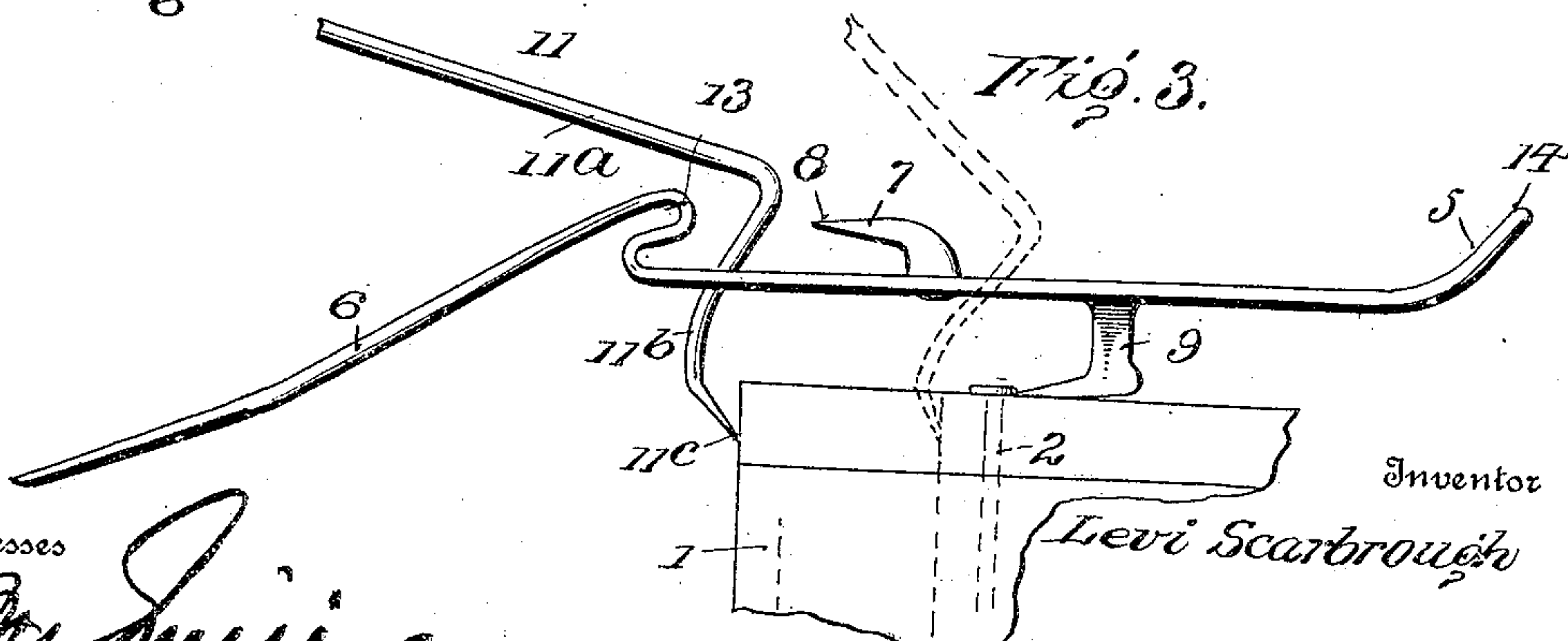
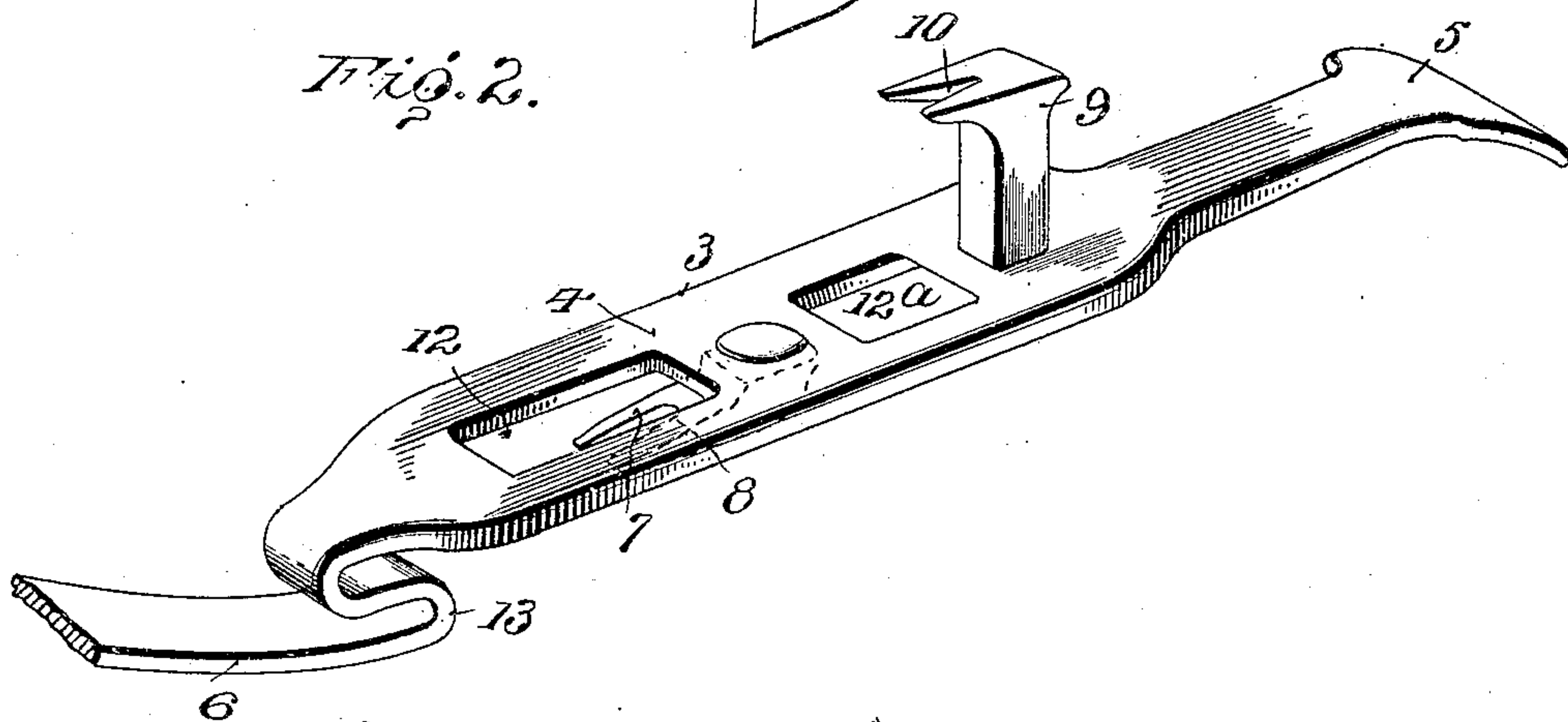
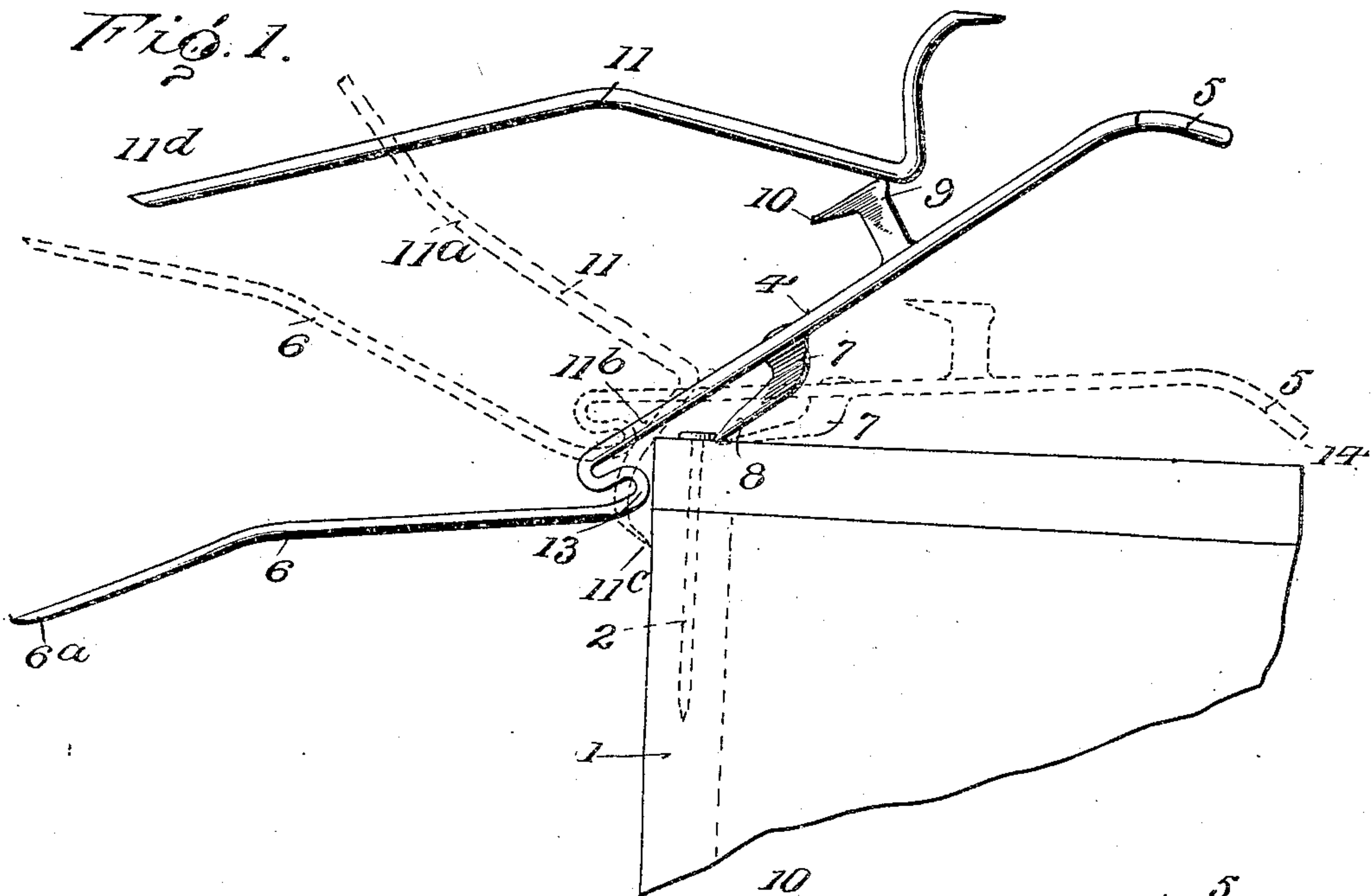


L. SCARBROUGH.
NAIL PULLER.
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Patented Nov. 16, 1909.



Witnesses
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NAIL-PULLER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEVI SCARBROUGH, a citizen of the United States, residing at Kell, in the county of Marion and State of Illinois, have invented certain new and useful Improvements in Nail-Pullers, of which the following is a specification.

The object of my invention is to provide a device for extracting nails from packing boxes, crates or other constructions of like character without mutilating the material from which the nails are withdrawn, and, further, to provide an extracting device which may be drawn into engagement with embedded nail heads.

The invention consists, essentially, of a metal bar having an intermediate body portion, a supporting end and a handle, said intermediate body portion having nail gripping claws of different characters attached on opposite sides thereof, these claws being located adjacent to suitable openings made through the body of the bar. Through these openings an operating lever is introduced by means of which the body portion may be drawn in one direction to engage the claws with an embedded nail.

For a full understanding of the invention, reference is made to the following description and accompanying drawing, in which—

Figure 1 is a side elevation of my improved nail puller, various positions of the same being shown in dotted lines. Fig. 2 is a perspective view, and Fig. 3 is a side elevation, illustrating another manner of using the nail extractor.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings, the nail puller is illustrated in Fig. 1 in its operative position when about to engage a nail head, the numeral 1 designating a box or other like construction into which is embedded a nail 2. My improved extractor 3 consists of a flat body portion 4 formed at one end with a broadened support or foot 5 and at its opposite end with a longitudinally reduced portion 6 which forms a handle whereby the extractor may be operated in the manner of a lever. A nail gripper 7 is riveted or otherwise secured to the body portion 4 on one side thereof intermediate of its ends and is provided with a somewhat elongated sharp pointed claw 8 adapted to engage the head

of the nail when embedded in the wood, the manner of forcing the claw into engagement being shown in full lines in Fig. 1. In order to force the claw 8 in engagement with the nail even when the same is embedded, I form the opposite face of the bar 4 with a hammer head 9. Blows struck upon the hammer head 9 will force the claw 8 downward, as shown in Fig. 1. Formed in one piece with the hammer head 9 is a claw 10 similar to the claw 8, which differs slightly in form from the claw 8 sufficiently so that it may be used under different circumstances, and it will be seen that it is located nearer the foot 5 than is the claw 8. This permits it to be used when the nail to be withdrawn is at a greater distance from the edge of the box than is the nail shown in Fig. 1.

The flat bar portion 4 of the extractor is reduced, as before stated, and is bent, as at 13, upon itself and then extended to form the handle 6, this bend being located just forward of the opening 12. The bar 4 has two of these openings 12 and 12^a. The opening 12 is located just in advance of the nail gripper 7 and the opening 12^a is just in advance of the nail gripper 10. 11 designates an operating lever, comprising a handle 11^a which at one end is angularly bent, as at 11^b, the termination of this angularly bent portion being then outwardly bent as at 11^c and here provided with teeth or pointed projections designed to engage the end of the box or other object from which the nail is to be withdrawn. The angular end of the lever 11 is of width sufficient to permit it to be introduced either through the opening 12 or the opening 12^a depending upon circumstances, and to engage with the forward edge of such openings, as shown in Fig. 3. It will be obvious from the drawings that in this position, if the lever 11 be depressed, the angular end thereof will engage with the bar 4 and will draw the same forward, thus drawing the claws 7 or 10 into engagement with the nail head. In the position shown in dotted lines in Fig. 1 it will also be seen that the angularly bent end 11^b of the lever 11 will engage with the returned bend 13 of the handle 6, thus assisting in drawing the extractor into engagement with the nail head.

The support of the foot 5 is so formed as to engage the surface of the box or other object and prevent the extractor from slipping when the nail is being withdrawn.

The extremity of the handle 11 and the extremity of the handle 6 are both reduced, as shown at 11^a and 6^a, respectively, and may be used for prying off the sections of boxes or crates after the nails have been started. The operation of my invention is as follows: In order to engage the claw 8 with the head of the nail it is only necessary to place the extractor in the position as shown in Fig. 1. A blow on the hammer head 9 will now force the claw 8 downward and the blade-like end thereof will be forced into the wood beneath the nail head. After the claw 8 is partly engaged it may be drawn into full engagement with the nail by using the lever 11, as shown in dotted lines in Fig. 1. After the claw 8 is in full engagement with the nail, the handle 6 is lifted, whereupon the foot 5 will contact with the box and act as a fulcrum and the nail may be readily withdrawn. Practically the same operation is performed when the claw 10 is used. It will be seen from Fig. 3 that the lever 11 may be placed in either the opening 12^a or 12 and that thus the extractor may be used when the nails are at different distances from the edge of the box, the operation in both cases being practically the same.

Having thus described the invention, what is claimed as new is:

1. A nail extractor comprising a flat body portion having nail engaging claws projecting from one face thereof, said body portion being provided with a plurality of openings therethrough, and a lever entirely separate from but engageable with the body portion through any of these openings and adapted to fulcrum against the object from which the nail is to be withdrawn.

2. A nail extractor comprising a flat body portion having opposed nail engaging claws projecting from opposite faces of the body portion and located at different positions longitudinally along the body portion, in combination with a lever detachable from but engaging with the body portion and adapted to fulcrum against the object from which the nails are to be withdrawn.

3. A nail extractor comprising a body portion having a foot at one end and a handle at the other, said body portion being provided with a plurality of slots therethrough, a nail engaging claw secured to one face of the body portion and projecting

therefrom and a lever having an angularly bent end adapted to be passed through any one of said slots and to engage with the side of an object from which the nail is to be withdrawn.

4. A nail extractor comprising a flat body portion having a plurality of slots therethrough, said body being formed at one end with a fulcrum foot and at the other end with a handle, opposed nail engaging claws projecting from opposite faces of the body portion, and a lever having an angularly bent end with an outwardly bent termination, the angularly bent end of the lever being insertible through any one of the slots and the termination being engageable with the side of an object from which the nail is being withdrawn.

5. A nail extractor comprising a flat body portion having a downwardly bent end forming a foot and a handle at the opposite end, said body being formed with two adjacent slots therethrough, a nail engaging claw attached to one face of the body portion between slots and projecting toward the handle end of the device, a nail engaging claw projecting from the opposite face of the body portion and located between the fulcrum foot and the slot adjacent thereto, and an operating lever having an angularly bent end provided with an outwardly turned termination, the angularly bent end of the lever being insertible through one or the other of said slots and the termination being engageable with the side of an object from which the nail is to be withdrawn.

6. A nail extractor comprising a flat body portion having a handle at one end, a downwardly turned fulcrum foot at the other end, and a nail extracting claw projecting from the underface of the body portion, and directed toward the handle, and a lever engaging the body portion and the object from which the nail is to be withdrawn, whereby the body portion may be longitudinally moved to force the claw into engagement with the nail.

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

LEVI SCARBROUGH. [L. S.]

Witnesses:

J. F. RUSSELL,
ROBT. MARTIN.