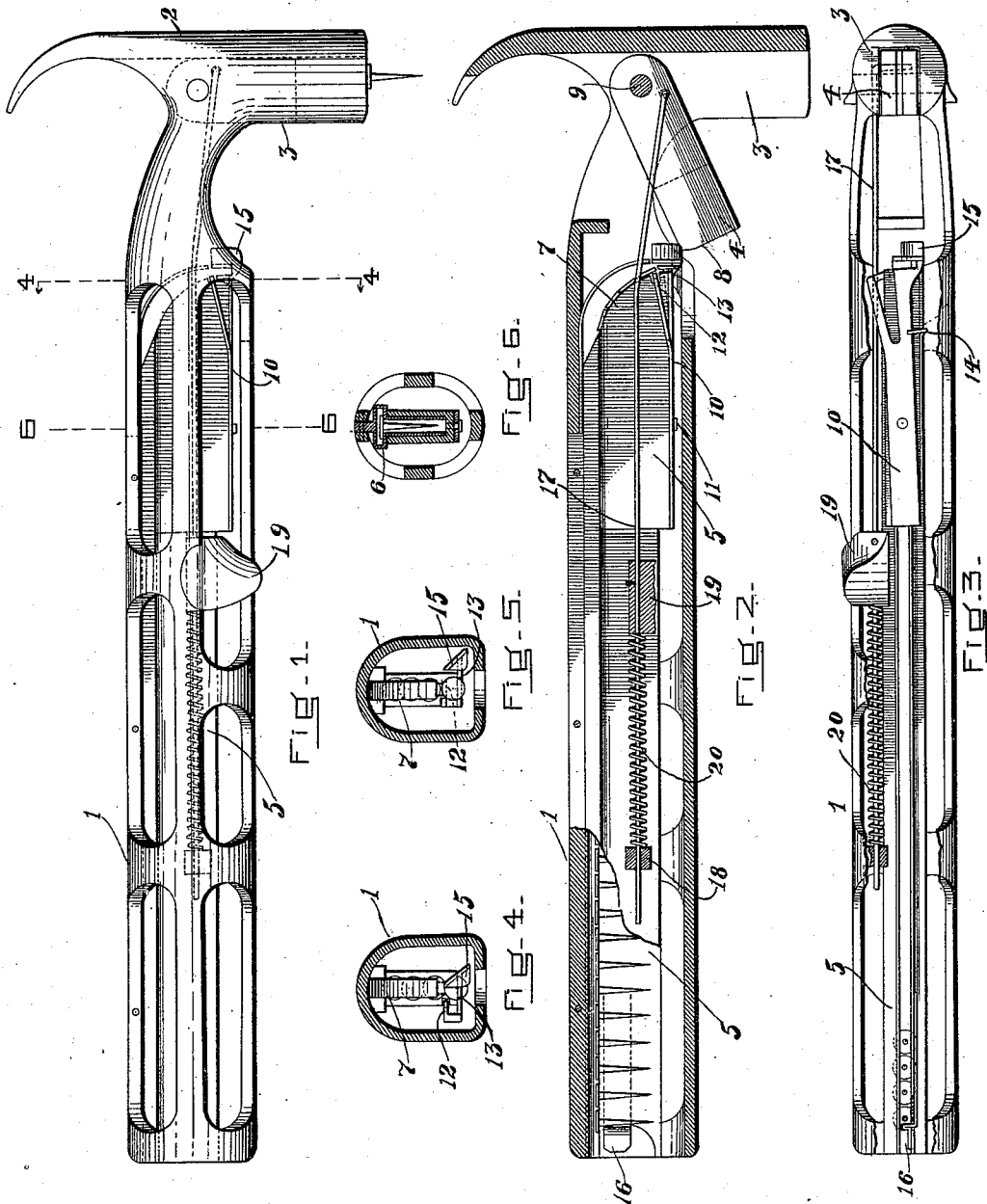


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HAMMER.

APPLICATION FILED NOV. 11, 1908.

1,001,261.

Patented Aug. 22, 1911.



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HAMMER.

1,001,261.

Specification of Letters Patent. Patented Aug. 22, 1911.

Application filed November 11, 1908. Serial No. 462,091.

To all whom it may concern:

Be it known that I, CHARLES FORTH, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Hammers, of which the following is a specification, reference being had therein to the accompanying drawing.

The invention relates to tack hammers, and in certain of its features to magazine tack hammers, and also in certain features to those operating magnetically.

Objects of the invention are to provide a tack hammer of the kind indicated which shall operate conveniently, reliably and otherwise satisfactorily; that shall be of neat appearance, and of compact and durable construction. These and other objects of invention will in part be obvious and will in part appear herein more fully.

The invention consists in the novel parts, constructions, combinations and improvements herein shown and described.

The accompanying drawings, referred to herein and forming a part hereof, illustrate one embodiment of the invention, the same serving in connection with the description herein to explain the principles of the invention.

Of the drawings: Figure 1 is an elevation of a hammer constructed in part in accordance with the principles of the invention; Fig. 2 is a vertical section, a part thereof showing the interior of the magazine and a part the tack supplying mechanism; Fig. 3 is a bottom plan view with certain parts broken away; Figs. 4 and 5 are transverse vertical sections on the line 4—4 of Fig. 1, showing the parts in different positions; and Fig. 6 is a transverse vertical section on the line 6—6 of Fig. 1.

Referring to the accompanying drawings, illustrating by way of example an embodiment of the various features of the invention, a hammer is shown provided with a handle 1 and a head 2. According to one feature of the invention, a head is provided comprising an exterior part 3 fixed with reference to the handle 1, and an interior part 4 constructed and arranged to pass into operative relation with the tack magazine 5 to receive a tack therefrom and present it in driving position. The magazine and head, or a part thereof, are relatively movable for this purpose, and the part 4 is

shown mounted for such movement on a pivot bearing 9 within the part 3. In the present embodiment according to certain features of the invention, the tacks are conveyed from the magazine and presented in driving position by magnetic action thereon of the head or a part thereof, and in the present embodiment the member 4 is magnetized for this purpose.

The magazine 5 is shown arranged longitudinally within the handle 1 and constructed to carry and guide the tacks along the runway 6. The runway 6 is shown shaped or curved at the forward portion 7 to present the tack heads to the driving face 8 of the head member 4 as it swings about its pivotal mounting 9.

Means are provided for feeding one tack from the magazine to the head member 4 while restraining the remaining tacks within the magazine and said means are further shown constructed and arranged for actuation by the relative movement of the magazine and the head member. The form thereof shown herein comprises an escapement member 10 which is movably mounted in a suitable manner, as on a pivot 11. Said escapement member 10 is shown provided with fingers 12 and 13 arranged transversely of the runway of the magazine. It is further shown as being normally impelled to the position shown in Figs. 3 and 4 by suitable means, such as the spring 14, the finger 13 serving to restrain the tacks in the magazine runway. Means for moving it transversely of the magazine are provided when the magazine and the head member are in position for delivering a tack to the head member. For this purpose there is provided in the present embodiment a cam face 15 fixed relatively to the escapement member 10 so as to be engaged and moved by the head member 4 as it swings toward the magazine. During this movement the finger 13 passes out of engagement with the lower tack, and the finger 12 passes between this tack and the next adjacent one, thus restraining the remaining tacks within the magazine, as shown in Fig. 5, while the lowermost tack is free to move away with the member 4. As the head member 4 swings or moves again toward the position shown in Fig. 1, carrying the first tack with it, the escapement member 10, under the impulsion of its spring 14, resumes its former position, the finger 12 passing out of alinement with the

magazine runway, the end tack of the magazine being now supported upon the finger 13, in position for a repetition of the operation just described.

5 A suitable device is provided for permitting the tacks to be fed into the magazine 5 and for then preventing their coming out. As shown herein it comprises a leaf spring 16 at the end of the runway of the magazine 5, said spring being constructed to yield
10 for the feeding in of the tacks and then standing across the runway to prevent their coming out.

15 In one of its aspects the invention provides in connection with a handle and a movable head or head member, means contiguous to the hand as it grasps the handle for positively holding the head in driving position. In the illustrated embodiment said
20 means is combined with means for moving the head member 4 to and fro between the receiving and driving positions for the tack. As previously stated, the head member 4 is pivotally mounted upon the member 3.
25 The form of such means shown in the drawings comprises a rod 17 connected to the head member 4 and passing within the handle having a bearing therein at 18. A finger piece 19 is shown fixed upon the rod 17 and
30 acting against this is also shown a suitable spring 20. The finger piece 19 is closely contiguous to the fingers of the hand grasping the handle, and a slight pressure of a finger on the piece 19 will actuate the head 4 during
35 the feeding operation, and a firm hold upon the handle will cause the fingers, by pressure on the opposite side of the piece 19, to hold the head member 4 securely in driving position while the tack is being driven.

In the drawings the magazine is shown 40 supplied with the ordinary pointed tacks, and tacks are also referred to in the specification, but it will be understood that nails, other kinds of tacks, as well as other similar
45 objects may be used.

The manner of using and operating, as well as the construction of, the present embodiment will be understood from the foregoing description, and it will be further understood that said embodiment realizes the
50 objects of invention and the advantages herein set forth together with other objects and advantages.

What I do claim as my invention and desire to secure by Letters Patent, is: 55

A hammer, including in combination, a hollow handle, a hollow head section rigidly connected therewith, tack storing means situated in the handle, a driving member pivoted near one end in the hollow head and
60 adapted to be swung into the hollow handle in operative relation to the tack storing means, an actuating rod extending longitudinally within the hollow handle with its forward end jointed to the driving member
65 below its pivotal axis, whereby when the rod is drawn rearwardly the driving member will be swung rearwardly to take a tack from the storing means, and means acting on
70 the rod and serving to swing the driving member forwardly to driving position.

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

CHARLES FORTH.

Witnesses:

FRANK G. PARKER,
JOHN BUCKLER.