J. POLACH.

MAGAZINE HAMMER.

APPLICATION FILED JULY 19, 1915.

1,198,575.

Patented Sept. 19, 1916.

2 SHEETS—SHEET 1.

Fig. 1.

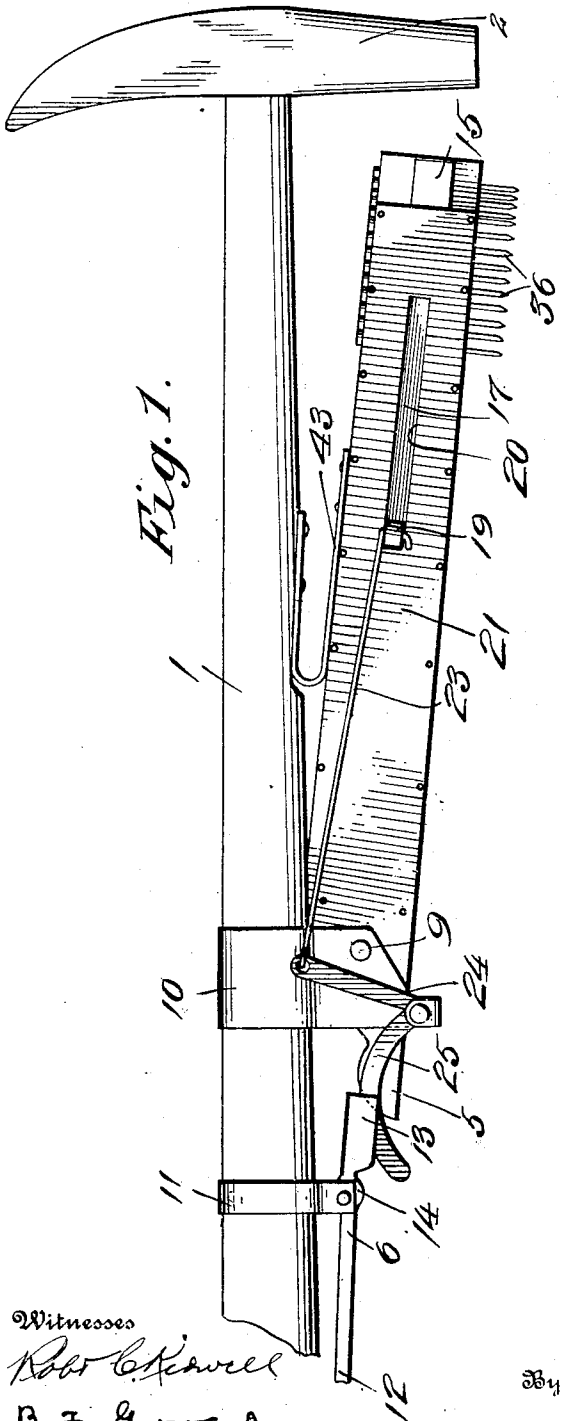


Fig. 4.

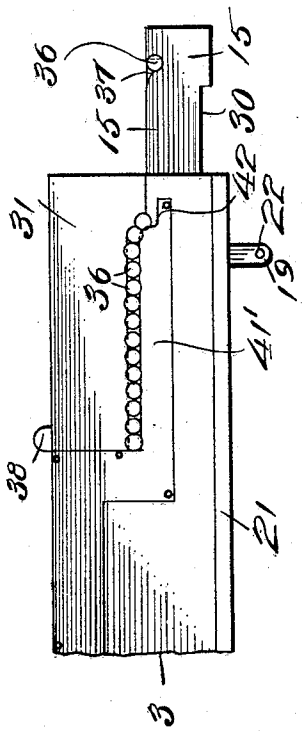
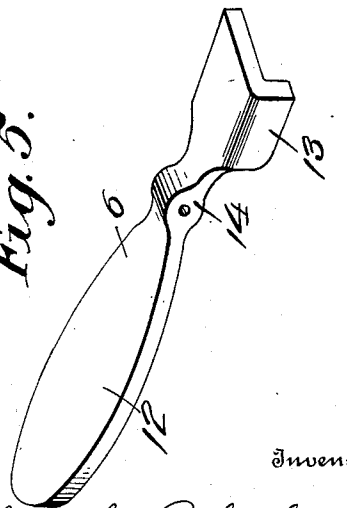


Fig. 5.



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2 SHEETS—SHEET 2.

Fig. 2.

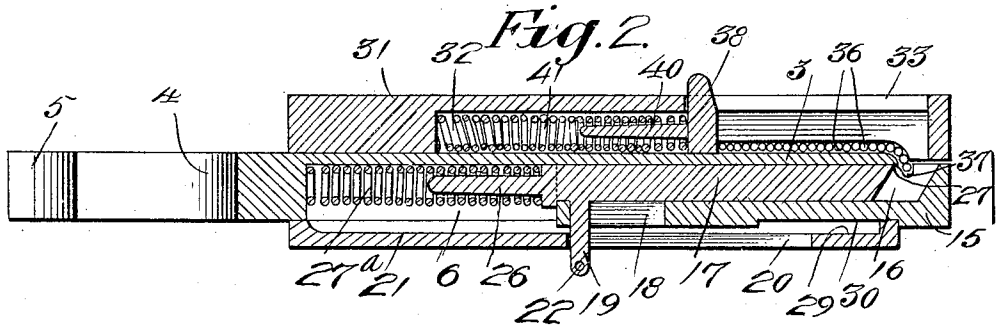
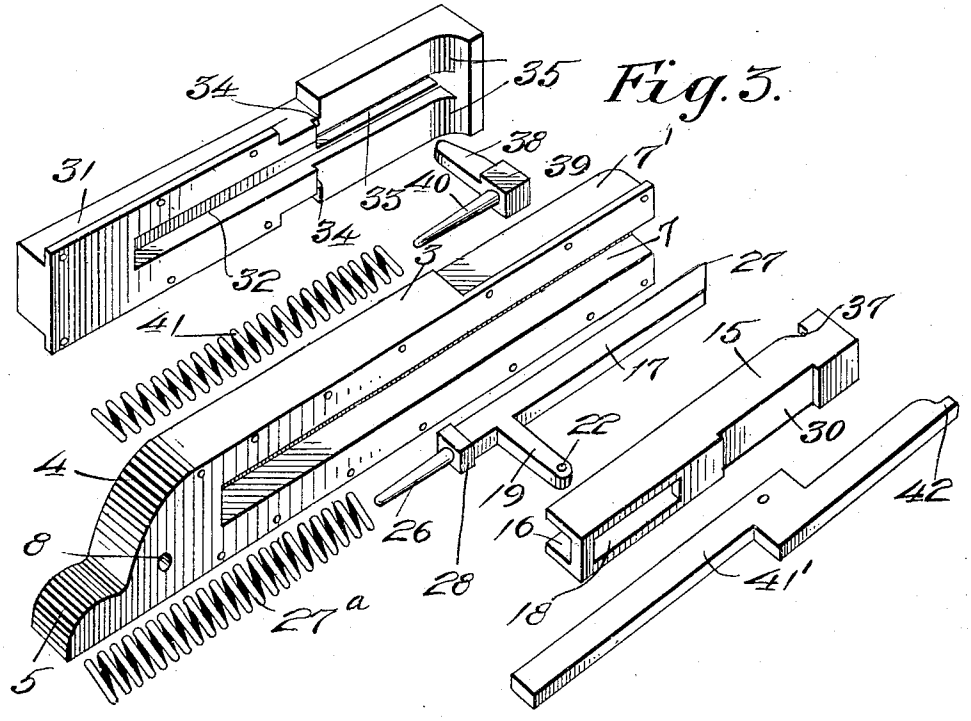


Fig. 3.



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MAGAZINE-HAMMER.

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To all whom it may concern:

Be it known that I, JOSEPH POLACH, a citizen of the United States, residing at Eureka, in the county of Humboldt and State of California, have invented certain new and useful Improvements in Magazine-Hammers, of which the following is a specification.

This invention relates to magazine hammers of that type which are adapted to carry nails, tacks, etc.

An object of the invention is to provide a magazine which is capable of association with any standard type of hammers, and which will in no way interfere with the operation of the hammer.

A further object is to successively feed the nails into juxtaposition with the hammer head, thereby permitting the nails to be singly and accurately driven by the exertion of pressure on the hammer.

Other objects as well as the nature, characteristic features and scope of my invention will be more readily understood from the following description taken in connection with the accompanying drawings and pointed out in the claims forming a part of this specification.

Referring to the drawings: Figure 1 is a side elevational view of a hammer embodying my invention, a portion thereof being broken away, Fig. 2 is a longitudinal sectional view of the nail magazine, a portion of one end being broken away, Fig. 3 is a perspective view of the component parts of the nail magazine, showing the same dismembered, Fig. 4 is a detail enlarged fragmentary view of the magazine, showing to advantage the manner in which the nails are held therein, and dispensed, and Fig. 5 is a detail enlarged perspective view of the operating lever used in this invention.

In the drawings, in order to illustrate the application of my invention, I have shown a hammer of the usual type embodying a handle 1 and head 2.

My improved magazine comprises a main body portion 3, one end of which is rounded as indicated at 4 to provide a reduced terminal 5, one face of which is of an arcuate configuration for sliding engagement with an operating lever 6. The body portion 3 is provided with an elongated longitudinally extending recess 7, which opens through one end of the body, the opposite end terminating short of the reduced portion 5. The lateral margins of the body 3 are provided, at their upper ends, with recesses 7′ each of which extends approximately one-half the length of the recess 7. An opening 8 is transversely arranged through the body 3, intermediate the rounded margin 4 and the opposite straight margin of the body, for pivotal engagement with a pin 9, the latter being fixedly carried by a frame 10. The frame 10 in the present instance comprises a strap which embraces the handle 1, the opposite sides thereof engaging the opposite faces of the body 3, the rounded margins 4 of said body abutting the periphery of the handle 1, as illustrated to advantage in Fig. 1.

The lever 6 is fulcrumed in the frame 11, subjacent the frame 10, and comprises a metallic strap, one end 12 of which is formed to provide a handle, which normally extends in approximately parallel relation with the lower end of the handle 1, the opposite end of the lever abutting the arcuate face of the terminal 5, and is provided with a right angled abutment 13. A portion of the lever 6, between the right angled portion 6 and the handle 12, is enlarged as indicated at 14, the latter being provided with an opening therein which receives a pivot pin therein, in order to permit the lever to be rocked on said pin for relatively moving the body 3.

The nail magazine further comprises a casing 15 which is slidably mounted in the recess 7 of the body 3, and is provided with an elongated recess 16 therein, which slidably receives a plunger 17. The casing 15 is provided with a longitudinally extending slot 18 therein, adjacent its (the casing) lower end, in which an ear 19 is movably mounted. The ear 19 is integrally formed upon the plunger 17 and extends laterally therefrom, through the slot 18, as above set forth, and likewise through a longitudinally extending slot 20 in a keeper-plate 21. The free terminal of the ear 19 is provided with an aperture 22, which is adapted for the reception of one end of a link 23, the opposite end of the latter being in pivotal connection with one of the arms of a bell-crank 24. The bell-crank lever 24 is pivoted at its angle on the frame 10, and has the opposite arm, from that which is in pivotal engagement with the link 23 arcuate as indicated at 25 to engage the upper end of the lever 6, the right-angled portion 13 of the latter positively holding the bell-crank from lateral displacement,

and insuring a positive operation of the same in conjunction with the body 3, when pressure is exerted on the lever 6. The lower end of the plunger 17 is reduced and has encircled thereon a coil-spring 27ª, the convolution on the lower end thereof being snugly engaged with the inner terminal of the recess 7, while the convolution on the opposite end is in engagement with the end of the plunger 17, at the jointure of the reduced portion 26. The upper terminal of the plunger 17 is beveled to provide a sharp edge 27, at the upper terminal of the outer margin. It will be noted that the lower end of the plunger 17, adjacent the reduced shank 26 is enlarged, as indicated at 28, whereby upward movement in the casing 15 is limited, since the enlargement 28 will contact with the lower terminal of the casing 15.

The keeper-plate 21 is provided on its inner face with a longitudinally extending recess 29 therein, which is adapted to receive a portion of the rearward face of the casing 15 therein, said rearward face having a portion thereof removed to provide an elongated recess 30, the portion of the casing 15, at the opposite terminals of the recess 30, providing abutting shoulders for contact with the upper end of the keeper-plate 21, in order to limit the inward and outward movement of the casing 15, in the body 3. A housing 31 comprises a still further part of the nail magazine and is provided therein with a longitudinally extending recess 32, one end of which communicates with a slot 33, the latter being formed in the outer wall of the housing 31. A portion of the inner face of the housing 31 is removed to provide abrupt shoulders 34 and 35, in order to prevent casual displacement of nails 36, which are engaged with the inner face of the housing 31, between the shoulders 34 and 35. It will be noted that the shoulders 35 are of an arcuate configuration, and aline with semi-circular recesses 37 in the casing 15, when said casing is at its lowermost point of movement. The nails are adapted to be singly received in successive order in said semi-circular recesses 37 and to be carried to a point subjacent the hammer head 2, when pressure is released from the lever 12, by the action of the spring 27ª. A follower 38 is movably mounted in the housing 31, beneath the nails 36, so as to normally force the same upwardly into engagement with the arcuate shoulders 35. One end of the follower 38 extends through the slot 33 in the housing 31, while the opposite end thereof is enlarged as indicated at 39, in order to prevent casual displacement of the follower, and at the same time to facilitate guiding of the latter in the recess 32 of the housing 31. A reduced shank 40 depends from the lower face of the enlargement 39, and has encircled thereon a coil-spring 41, the convolution on the upper end of which contacts with the inner face of the enlargement 39 while the convolution on the opposite end abuts the housing 31, at the inner terminal of the recess 32. It will therefore be seen that pressure is normally exerted upon the follower 38, so as to feed the nails 36 into the semi-circular recesses 37 in the casing 15.

Guide strips 41′ are fixedly associated with the opposite sides of the housing 31 and the body 3, the upper terminal thereof being reduced to provide fingers 42 to facilitate feeding of the nails 36 into the semi-circular recess 37, and insuring accurate positioning of the nails in said recesses.

An elastic element 43 is interposed between the handle 1 of the hammer, and the inner face of the nail magazine, one end of said element being fixedly engaged with the handle of the hammer, and the opposite end being flexed into parallelism with said handle-engaging end, and fixedly secured to the magazine. By this medium, the magazine is normally forced outwardly, actuation of the lever 6 causing the magazine to be moved toward the handle 1.

In operation, therefore assuming that the device is in the position as shown in Fig. 1, just as soon as pressure is released from the lever 12, the casing 15 will automatically move into juxtaposition with the hammer head 2, thereby permitting the hammer head to come in contact with the head of the nail which is held in the semi-circular recesses 37 of the casing, when pressure is exerted on the hammer in the usual way. After the nail has been advanced into the work, a sufficient distance to maintain its stability, pressure is again exerted on the lever 12, so as to actuate the magazine toward the handle 1, against the resistance of the elastic element 43. By this operation, the nails 36 will be successively passed into position beneath the hammer head, although the hammer may be used without the contemporaneous use of magazine, since by engaging the lever 6, with the handle 1 in any suitable manner, the magazine will be held from further movement, and the hammer utilized in the usual manner.

It will be understood that the above description and accompanying drawings disclose only the preferred embodiment of my invention and that various minor changes in details of construction, proportion and arrangement of parts may be made within the scope of the appended claims without sacrificing any of the advantages of my invention.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A magazine hammer including, in combination with a hammer head, a nail magazine in connection with said head, mecha-

nism movable in the magazine for successively feeding and singly arranging the nails beneath said head, and means to move the magazine out of operative range of the hammer head, whereby the latter may be used independently of the magazine.

2. A magazine hammer including, in combination with a handle having a hammer head thereon, a nail magazine carried by the hammer and having a member bodily movable thereon to intermittently position the dispensing end thereof within operative range of said head, and means associated with the magazine to automatically place a nail subjacent the hammer head, contemporaneously with disposing the magazine in operative range of the hammer head.

3. In combination with a hammer, a nail magazine associated with the hammer, means to normally force said magazine away from the hammer handle, to permit positioning of the nails beneath the hammer head, and means to operate said magazine against the resistance of the first mentioned means, to permit use of the hammer independently of the magazine.

4. In combination with a hammer, a nail magazine associated with the hammer including a body to receive nails, means to force the nails out of said body, means to singly carry the nails in successive order to a point remote from the body, and means to normally hold the magazine away from the hammer handle, so that said nails may be carried beneath the hammer head.

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

JOSEPH POLACH.

Witnesses:
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F. J. MILLER.