

(No Model.)

W. M. VISER.
NAILING IMPLEMENT.

No. 371,863.

Patented Oct. 18, 1887.

Fig. 1.

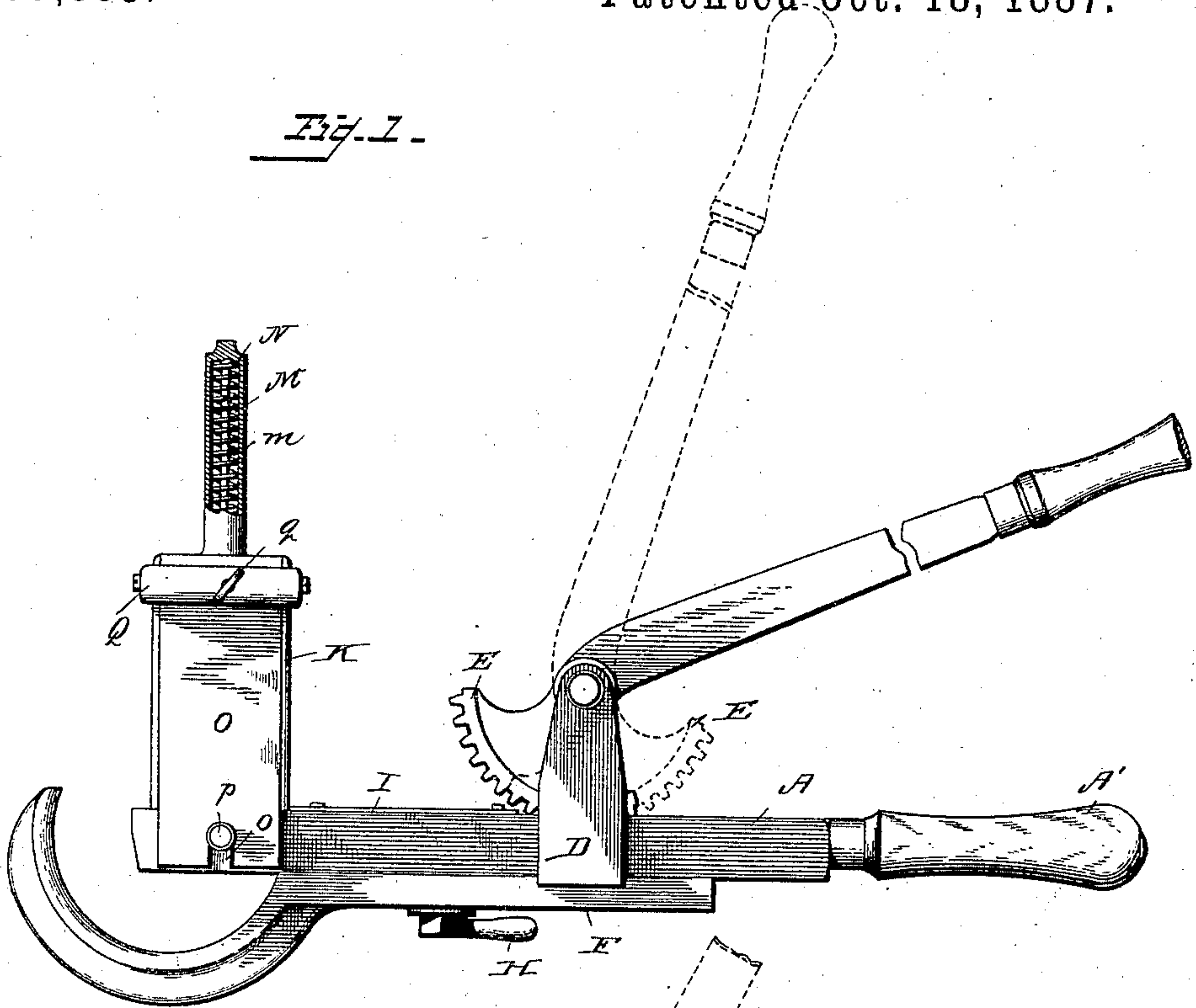
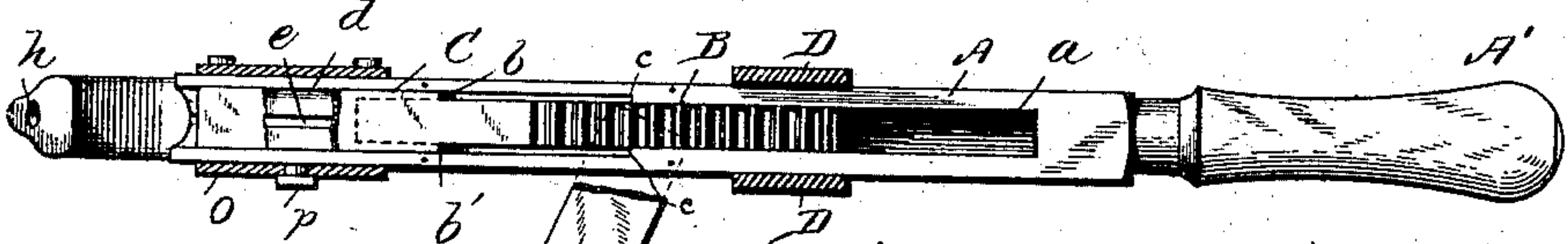
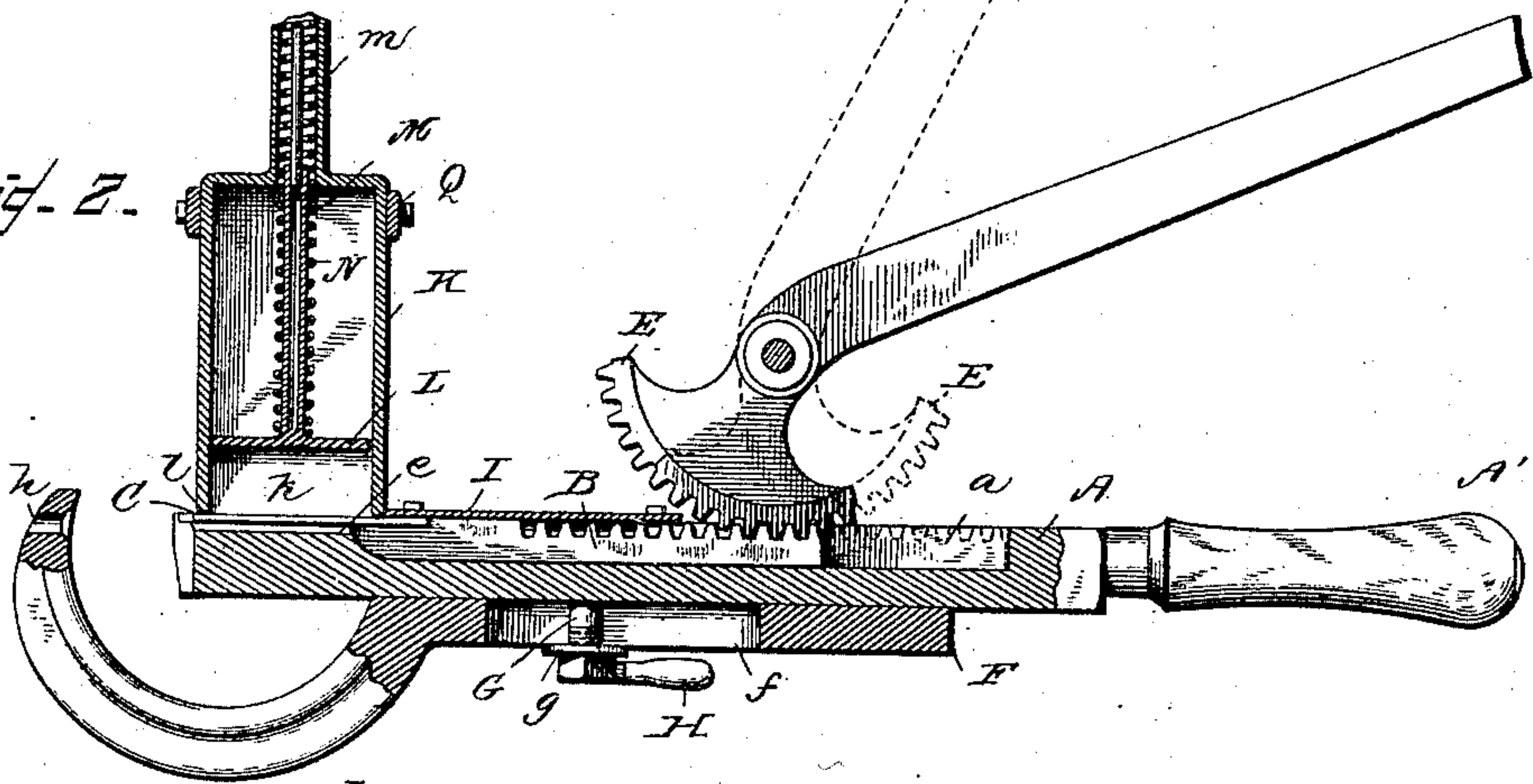
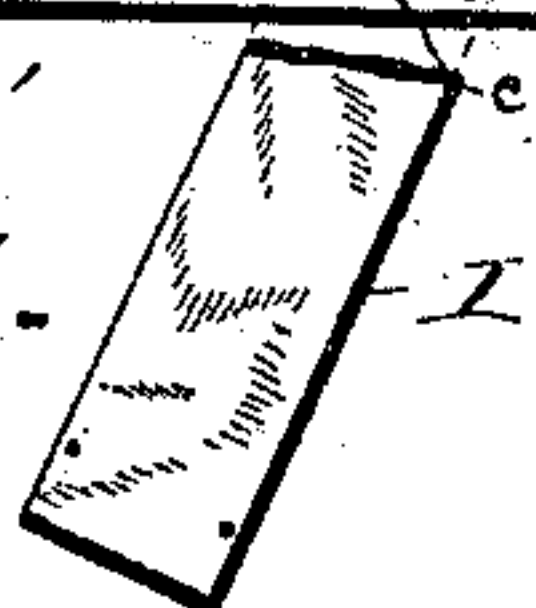


Fig. 2.



Witnesses
"M. J. Steiden."
Alfred T. Sage.

Fig. 3.



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UNITED STATES PATENT OFFICE.

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NAILING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 371,863, dated October 18, 1887.

Application filed August 6, 1887. Serial No. 246,318. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. VISER, a citizen of the United States, residing at Maysville, in the county of Mason and State of Kentucky, have invented certain new and useful Improvements in Nailing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to devices for securing together two or more pieces of material, designed more particularly for use in the making of hedge fences of that class wherein the plants composing the hedge are inclined alternately in opposite directions and secured together at their points of intersection by means of a nail or the like passed through the plants; but I do not intend to restrict myself solely to such use.

The object of the invention is to provide a simple and durable instrument by which the plants may be secured together in a rapid and easy manner without injury to the plants or to the hands of the person making the fence.

To this end and to such others as it may pertain the invention consists in the peculiar combinations and the construction, arrangement, and adaptation of parts, all as more fully hereinafter described and claimed.

The invention is clearly illustrated in the accompanying drawings, in which Figure 1 is a side elevation with parts broken away. Fig. 2 is a central vertical longitudinal section of my device. Fig. 3 is a top plan with parts removed.

Referring by letter to the details of the drawings, A represents what I term the "bed-plate," slotted longitudinally upon its upper face, as shown at *a*, and provided at one end with suitable handle, A'. Fitted to slide longitudinally in the recess or slot *a* is a rack-bar, B, the forward end of which carries a plunger, C, which is provided at its rear end with cut-away portions *b* to form shoulders *b'*, which are designed to engage the shoulders *c*, formed in the upper face of the bed-plate, as shown, to limit the rearward movement of the

rack-bar. The extreme forward end of the bed-plate is curved, as shown, for a purpose hereinafter described, and upon its upper face near the forward end, is formed with a sunken recess, *d*, to form a guide for the plunger, and centrally within this recess is a longitudinal channel, *e*, of such a depth that when a nail is lying therein a portion of the upper longitudinal half thereof will project above said channel and lie in the path of the plunger.

Secured to and rising from the bed-plate are the lugs or ears D, which also extend a short distance below the bottom of said bed-plate, for a purpose hereinafter explained. It is a segmental rack journaled on a suitable shaft having bearings in said lug, and having teeth cut in its segmental face designed to engage the reciprocal teeth in the rack-bar B. Said rack is provided with a suitable handle by which it is operated.

F is a clamp-bar arranged upon the underside of the bed-plate. This clamp-bar is provided with a longitudinal slot, *f*, through which passes the bolt G, provided with a washer, *g*, and locking-lever H, by means of which said clamp-bar may be adjusted lengthwise of the bed-plate and held firmly in its adjusted position. The ends of the lugs D, which extend below the bed-plate, as above described, form guides for the clamp-bar and prevent wobbling thereof. The forward end of the clamp-bar is curved, as shown, and at the curved end is provided an opening, *h*, in line with the channel *e* in the bed-plate.

I is a plate removably secured on top of the bed-plate, and is made removable for the purpose of making access to the plunger easy for repairs or other causes, and serves to protect the parts from dirt.

The nail-box K is removably secured to the forward end of the bed-plate, and is provided with a substantially V-shaped bottom, *k*, which when the bottom is in place, is immediately over the channel *e* in the bed-plate, and communicates therewith by means of an opening *l*, in the point of the bottom. Any other suitable form of nail-box may be used if desired.

L is a follower within the nail-box and carried by the stem M, which has a yielding motion in the neck *m*, extended above the top of the nail-box. N is a coiled spring around said stem between the follower and the top of the

nail-box, and serves at all times to keep the follower pressed down upon the nails.

While I prefer a spring-actuated follower, I do not wish to confine myself thereto, as a gravity-follower may sometimes be found quite as efficient. The nail-box has a movable side, *O*, provided at its lower end with a slot, *o*, designed to engage a stud, *p*, projecting from the side of the bed-plate. This side is slipped in from the top, being guided by the end plates of the box and the clamp *Q*, through which passes a set-screw, *q*, designed to hold the removable side in place.

In practice the nail-box is filled with nails, and the hedge-plants or other articles to be operated upon are embraced by the curved end of the clamp-bar and the forward end of the bed-plate, which is rounded, so as not to injure the plants. The handle of the segmental rack is then thrown into the position shown in dotted lines in Fig. 1, which withdraws the plunger from beneath the opening in the bottom of the V-shaped nail-box, allowing a nail to pass therethrough into the channel *e* in the bed-plate. The handle of the segmental rack is then thrown backward, and by reason of its engagement with the rack-bar forces the plunger forward, and the nail which has just fallen into the channel *e* in the bed-plate is forced forward through the hedge-plants and clamped firmly between the curved end of the clamping-bar and the forward end of the bed-plate, as shown in Fig. 1. The operation may be repeated as rapidly as desired, for as soon as the plunger is drawn back another nail passes from the nail-box, the spring-actuated follower insuring this. The device is simple, durable, and efficient, and will at once commend itself to any one.

It will be of course understood that I do not desire to limit myself to the precise construction described, as the same may be varied to a certain extent without departing from my invention.

Having thus described my invention and set forth its merits, what I claim to be new, and desire to secure by Letters Patent, is—

1. The combination, with the nail-box and the spring-actuated follower therein, of a plunger moving at right angles to the travel of said follower, a rack-bar, and means engaging said rack-bar for reciprocating said plunger, as set forth.

2. A device for the purpose described comprising the following elements: a bed-plate, a nail-box carried thereby, a spring-actuated follower in said nail-box, a clamp-bar adjustable on said bed-plate, a plunger movable in said bed-plate at right angles to the travel of said follower, a rack-bar carried by said plunger,

and means engaging said rack-bar for reciprocating said plunger, as set forth.

3. The combination, with the bed-plate provided with longitudinal slot *a* and channel *e*, of the reciprocating plunger, rack-bar carried by said plunger, and a nail-box having a discharge-opening immediately above said channel, and a segmental rack engaging said rack-bar, substantially as described.

4. The combination, with the bed-plate provided with longitudinal slot *a* and channel *e*, of the nail-box secured to the front end of said bed-plate and having a discharge-opening immediately above said channel, a follower in said nail-box, and a plunger in the slot of the bed-plate, a rack-bar carried by said plunger, and a segmental rack having a suitable handle and engaging said rack-bar for reciprocating said plunger, as set forth.

5. The combination, with the bed-plate, nail-box, and plunger, of the lugs *D*, secured to said bed-plate and extended below the bottom thereof, and the clamp-bar on the under side of said bed-plate and held between the extended portion of said lugs, substantially as described.

6. The combination, with the bed-plate, nail-box, and plunger, of the lugs *D*, secured to said bed-plate and extended below the bottom thereof, and the clamp-bar on the under side of said bed-plate and held between the extended portion of said lugs, and means for adjusting said clamp-bar on the bed-plate.

7. The combination, with the bed-plate provided with nail-box, longitudinal slot *a*, and lugs *D*, of the rack-bar *B*, carrying plunger *C*, and means for reciprocating said plunger, as set forth.

8. The combination, with the bed-plate having longitudinal slot *a*, the nail-box, and the plunger, of the lugs *D*, secured to said bed-plate, the rack-bar carried by said plunger, and the segmental rack carried by a shaft journaled in said lugs and provided with operating-handle, substantially as and for the purpose specified.

9. The combination, with the bed-plate having longitudinal slot *a* and channel *e*, plunger, and means for reciprocating said plunger, of the nail-box having a V-shaped bottom provided with a contracted discharge bottom and arranged immediately above the channel *e*, and a follower in said nail-box, substantially as and for the purpose specified.

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

WILLIAM M. VISER.

Witnesses:

B. H. OWEN,

J. D. MOORE.