

No. 736,465.

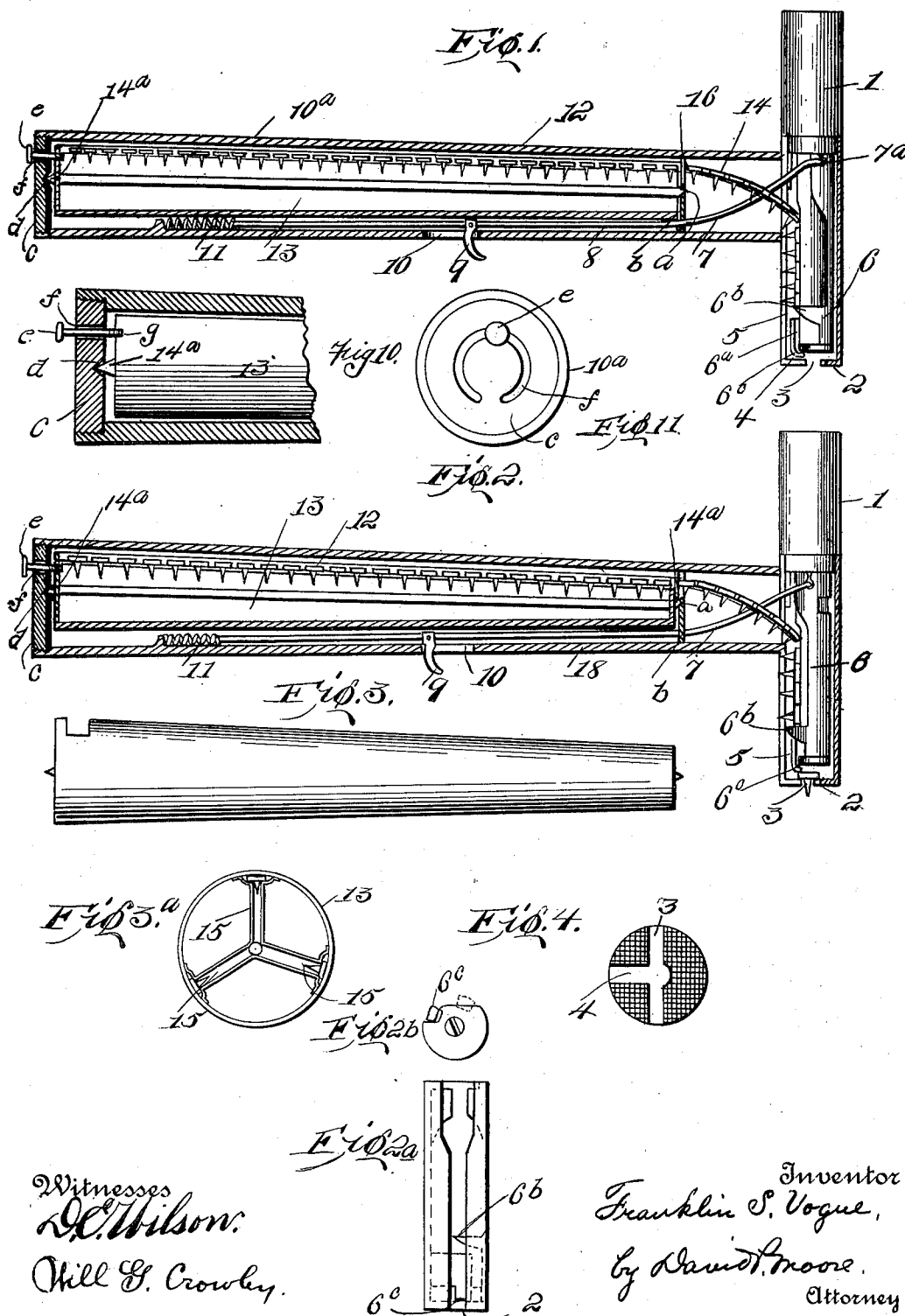
PATENTED AUG. 18, 1903.

F. S. VOGUE.
MAGAZINE HAMMER OR HATCHET.

APPLICATION FILED JAN. 27, 1903.

NO MODEL.

..2 SHEETS--SHEET 1.

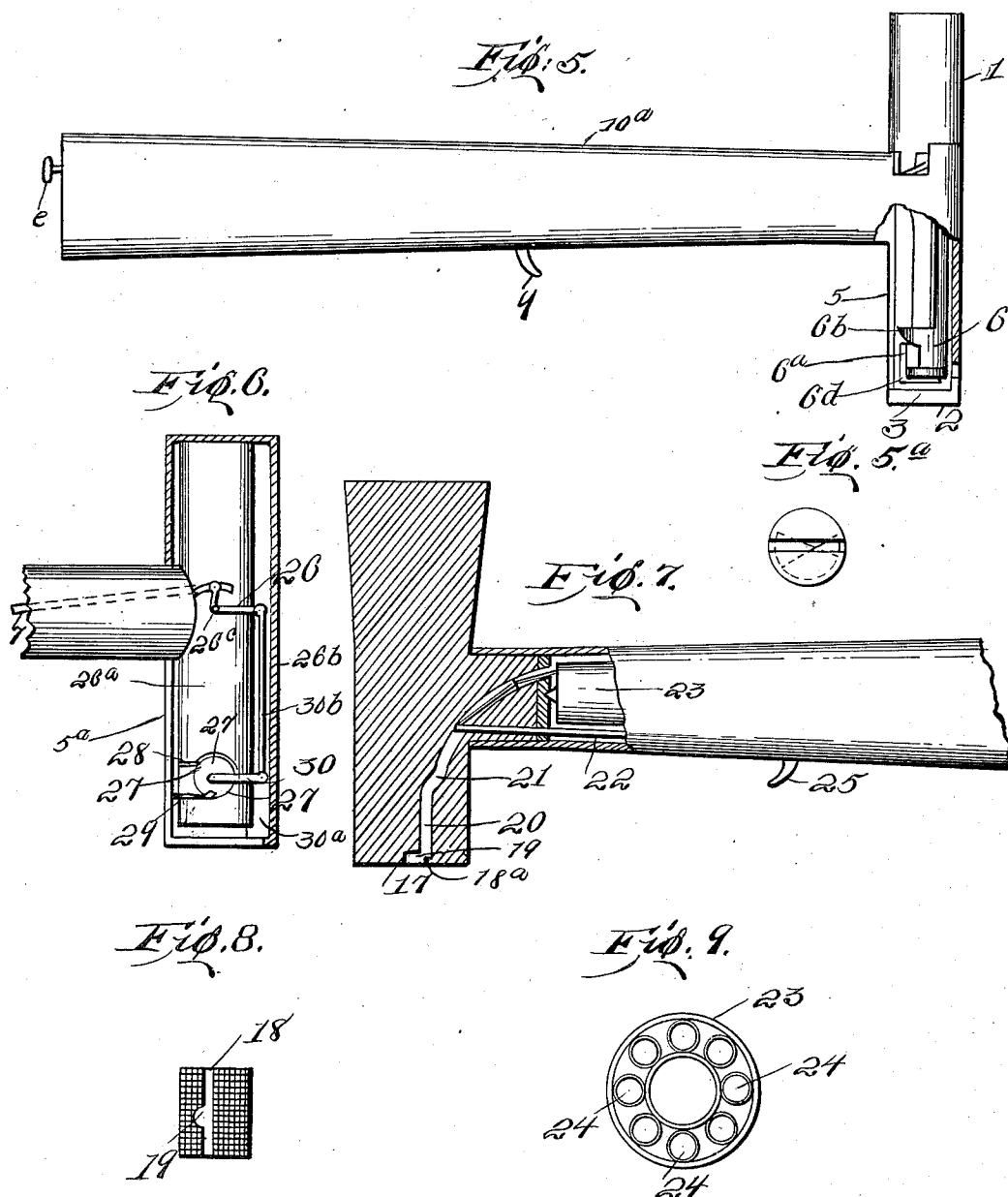


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UNITED STATES PATENT OFFICE.

FRANKLIN S. VOGUE, OF KEOKUK, IOWA.

MAGAZINE HAMMER OR HATCHET.

SPECIFICATION forming part of Letters Patent No. 736,465, dated August 18, 1903.

Application filed January 27, 1903. Serial No. 140,769. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN S. VOGUE, a citizen of the United States, residing at Keokuk, in the county of Lee and State of Iowa, have invented certain new and useful Improvements in Magazine Hammers or Hatchets, of which the following is a specification.

This invention relates to improvements in hammers and hatchets, and has special reference to an improved magazine hammer or hatchet in which the tacks or nails are held and fed as it is desired to use same.

The main object of my invention is the provision of a hammer which is especially adapted for the use of placarding, lathing, and shingling.

Another object of my invention is the provision of an improved hammer or hatchet embodying novel features of construction and combination of parts, substantially as disclosed herein.

In the accompanying drawings, Figure 1 is a longitudinal sectional view through the hammer with the feeding mechanism in its normal position. Fig. 2 is a similar view with the feeding mechanism in the position it assumes when allowing one tack or nail to fall in the end of the head. Fig. 2^a is a detail view of the regulator end of the head, taken from the inside. Fig. 2^b is an end view of the regulator. Fig. 3 is a side elevation of the tack-magazine. Fig. 3^a is an end elevation thereof, taken from the small end. Fig. 4 is a plan view of the end of the striking portion of the hammer. Fig. 5 is a side view of a modified form of the hammer, the head being in section. Fig. 5^a is an end view of the hammer-head as shown in Fig. 5. Fig. 6 is a section of one end of the hammer, showing a modified form of feeding mechanism. Fig. 7 is another modified form, showing a different form of cut-off or feed. Fig. 8 is an end view of the striking-head of the hammer shown in Fig. 7. Fig. 9 is a cross-section of a modified form of magazine used in connection with the hammer shown in Fig. 7. Fig. 10 is an enlarged sectional view showing the outer end of the handle and magazine and their connections, and Fig. 11 is an end view of the handle.

Referring to the drawings, the numeral 1 designates the head of a hammer or hatchet, which may be either provided with a claw or

cutting edge, as the case may be, and with the striking end 2, which is provided with the cross-slot 3, having a bayonet-slot 4, which will allow the withdrawal of the head of a tack or nail. The striking end of the hammer or hatchet is hollow and is provided upon the inner edge with a groove 5. Pivotally mounted within the hollow head is the tack-feed regulator 6, which has connected therewith a spring-actuated rod 7, which is connected with the top at 7^a of the regulator and extends within the handle 8, so that the trigger 9 passes through the opening 10 in the handle and is readily accessible. Connected to this rod and within the handle 10^a is a coiled spring 11, which normally exerts a forward pressure, so as to prevent the tacks or nails 12 from being fed from the magazine 13 through the conduit 14 in the hammer-head and thence to the striking-head of the hammer. This magazine is circular in cross-section and is provided with a series of grooves or channels 15, which form a series of magazines for the tacks or nails, and this magazine is so mounted by means of pintles 14^a within the handle of the hammer or hatchet as to readily be rotated, so as to bring the mouth of any one of these channels in alinement with the mouth of the curved channel 16 in the head of the hammer or hatchet. The pintles 14^a are adapted to be journaled in the depressions *a* in the inner wall *b* and also in the detachable cap *c* at *d*, as clearly shown in Fig. 10. In order to rotate the magazine, I provide the detachable pin or stud *e*, which is adapted to be projected through the curved slot *f* formed in the cap and secured in the threaded socket *g* in the end of the magazine. The regulator is provided with the projection 6^a, which normally prevents the tacks from falling, but allows the tack to fall when the pointed projection 6^b engages the next tack. A stop 6^c limits the reciprocation of the regulator. In Fig. 5 I employ the same regulator, except that the stop 6^d extends to also assist in guiding the tacks. From this construction it will be seen that by operating the trigger the tacks or nails are fed from the magazine through the curved conduit down to the striking end of the hammer or hatchet and are presented through the slot in the end thereof, so that the end of the feed-regulator will pri-

marily act as a hollow head to drive the tack when the hammer is given a slight twist or is pushed forward, thus releasing the tack from the hammer, so that it can be easily driven into place.

In Fig. 7 I have shown a modified form of my invention in which the striking-head 17 is provided with a slot 18 with the central enlargement 19, which is large enough to allow the withdrawal of the head of the tack or nail by pulling the head backward when the nail is fastened at first, as the stop 18^a, which is one edge of the slot 18, prevents the nail from falling out. Provided in the head of this hammer or hatchet is the tube or conduit 20, which is provided with an offset 21, a spring-actuated rod 22 being employed to allow the feed of the tacks or nails by gravity through said tube and also check the movement forward of the tacks or nails when it is desired. In this form the tack or nail is started point forward or downward, as the case may be, and is placed in a magazine 23, which is provided with a series of circular channels or tubes 24, which are adapted one at a time to be in alinement with the mouth of the tube 20. Thus when the trigger 25 is pulled upon the releasing device allows one tack at a time to fall into place in the striking end of the hammer, when the tack or nail is attached to the desired place and the head withdrawn by pulling the hammer backward, so that the tack can be driven home.

The form of regulator employed in Fig. 6 comprises the auxiliary head 26^a, mounted in the hollow head 26^b, the tacks or nails being adapted to be fed downward through the slot 5^a. In order to check the flow of tacks or nails, I mount in the cylindrical bore 27^a the cylinder or disk 27, which is adapted to be oscillated. To accomplish this oscillation, I connect a crank lever or arm 30 to one end of the disk 27 and in the space 30^a to the connecting-rod 30^b, where its upper end is pivotally connected to the angle-arm or bell-crank lever 26, which is pivotally connected at 26^c to the head 26^a. Connected to the upper free end of the lever 26 is the usual spring-actuated rod 7. Carried by the disk 27 and adapted to be projected one at a time, so as to block the conduit 5^a and check the flow of tacks or nails and also allow only one to be fed to the end of the head, are the pins 28 and 29. Normally this pin 29 is across the slot 5^a, and when it is desired to feed the tacks or nails the rod 7 is operated to cause the disk to oscillate, pulling the pin 29 inward and projecting pin 28, which blocks the conduit 5^a and checks the flow of tacks or nails, there being only space enough between the pins 28 and 29 to accommodate one tack at a time, so that when the rod 7 is released the pin 28 is withdrawn and pin 29 projects to block the conduit 5^a.

From the foregoing description, taken in connection with the drawings, it is evident that I provide a simple and durable, while also

inexpensive, construction of magazine-hammer and one which is efficient and practical in use.

What I claim as new is—

1. In a magazine implement, comprising a hollow handle, a head at right angles thereto and provided with a single channel there-through, a magazine provided with a series of channels removably and rotatably mounted within the handle and adapted to have one of its channels in alinement with the channel of the head, and means connected to the magazine whereby the magazine may be rotated within the handle.

2. A magazine-hammer, comprising a hollow handle, a head at right angles thereto carried thereby and provided with a conduit therein, a magazine removably and revolvably mounted within the hollow handle, means whereby the magazine may be rotated within the handle, and mechanism for feeding the tacks or nails from the magazine to the head.

3. A magazine hammer or hatchet, comprising a hollow handle, a head provided with a curved channel in communication with the hollow handle, a magazine provided with a series of receptacles revolvably mounted within the magazine and adapted to have one of its receptacles in line with the channel of the head, means whereby the magazine may be rotated within the handle, and mechanism for feeding the tacks and nails forward from the magazine through the head.

4. A magazine-hammer, comprising a hollow handle, a head provided with a conduit therethrough, a magazine provided with a series of circumferential channels revolvably mounted in the hollow handle so as to have one of the channels in line with the channel of the head, means whereby the magazine may be rotated within the handle, and mechanism for feeding the tacks or nails from the magazine through the head.

5. A magazine hammer or hatchet, comprising a handle, a head provided with a channel in communication with the handle, a magazine removably and revolvably mounted within the handle, means detachably connected to the magazine whereby the magazine may be rotated within the handle, and mechanism for feeding tacks or nails from the magazine through the head.

6. A magazine hammer or hatchet, comprising a handle, a head provided with a channel in communication with the handle, a magazine removably and revolvably mounted within the handle, means whereby the magazine may be rotated within the handle, and a spring-actuated rod mounted within the handle and head and adapted to normally check the flow of tacks or nails but adapted to be pulled upon to allow the tacks or nails to fall to the extreme end of the head's channel.

7. A magazine hammer or hatchet, comprising a hollow handle, a hollow head provided with recess upon one edge and in the striking end, a tack or nail feed regulator

mounted in the head, a magazine mounted in the hollow handle, means whereby the magazine may be rotated within the handle, and mechanism for reciprocating said regulator to allow the tacks or nails to be fed one at a time to the striking end of the head.

8. A magazine hammer or hatchet, comprising a hollow handle, a head at right angles thereto and having a slot in one side of the striking end, a reciprocatingly-mounted feed-regulator in the head, a magazine having a series of receptacle-channels circumferentially arranged so as to have one at a time in alinement with the conduit of the head, said magazine being removably and rotatably mounted in the hollow handle, means whereby the magazine may be rotated so that one of the channels at a time is caused to align with the slot of the head connected to the magazine, and means for operating the regulator so that only one tack or nail at a time is presented at the striking end of the head.

9. A magazine hammer or hatchet, comprising a hollow handle, a coil-spring mounted in the handle, a head provided with a conduit leading from the hollow handle, and a slot in one side of the striking end, a reciprocatingly-mounted feed-regulator mounted in the head, a magazine having a series of receptacle-channels circumferentially arranged so as to have one channel at a time in alinement with the conduit of the head, said magazine being removably and rotatably mounted in the hollow handle, means whereby the magazine may be rotated so as to present one of the channels at a time to the conduit of the head, and a rod having one end connected to the regulator and the other end connected to the coiled spring within the handle for operating the regulator to cause the tacks or nails to be fed one at a time.

10. A magazine hammer or hatchet, comprising a hollow handle, a removable cap at one end of said handle, a head at substantially right angles to the other end of the handle provided with a conduit in communication with the hollow of the handle, and a magazine having a series of circumferential receptacles revolubly mounted within the hollow of the handle and adapted to have one of its receptacles in line with the conduit of the head.

11. A magazine hammer or hatchet, comprising a hollow handle, a removable cap at one end of said handle, a head at substantially right angles to the other end of the handle provided with a conduit in communication with the hollow of the handle, a magazine having a series of circumferential receptacles revolubly mounted within the hollow of the handle and adapted to have one of its receptacles in line with the conduit of the head, and a journal carried by the magazine and mounted in the removable cap of the handle and the opposite end of the handle.

12. A magazine hammer or hatchet, comprising a hollow handle, a removable cap at one end of said handle, a head at substantially right angles to the other end of the handle provided with a conduit in communication with the hollow of the handle, a magazine having a series of circumferential receptacles revolubly mounted within the hollow of the handle and adapted to have one of its receptacles in line with the conduit of the head, a journal carried by the magazine and mounted in the removable cap of the handle and the opposite end of the handle, a reciprocatingly-mounted feed-regulator carried by the head and adapted to control the flow of tacks from the conduit of the head, and means connected to said regulator and within the hollow handle exterior of the magazine for controlling the regulator.

13. A magazine hammer or hatchet, comprising a hollow handle, a removable cap at one side of said handle, a head at substantially right angles to the other end of the handle provided with a conduit in communication with the hollow of the handle, a magazine having a series of circumferential receptacles revolubly mounted within the hollow of the handle and adapted to have one of its receptacles in line with the conduit of the head, a journal carried by the magazine and mounted in the movable cap of the handle and the opposite end of the handle, a regulator reciprocatingly mounted within the head having a cut-off to prevent the tacks from being fed to the head, a rod connected to the regulator and slidingly mounted within the handle, a spring connected to the rod for normally holding the cut-off in such position, and an oppositely-arranged cut-off within the first-mentioned cut-off of the regulator adapted to separate one tack at a time and allow the same to be fed to the striking end of the head.

14. A magazine hammer or hatchet, comprising a hollow handle with a curved channel in one end thereof, a movable cap secured upon the other end thereof, a striking-head provided with a slot mounted upon the other end of the handle, and having the slot in communication with the conduit of the handle, a substantially cylindrical magazine provided with a series of circumferential tack-receptacles movably mounted within the handle, journals upon the ends of said magazine mounted in the cap and the extreme inner wall of the hollow handle, and means for feeding the tacks one at a time from said magazine to the striking end of the head.

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

FRANKLIN S. VOGUE.

Witnesses:

L. A. O'HARRA,
E. L. O'HARRA.