No. 872,150. PATENTED NOV. 26, 1907.

J. E. RIDINGS.

AUTOMATIC MAGAZINE HAMMER.

APPLICATION FILED FEB. 9, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

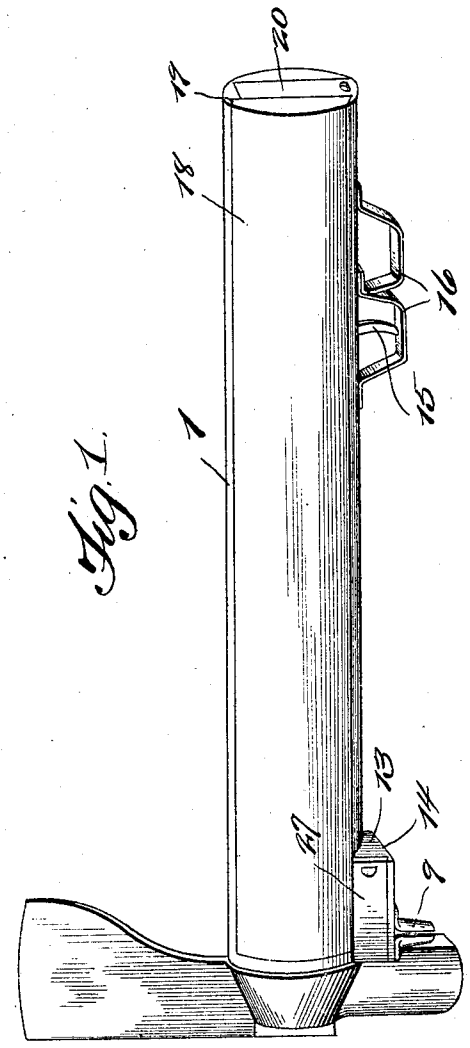
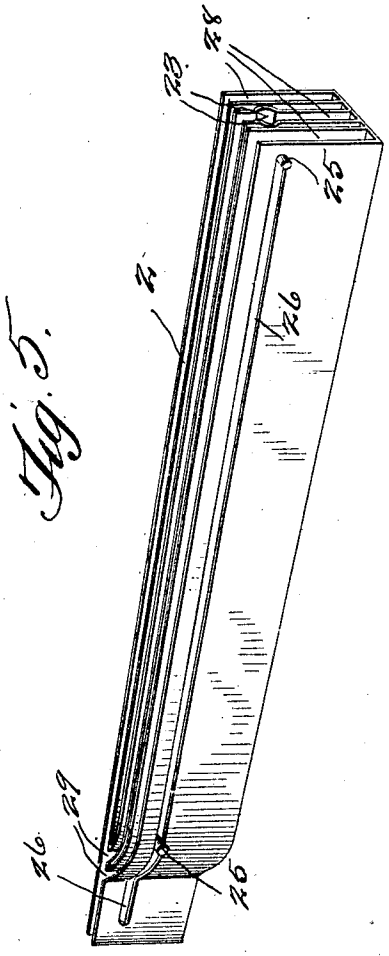


Fig. 2.



Witnesses

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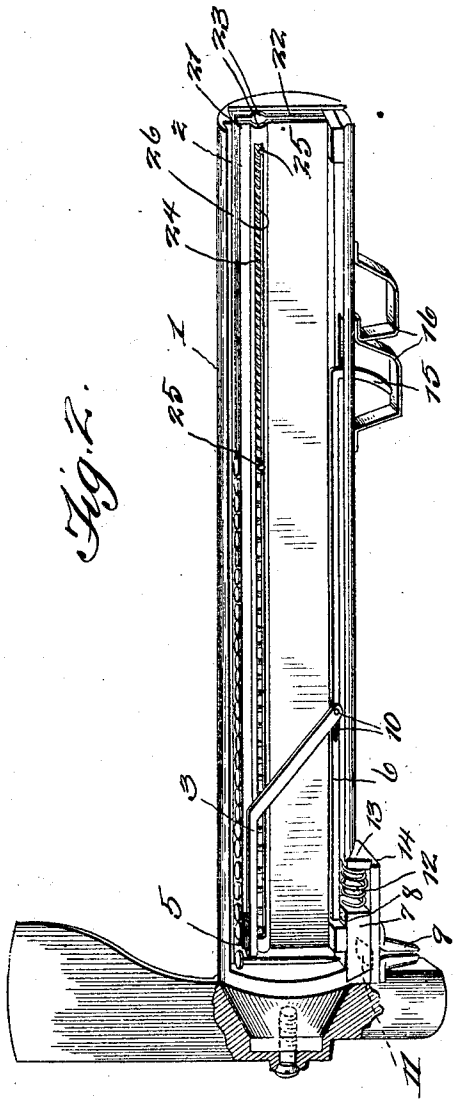


Fig. 1.

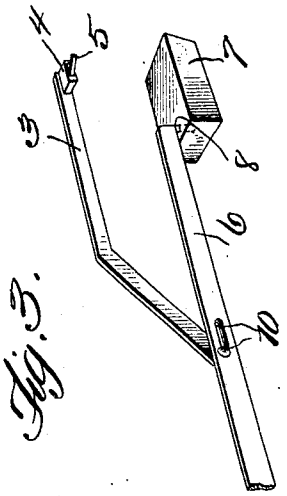


Fig. 3.

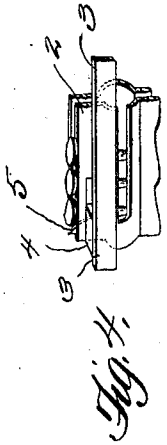


Fig. 4.

Witnesses

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AUTOMATIC MAGAZINE-HAMMER.

No. 872,150. Specification of Letters Patent. Patented Nov. 26, 1907.

Application filed February 9, 1907. Serial No. 356,641.

To all whom it may concern:

Be it known that I, JAMES EDWIN RIDINGS, a citizen of the United States, residing at Salina, in the county of Saline and State of Kansas, have invented a new and useful Automatic Magazine-Hammer; and I do hereby 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.

This invention relates to a self-feeding magazine hammer, of such a construction having a trigger by the operation of which a nail may be delivered in proper position to be driven by said hammer.

The most essential object of the invention is to provide a hammer of this nature having one or more magazines, by which a quantity of nails may be contained therein, mechanism being so arranged and operated that when desired a nail may be delivered in the correct position, at the extreme end of the striking part of the hammer, whereby the nail may be placed as desired for driving. The nail is fed to the extreme end of the striking part of the hammer and by delivering a blow with the hammer, the nail is placed; the clutch device for retaining the nail in a straight position, prior to placing it, is so constructed that it will release itself from the nail, thus making it possible to continue striking the nail until it reaches home. In obtaining the above objects, the hammer is designed in such wise that the operating mechanism may be easily reached for cleaning, or in case of accident, to its few parts; said mechanism being of such simple construction that the parts thereof, in case of accident will be very easy to repair.

This invention comprises further objects and combinations of elements which will be hereinafter more fully described, shown in the accompanying drawings, and the novel features thereof, will be pointed out by the appended claims.

To obtain a full and correct understanding of the details of construction combinations of features, elements and advantages, reference is to be had to the hereinafter set forth description and the accompanying drawings in connection therewith, wherein,

Figure 1, is a perspective view of the hammer illustrating the invention. Fig. 2 is a view of the invention showing closure slides removed displaying the exterior parts for feeding and delivering the nails. Fig. 3 is a detail view in perspective of the slides. Fig. 4 is a perspective view of a portion of the hammer. Fig. 5 is a view of a modification showing more than one magazine.

Making renewed reference to the accompanying drawings, wherein similar reference characters indicate corresponding parts, in the several illustrations by figures, 1 designates the handle of the device, in which is contained one or more magazines 2, in which the nails are carried as shown in the drawings.

The casing of the handle is provided with an elongated closure slide 18 which is provided with beveled edges 19 to engage the beveled guides of the said handle; this closure slide obscures from view the interior and working parts in the handle.

The rear end of the handle is provided with a closure slide 20, for the purpose of closing said end; this closure slide is also provided with beveled edges to engage the beveled guides of the said end, as clearly shown in the drawings. One at a time each nail is fed forward by the main feed slide 3, which operates parallel to the magazine; this feed slide is provided with a casing 4, at its end thereof, in which a spring catch 5, is positioned which as the said slide is operated will move over the nails during the backward movement of the slide but during the forward movement thereof, the nails will be fed forward as will be manifest.

The supplemental slide 6 has an enlargement 7 pivoted at its end as at 8, is operated so as to allow the nail to assume the proper position, within the clutch device 9, so as to be placed at the point to be driven. The slide 6 has a slight movement prior to the movement of the slide 3, because of the slot and pin connection 10, between the two slides this is for the purpose of withdrawing the enlargement from under the nail before the slide begins to move. This same function is performed upon the return movement of the slide 6, so as the enlargement will begin to cover the exit opening 11, for the nail, at the same time, the next nail is fed forward, as will be understood.

The magazine 2 is composed of two members 21 and 22, each of which is provided with a semi-circular longitudinal channel 23 forming a space in which a coiled spring 24 is disposed, to each end of which, is fixed pins 25, which are disposed in slots 26 of the chan-

nels 23; one of these pins bears against the rear end of each slot, while the other pin bears against the rear nail, carried in the magazine, as clearly shown this construction is for the purpose of automatically feeding the nails forward so as to be delivered one at a time in the clutch device 9, as will be clearly manifest.

Fig. 5 shows a view of a magazine having a plurality of guides 28 in which a very large number of nails may be carried; these guides 28 switch into one of the outermost guides as shown at 29; the middle guide is provided with the semi-circular channels 23, as similar to that shown in Fig. 2 and the mechanism for feeding the nails forward is also similar to that shown in Fig. 2, so therefore the same reference characters are used.

The slides are returned to the positions as shown in Fig. 2 by the action of the spring 12 which is imposed between the enlargement 7, and the wall 13, of the offset 14, formed in the casing of the handle of the hammer as shown. The offset 14 is also provided with a closure 27, so as to obscure from view the enlargement 7, the spring 12 and the connection between the said enlargement and the slide 6 and will also allow the operator to have ready access to the interior working parts of the device.

The slide 6 is provided with a trigger 15, and the casing of the handle of the hammer is provided with a trigger guard 16 as clearly shown.

It is to be understood that various changes and modifications may be employed in the construction and embodiment thereof, combinations of features, and elements, without in any way departing from the spirit and scope of the invention covered by the claims thereof; it being understood that whatever variations or modifications are employed must fall within the scope of the appended claims.

From the foregoing, the essential features elements and the operation of the device together with the simplicity thereof will be clearly apparent and when manufactured in accordance with the invention an inexpensive market will be easily obtained therefor.

Having thus fully described the invention, what is claimed is:

1. In self feeding magazine hammer a magazine, a main slide and a supplemental slide operating parallel and adjacent to the said magazine, said main slide having a spring catch device for feeding the nails contained in the magazine, said magazine having an open ended slot at its end, in which said spring catch device operates, a clutch device to receive each nail as it is delivered said slides having means of connection so as to allow the supplemental slide to have a slight movement on the forward and backward stroke thereof prior to the movement of the main slide.

2. In a self feeding magazine hammer, a hollow handle, a magazine fixed therein in which a plurality of nails are carried a main and supplemental slide to operate parallel and adjacent to said magazine, said main slide having a spring catch device for feeding a nail forward upon the forward stroke of the said slide, said magazine having an open ended slot at its end, in which said spring catch device operates, said slides having slot and pin connection so as to allow the supplemental slide to have a slight movement on the forward and backward stroke thereof prior to the movement of the main slide, a clutch device to receive the nail as it is delivered, said hollow handle having an offset, the said supplemental slide having an enlargement, said offset having a shouldered wall between which and the enlargement a spring is disposed as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES EDWIN RIDINGS.

Witnesses:
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W. R. Mitchell.