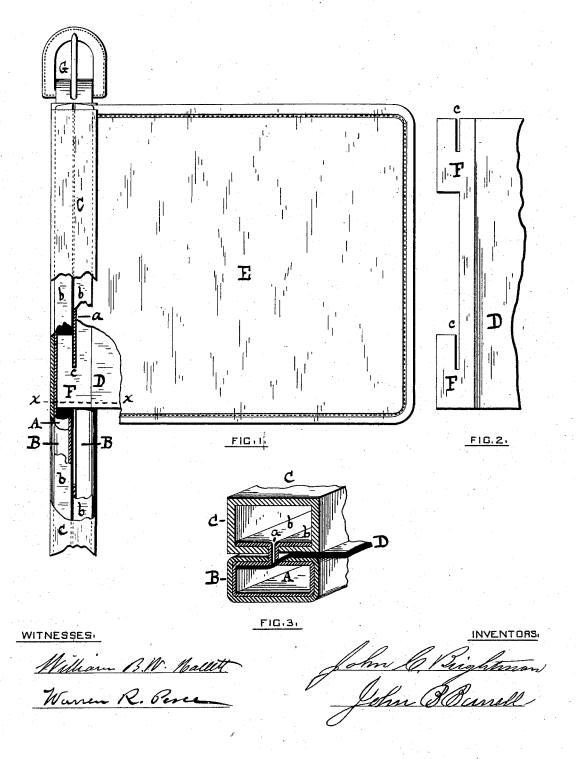
## J. C. BRIGHTMAN & J. B. BURRELL. Box-Loop for Harness.

No. 216,256.

Patented June 10, 1879.



## 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 trans-

verse 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 blinderiron, engaging as described, obviates the necessity of stitching the blinder to the cheekstrap, 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 boxloop 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, hametugs, 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.

JOHN C. BRIGHTMAN. JOHN B. BURRELL.

Witnesses:

WM. B. W. HALLETT, WARREN R. PERCE.