

J. C. BRIGHTMAN & J. B. BURRELL.  
Box-Loop for Harness.

No. 216,256.

Patented June 10, 1879.

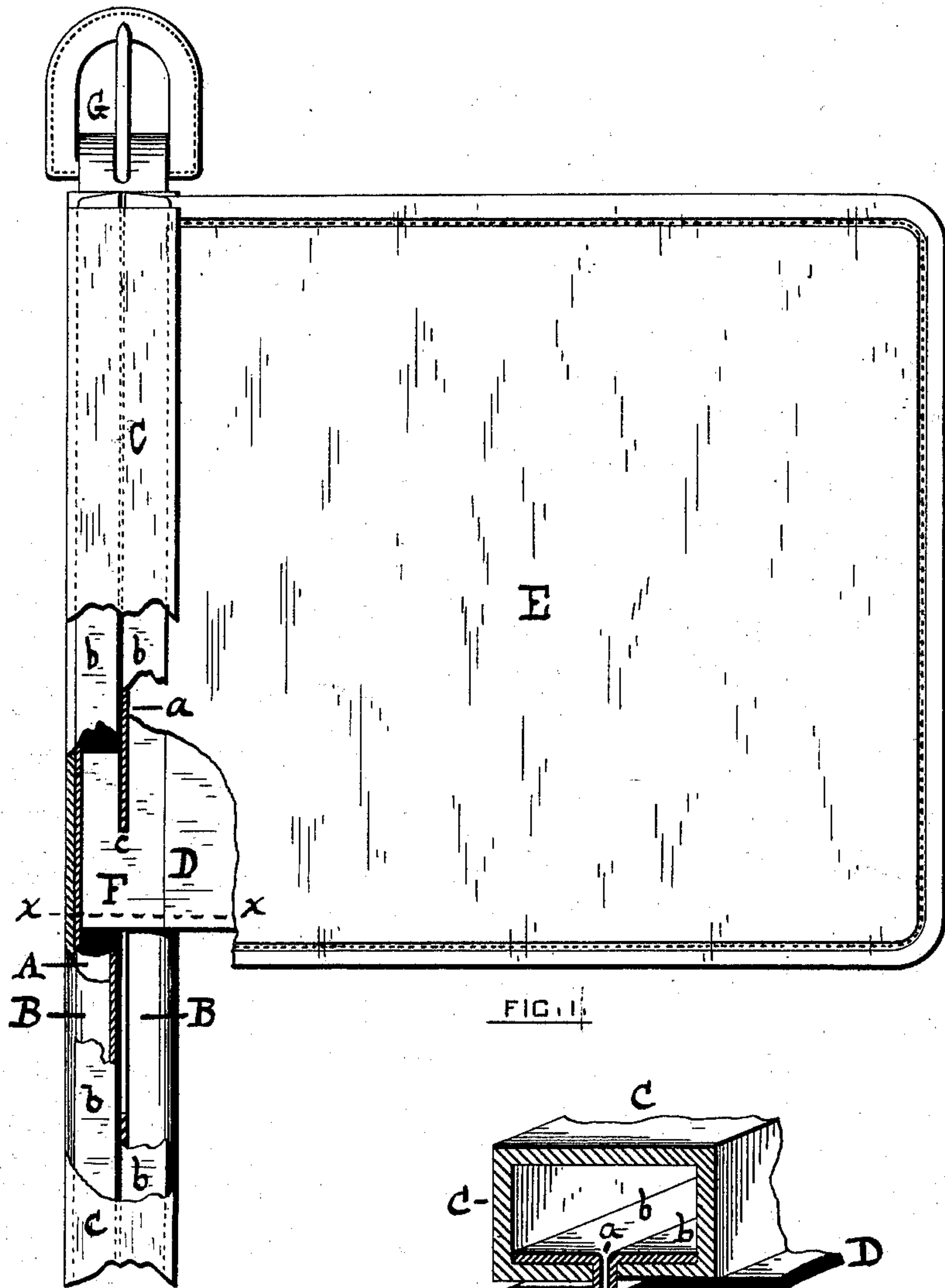


FIG. 1.



FIG. 2.

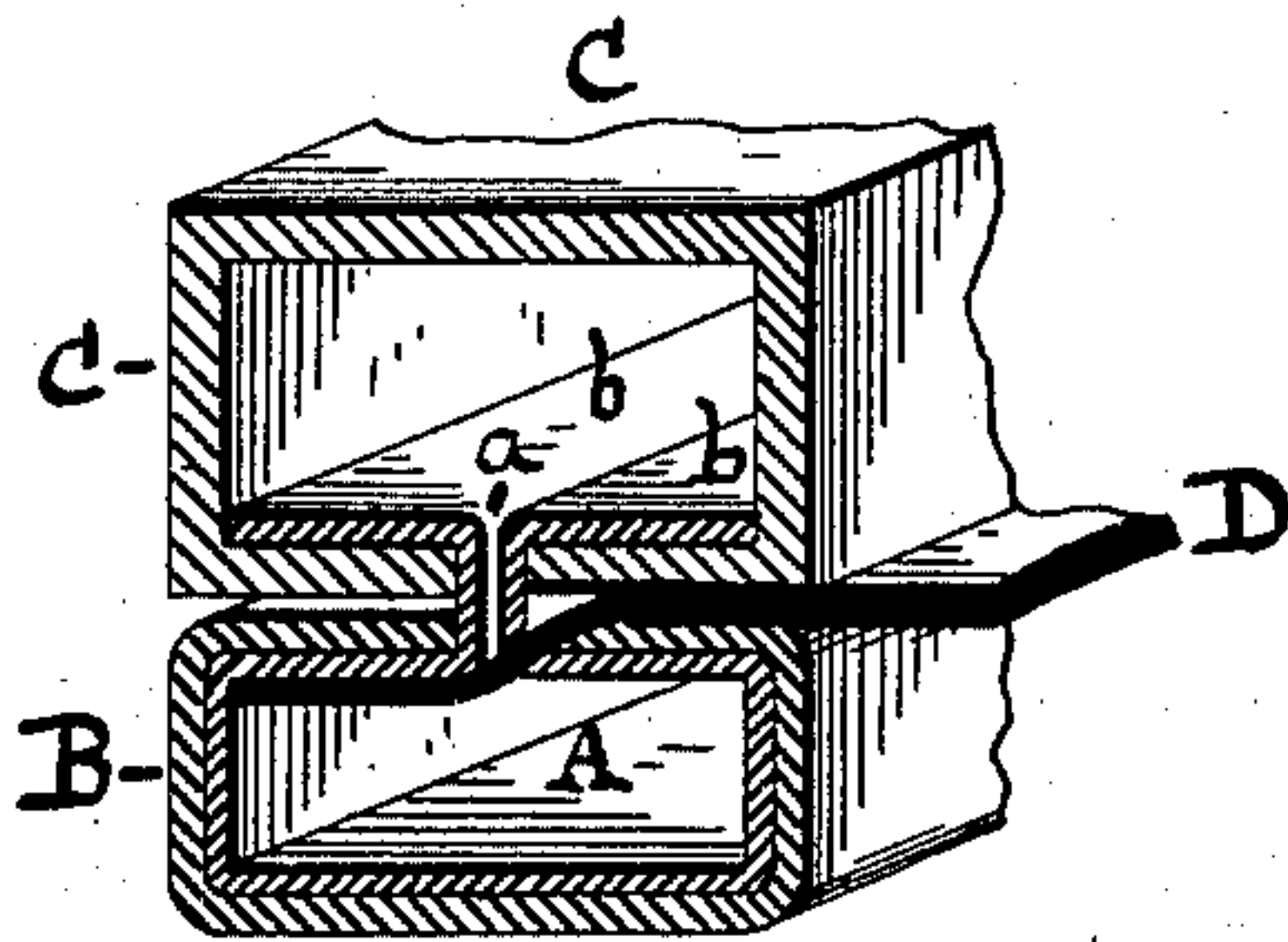


FIG. 3.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN C. BRIGHTMAN AND JOHN B. BURRELL, OF FALL RIVER, MASS.

## IMPROVEMENT IN BOX-LOOPS FOR HARNESS.

Specification forming part of Letters Patent No. **216,256**, dated June 10, 1879; application filed April 30, 1879.

*To all whom it may concern:*

Be it known that we, JOHN C. BRIGHTMAN and JOHN B. BURRELL, of Fall River, in the county of Bristol, in the State of Massachusetts, have invented a new and useful Improvement in Harness; and declare the following to be a specification thereof, reference being had to the accompanying drawings.

In the drawings like letters indicate like parts.

Figure 1 is a plan of our invention. Fig. 2 is a detail view. Fig. 3 is an enlarged transverse section on the line *x x*.

Our invention appertains to the box-loops for harness and the blinders of bridles; and consists of a metallic frame or mold furnished with lips or flanges, whereby the box-loop is secured in position without stitching, and within which frame the blinder-iron may be locked by suitably-slotted ears engaging therein.

The frame or mold A is made of copper or other suitable sheet metal bent into the box-like shape shown in Fig. 3. The sheet metal is folded into contact along the central longitudinal line of the frame A upon one side, forming a shank, *a*, and then separates outwardly to form the flanges *b b*. This frame gives strength and stiffness to the structure.

The box-like part of the frame A is covered with leather B, folded over it, and is secured by the compression of the flanges. This box-like part of the frame A serves to contain and hold firmly the cheek-strap G.

The box-loop C is made in the usual manner, with its inner edges brought near together, leaving a narrow opening between them, into which opening the shank *a* of the frame A is inserted, and the box-loop is then slid upon the frame and held and secured by the shank and flanges which it incloses.

The blinder-iron D is covered with leather E, as usual. Its inner rim, bent at a proper angle, has two or more ears, F F, each having a narrow slot, *c*, upon the upper side. (See Fig. 2.) Slots or openings corresponding to the ears F F are made through the frame A at or near the line in which the metal is bent up to form the shank, as shown in Fig. 3. The ears F F are inserted in these latter slots, and then, by pressing the blinder-iron D upward, the slots *c c* of the ears F F engage with the edge

of the frame cut as aforesaid. The portion of the opening so cut in the frame and left unoccupied, when the blinder-iron has been pushed up into place, is filled by a key-shaped wedge of leather, which prevents the blinder-iron from becoming displaced, and also fills the open space between the box-loop and leather cover B, which is below the blinder. This contrivance of the slotted ears of the blinder-iron, engaging as described, obviates the necessity of stitching the blinder to the cheek-strap, and makes a more firm, strong, and durable connection of the parts than can be obtained by sewing.

After all the parts have been properly placed in position, we insert a bar within the box-loop to prevent its being crushed, and then, by means of a suitable press, we compress the box-loop and frame, thereby bending down the flanges to clamp and fasten together the whole.

By use of our invention we put together and secure in position these box-loops and blinders without sewing, and thereby save much labor and expense.

In sewing box-loops upon a harness much skill and care are required, because they must be sewed wholly upon their interior surface, which is accessible only with great difficulty; but, by means of the flanges *b b*, we avoid all this stitching, and when the box-loop is slid on into position it is an instantaneous act and the parts are firmly held together.

As box-loops are needed upon many parts of a harness, as, for example, the bridle, hame-tugs, breast-plate and breeching, this saving of labor and the more ready and reliable method of fastening make our invention of great utility and practical value.

We claim as a useful and novel invention and desire to secure by Letters Patent—

1. The frame A, with its shank *a* and flanges *b b*, in combination with the box-loop C and strap G, substantially as described.
2. The blinder D, having slotted ears F F, in combination with the perforated frame A, substantially as specified.

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