

Gustavus Elbel.

PATENTED MAY 31 1870

103588

Revolving Back Band Hook.

Fig. 1.

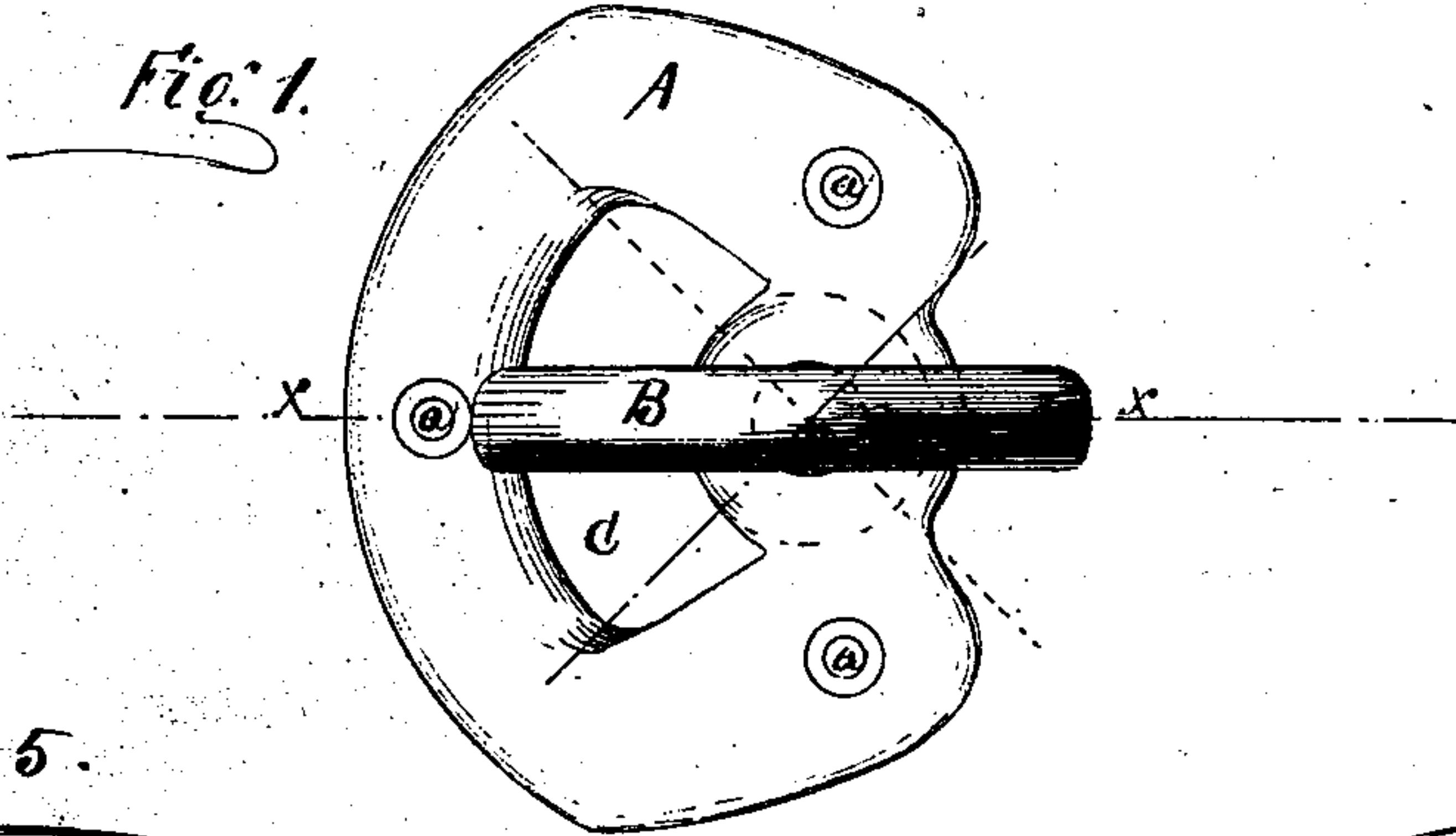


Fig. 5.

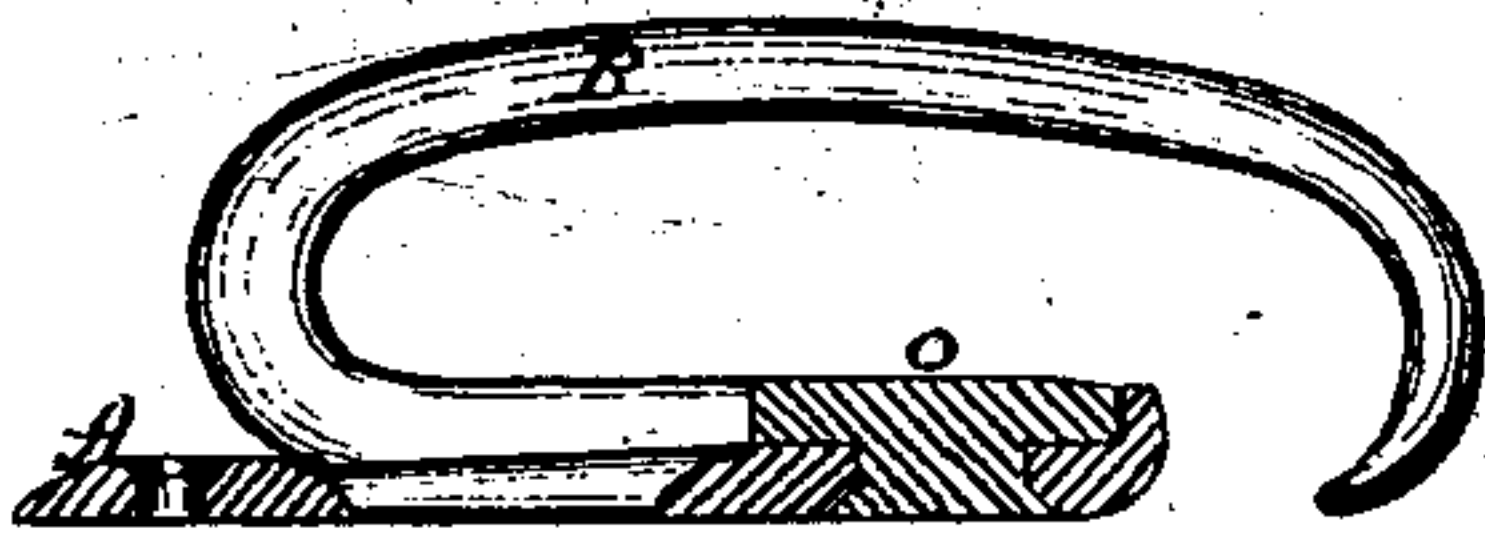


Fig. 2.

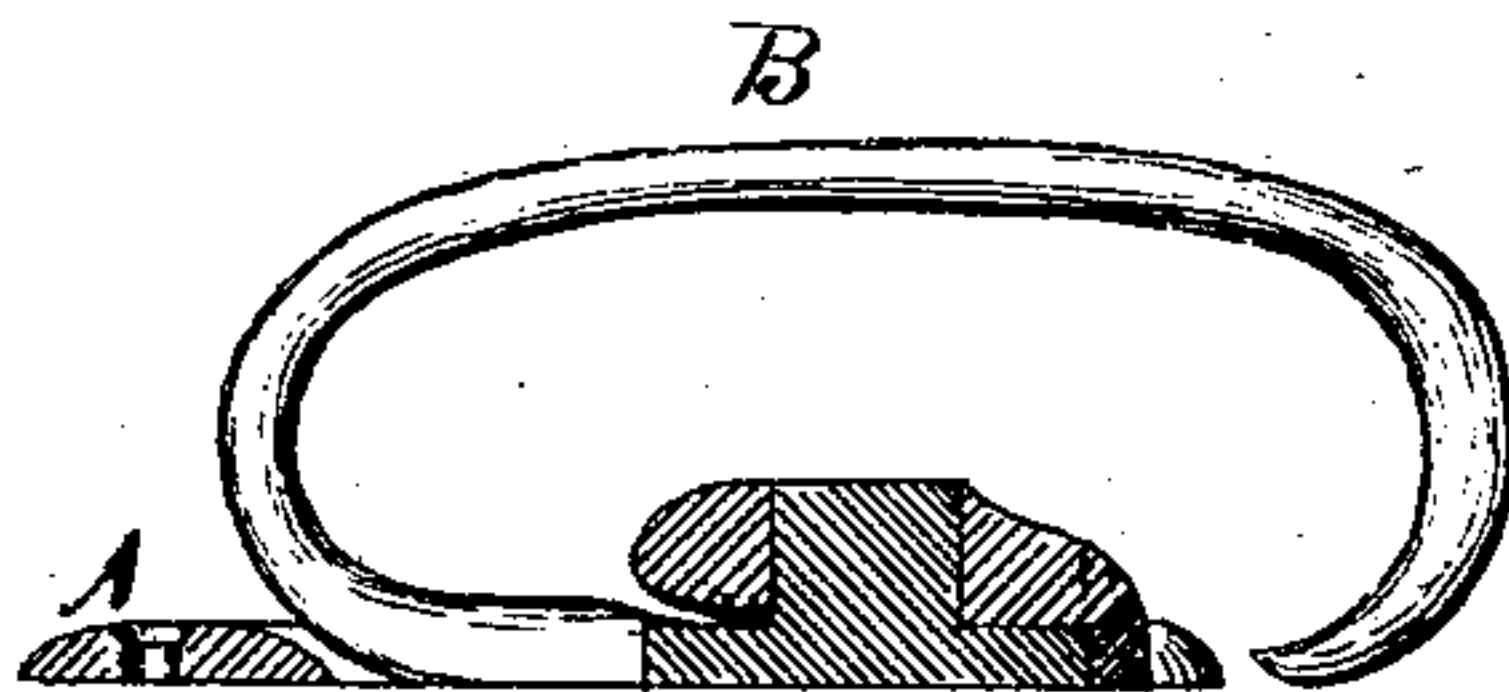


Fig. 6.

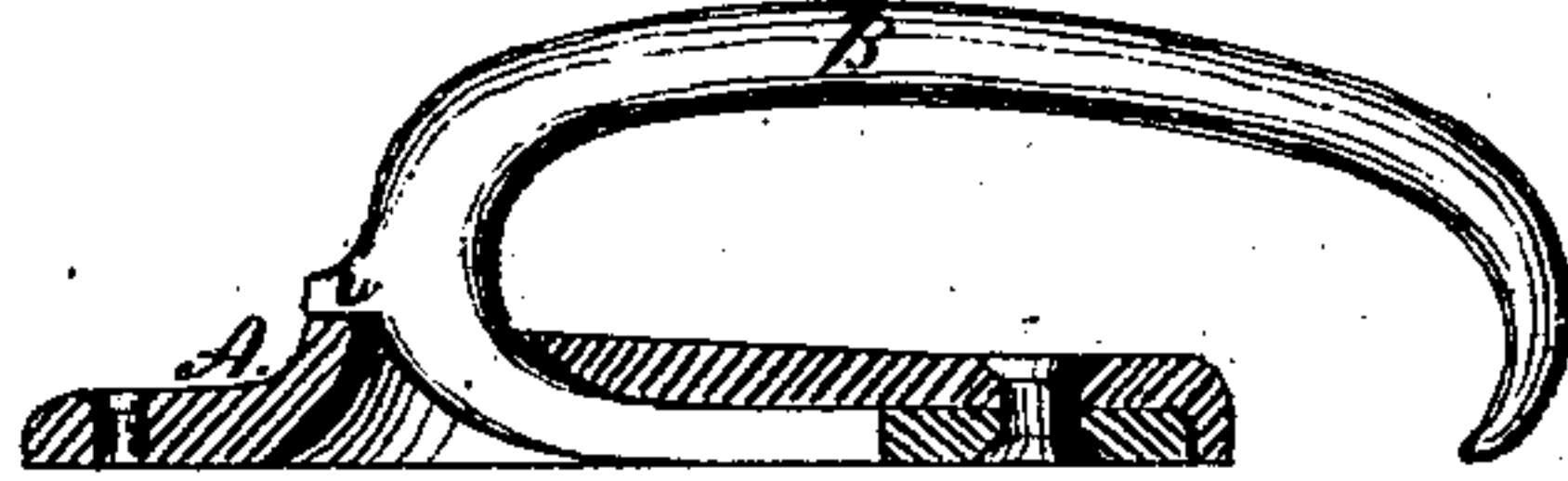


Fig. 3.

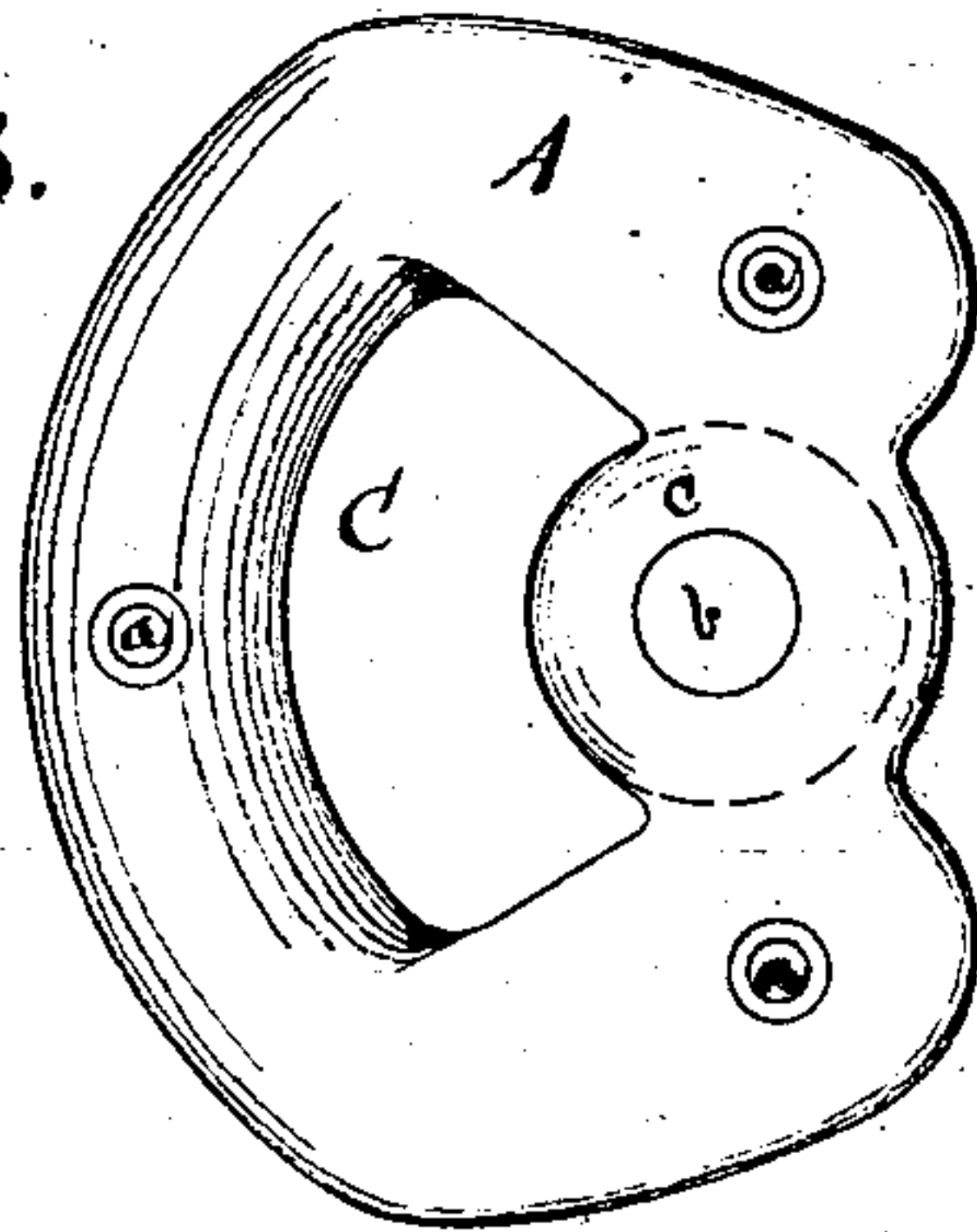
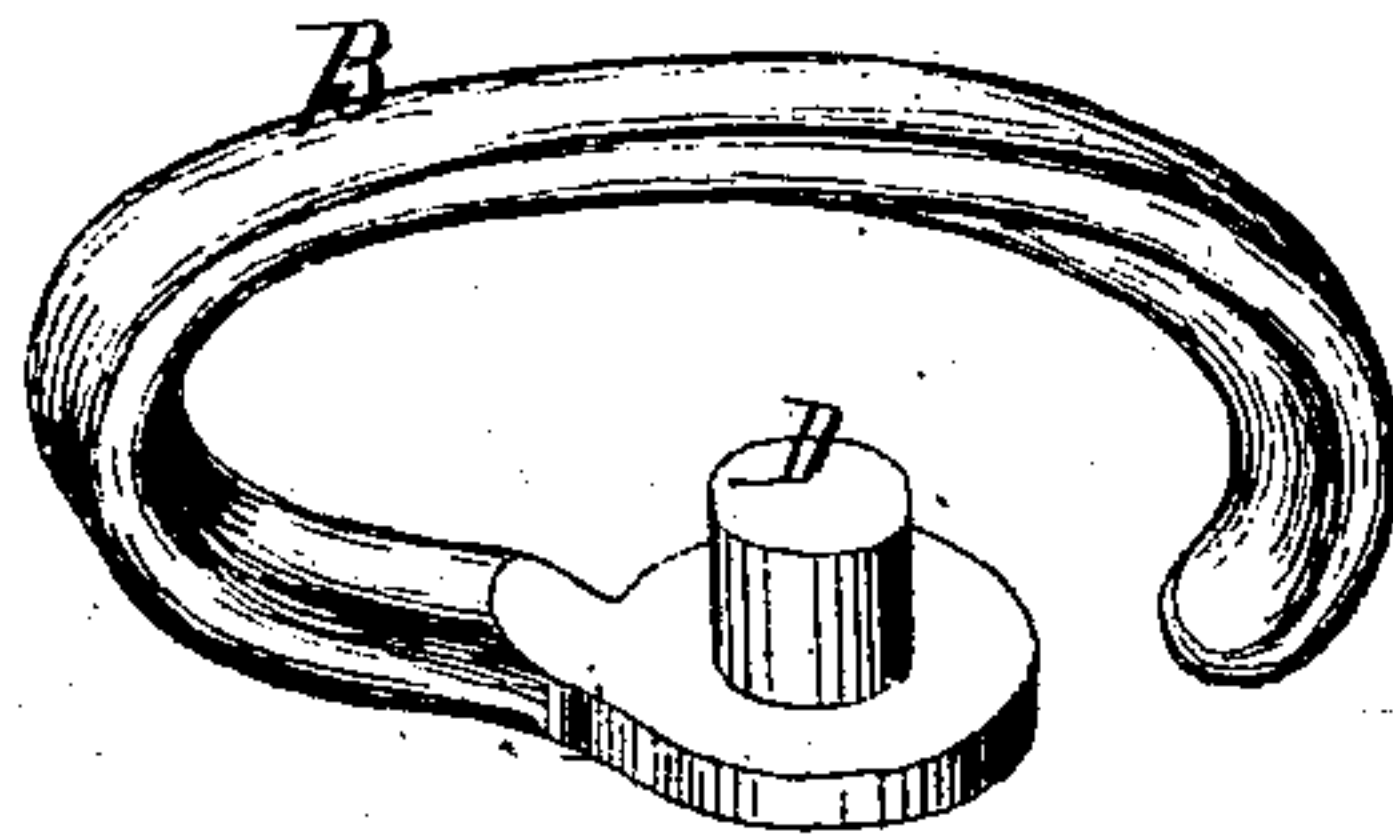


Fig. 4.



Witnesses:
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GUSTAVUS ELBEL, OF PITTSBURG, PENNSYLVANIA.

Letters Patent No. 103,588, dated May 31, 1870.

IMPROVED REVOLVING BACK-BAND HOOK FOR HARNESS-SADDLES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GUSTAVUS ELBEL, of the city of Pittsburg, county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Harness-Buckles, that I denominate the "Revolving Back-band Hook;" and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, in which—

Figure 1 is a top view of my invention, ready to be applied to the back-band of any harness.

Figure 2 is a vertical sectional view of said hook, taken in line drawn between the points *x x*, fig. 1.

Figure 3 is a top view of the plate to which the hook is attached.

Figure 4 is a sectional view of the hook unattached from the plate.

It is apparent that this buckle will admit of several modifications in its construction without changing the principle of construction and operation; and

Figures 5 and 6 illustrate changes that may be made in the buckle.

The nature of my invention consists in the construction of a metallic hook in two parts, consisting of the plate to which the hook may be attached, and the hook itself. These may be cast in the usual manner, made of malleable or other iron or suitable material, and are readily adapted to any harness, either to the back band or a saddle used as harness.

My invention further consists in the construction of a buckle to be applied to the back-band or harness-saddle, in such a manner as to admit of the hook through which the bridle check-rein passes turning easily to the right or left, to accommodate itself to the movement of the horse's head in those directions.

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

I take a piece of metal, of the size of about two inches by three, or of such size as may be considered desirable for the kind of harness upon which it may be used, and have the same cast, molded, or worked into the shape or form, or approximately thereto, as shown at A, figs. 1 and 2.

A slot, or space, C, is left in the plate, within which the bend of the hook B is allowed to traverse to the right or left, as shown in dotted lines in fig. 1. This plate is cast, molded, or worked in one piece.

a a a, in plate A, are holes made in it, through which screws or rivets may be passed into and through the backband or saddle, so that the plate is firmly attached thereto.

Before riveting or screwing the same to such back-

band or saddle, the hook B is attached to plate C, by inserting the pintle D, which forms a part of the hook, into the hole *b* formed in the plate, a recess being formed in the under side of the plate A to receive the flange surrounding said part D, so that the lower surface of said plate will be a perfect plane after the insertion of the hook, as shown in fig. 2.

When the check-rein of the bridle is attached to this hook, the latter moves freely in either direction, to accommodate the movement of the head of the horse either to the right or left.

Much difficulty has been experienced by having a rigid connection of the hook to the saddle or back-band, and often a buckle upon the check-rein is caught upon such a hook and the rein broken, or the horse becomes restive. This evil is entirely overcome by my arrangement.

This kind of hook can be manufactured with great facility as an article of manufacture. The parts may be easily duplicated when broken or worn, and the whole can be applied, in the manner above described, by any common farmer or persons having charge of horses and harness.

The modifications shown in fig. 5 consist only, or substantially, in applying the hook B to the upper portion of the plate A, the projection at *o* being formed upon the lower side of said hook and riveted to its under side, as shown in said figure, so as to admit of an easy play and movement in either direction to the right or left, a recess being formed on the under side of plate A, to allow for such riveting, and presenting a plane surface upon the under side of said plate A; and in fig. 6 a lip, *i*, may be formed upon the hook, to rest upon the outer edge of the segmental slot C, and at *o* a rivet, separate and detached from the hook or plate, may be used to fasten the hook and plate together, in the manner shown.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination and arrangement of the hook B and plate A, in the manner and for the purpose herein described.

2. The construction of the hook B, having formed upon it the pintle or projection D, in the manner and for the purpose herein described.

3. The plate A, containing within it the slot or open space C, and having formed upon its lower side a socket, *c*, to admit of the reception of the hook, in the manner and for the purpose herein described.

GUSTAVUS ELBEL.

Witnesses:

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