a pin on the base-plate adjacent one of said loops, and an arch through which a strap is adapted to pass on the base-plate having apertures in its legs in line with said loops, substantially as described. 20

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

HENRY C. DETZER.

Witnesses:

M. B. O'DOHERTY,
OTTO F. BARTHEL.