

E. E. Hardy,

Harness Saddle,

N^o 44,185.

Patented Sep. 13, 1864.

Fig. 1.

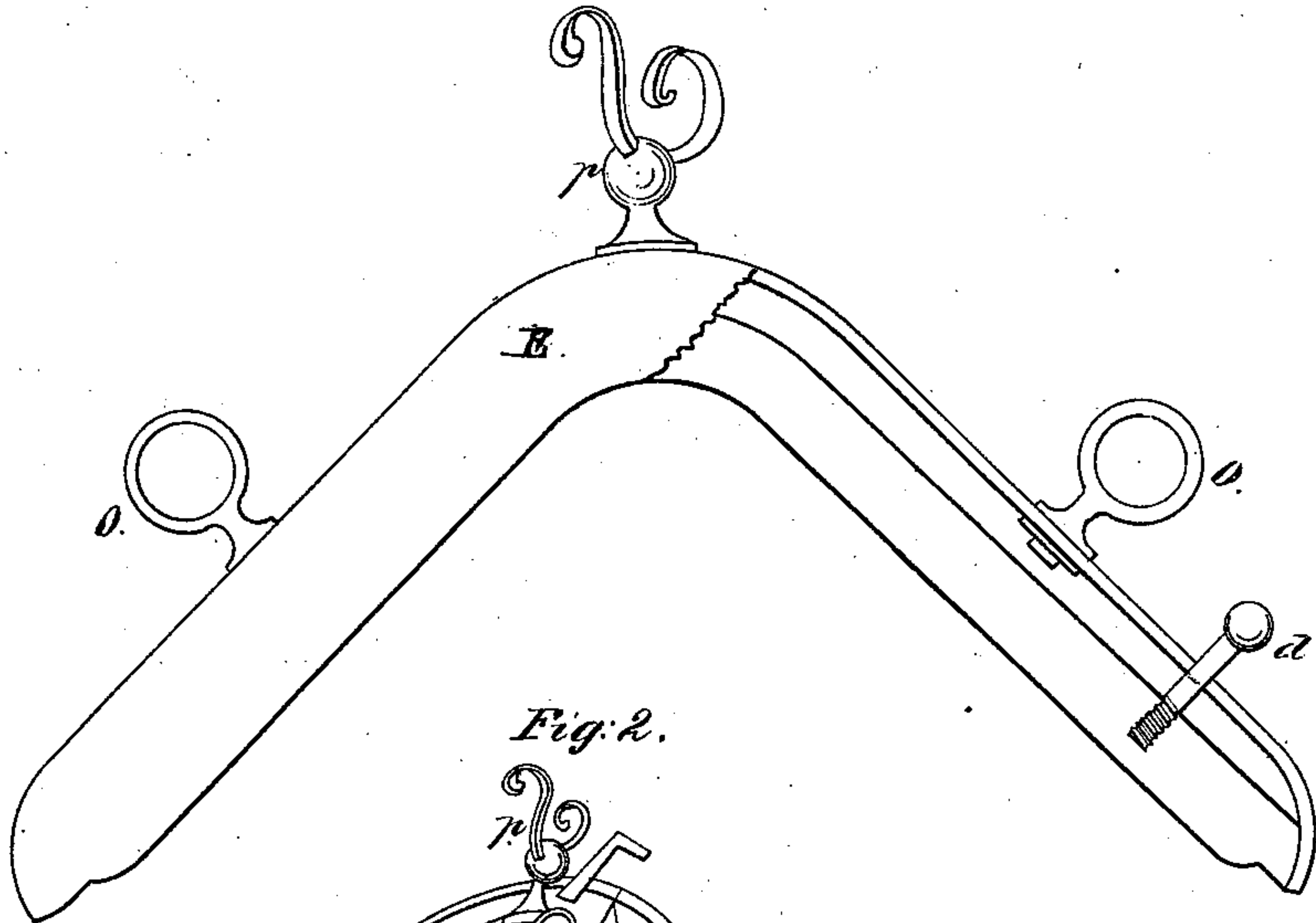


Fig. 2.

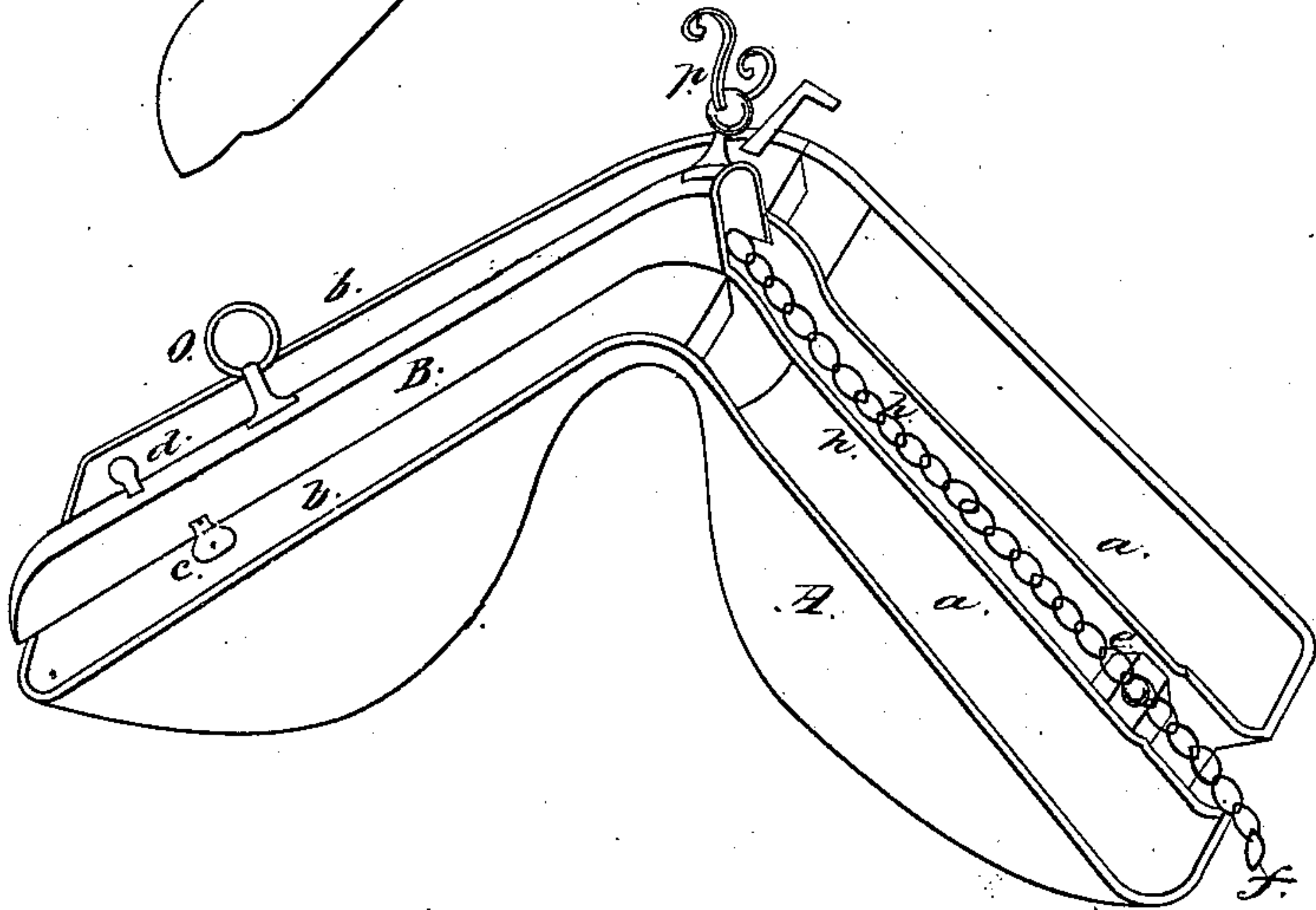
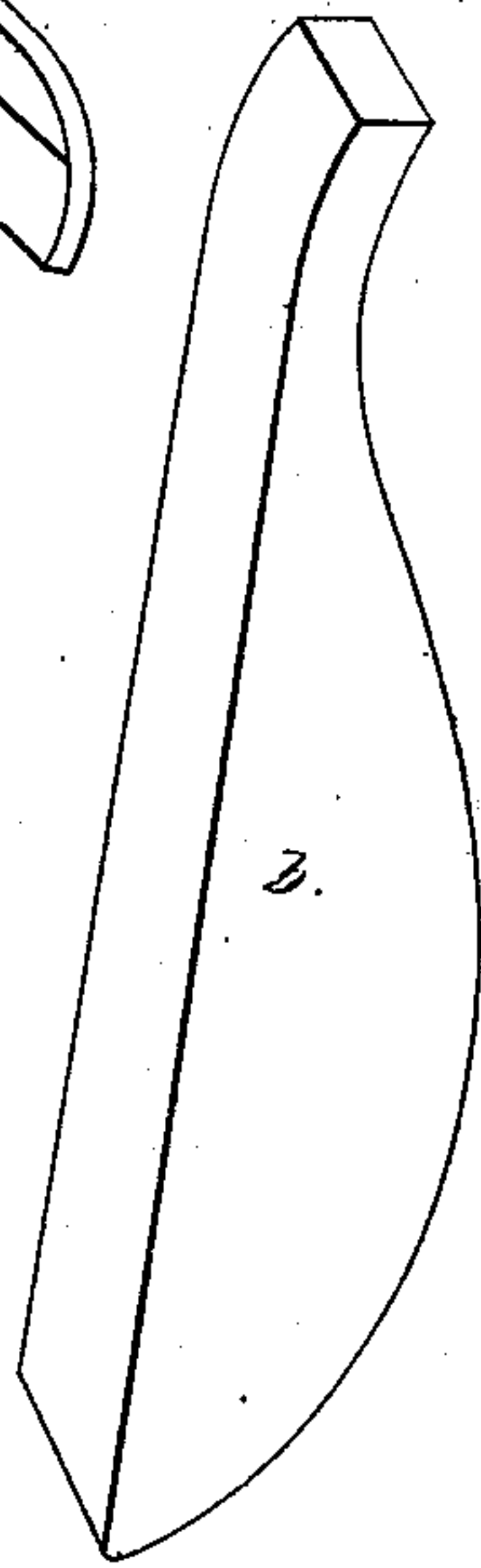


Fig. 3.



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EMERY E. HARDY, OF NEW YORK, N. Y.

CART-HARNESS.

Specification forming part of Letters Patent No. 44,185, dated September 13, 1834.

To all whom it may concern:

Be it known that I, EMERY E. HARDY, of the city, county, and State of New York, have invented a new and useful Improvement in Saddles for Cart-Harness; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

Figure 1 represents a side view of the bridge-piece of my improved saddle, a portion being broken away to show the inside of the same. Fig. 2 represents my invention in perspective, the left-hand side showing all the parts in place and representing the invention complete, the right-hand portion showing certain parts removed, so as more fully to illustrate the construction of the shell or main part. Fig. 3 is a view of one of the parts detached.

A in Fig. 2 represents a thin shell, made of cast iron, of a proper shape and size to fit the animal's back, being made smooth and without any projecting points on its under surface, which is to rest upon the animal's back. The back or upper surface of the shell A is divided into three parts by the two ridges or flanges *h h*, which run longitudinally of the shell and are cast with it. The two outer portions simply form recesses for rendering the shell as light as possible, while the central part between the flanges *h h* constitutes a channel to receive the chain *f* or a strap, when the latter is used in lieu of the chain, as it obviously may be.

B of Figs. 1 and 2 represents a bridge-piece, also made of cast-iron. This bridge-piece B is made thin and light, and is hollowed or channeled out on its under side, as clearly shown in Figs. 1 and 2, and is of such form and size as to cover the central channel in A, the lower edges of B resting snugly upon the flanges *h h*, where it is securely held in position by the pins *d*—one on each side—the lower ends of which are provided with a screw-

thread, as shown in Fig. 1, and which screw into the lugs *c*, cast in the central channel for that purpose. This style of securing B to A is used when the chain *f* is used; but it is obvious that the pins *d* may be dispensed with and the bridge-piece B secured to shell A by means of the flanges or lugs *c*, which may be cast solid with B or may be made separate, and then riveted or screwed fast. The terrets *o o* and check-hook *p* are secured to B either by screwing them into screw-holes fitted to receive them, or they may be secured by nuts underneath in the usual manner.

To render the upper surface of A smooth and give it a more finished appearance, the recesses *a a* are filled with blocks *b*, of wood or other light material, made of a suitable shape to fit therein accurately and come flush on the top. These may be fastened by screws passing through the edges of the shell into them, or in any other suitable manner.

If a fancy article, or one of fine finish is desired, as is frequently the case, the bridge-piece B may be plated and the top of A with blocks *b* can be covered with patent-leather or any other suitable material.

It will be understood that the shell A is provided with a suitable pad where it rests upon the animal's back; but as this shell is shaped so as to fit the back a much smaller and less cumbersome pad than usual will answer.

By my improvement I dispense with the clumsy saddles now used in cart-harness and substitute for it one that is smaller, lighter, and far more elegant, and that fits the animal's back much better. It is strong, durable, and cheap, and can be made as highly ornamental as may be desired.

Having described my improvements, what I claim as my invention, and desire to secure by Letters Patent, is—

1. The shell A, of such form as to adapt it to the animal's back, and provided with the flanges or ribs *h h*, forming the recesses *a a*, and the central channel, as shown, and having its under surface smooth and free from projections.

2. Providing the central channel with the screw-sockets *e* by casting the same therein, as shown.

3. Filling the channels or recesses *a* by blocks of wood or other suitable material, to form a smooth surface on top, substantially as shown.

4. The bridge-piece B, when made substantially as shown and used in combination with shell A.

5. Attaching the bridge-piece B to A by means of the pins *d*, or by the flanges *c*, as shown.

6. The terrets *o o* and check-hook *p*, in combination with bridge piece B, as shown and described.

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Witnesses:

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