

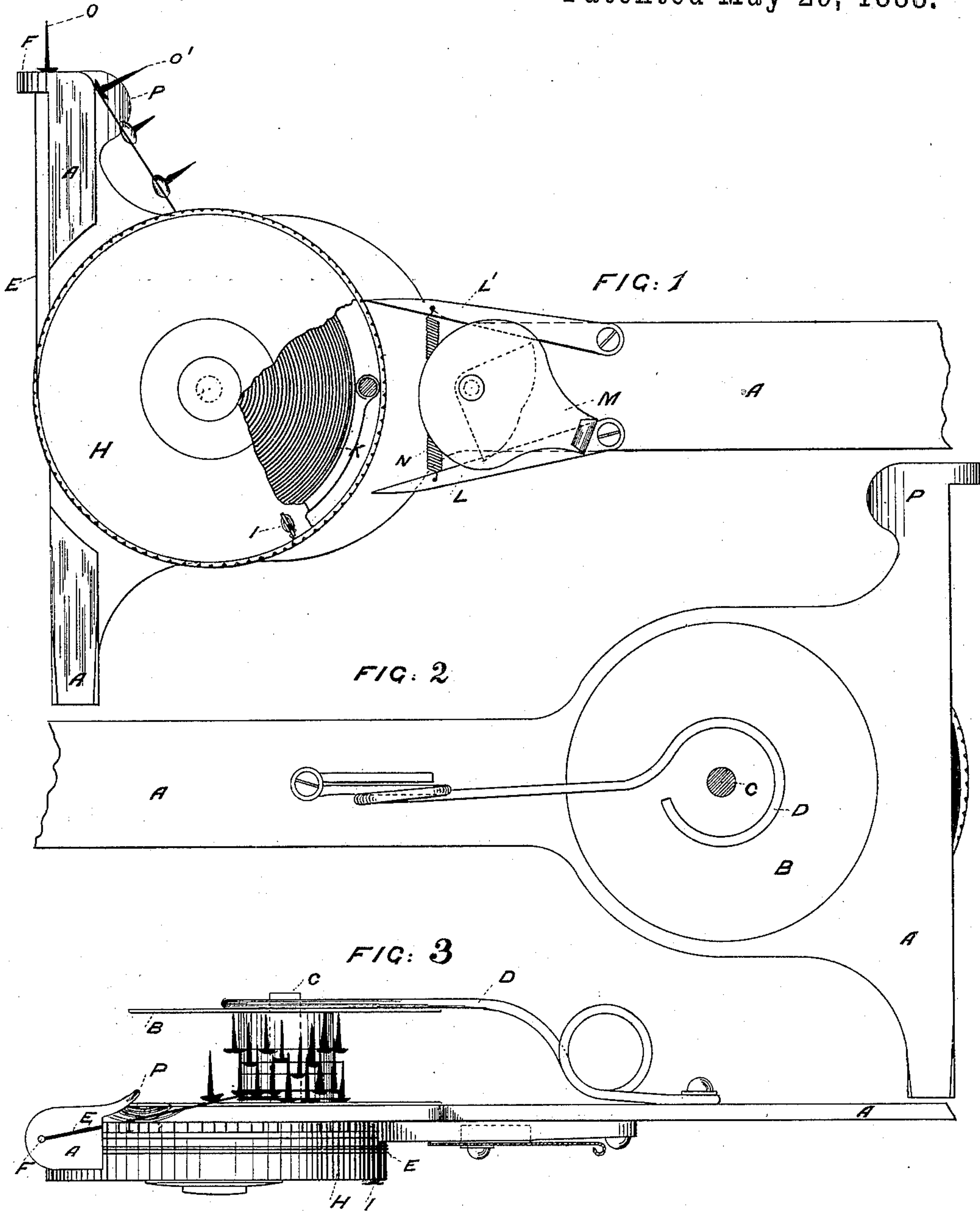
(No Model.)

J. H. MONTGOMERY.

AUTOMATIC TACK DRIVER.

No. 383,478.

Patented May 29, 1888.



WITNESSES:

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JAMES H. MONTGOMERY, OF DENVER, COLORADO.

AUTOMATIC TACK-DRIVER.

SPECIFICATION forming part of Letters Patent No. 383,478, dated May 29, 1888.

Application filed June 14, 1886. Serial No. 205,185. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. MONTGOMERY, a citizen of the United States, residing at Denver, in the county of Arapahoe and State of Colorado, have invented a new and useful Automatic Tack-Hammer, of which the following is a specification.

My invention relates to improvements in automatic tack-hammers; and the objects of my improvements are, first, to provide a hammer adapted to receive and support a series of tacks soldered to a continuous wire and drive them as they are separately and successively fed forward, as hereinafter set forth; second, to provide a tack-driver which will carry a spool on which is wound a wire having tacks soldered along one of its sides, and also having a device for automatically unwinding said wire and bringing the heads of the tacks under the face of the driver, which is so constructed as to facilitate in feeding the tacks from the spool to be driven. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view. Fig. 2 is the opposite side, and Fig. 3 is a perspective showing one face of the hammer.

Similar letters refer to similar parts throughout the several views.

A is the hammer proper, upon which the automatic machinery is secured.

B is the spool, carrying the wire and tacks, which revolves upon the post C, and is held in position by spring D, which also acts as a tension to prevent too rapid unwinding of the wire of tacks. After the spool B is placed upon the post C, which is accomplished by raising the spring D, the end of the wire E is threaded through the eye F in the face of the hammer A, carried forward, and fastened to the reel H at I, the spring K in the reel H having been previously wound up.

The spring K is prevented from unwinding by the dog L. After the wire E has been fastened at I the dog L is relieved from the ratchets upon the reel H by moving the lever M, which allows the spring N to act upon the dog

L', bringing it into position in the ratchets on the reel H, thus relieving the spring K, which actuates the reel, thereby winding up the end or used portion of the wire E and bringing the tack O under the face of the hammer A, the tack O remaining in that position until driven upon, when the connection between the tack and wire is broken by the act of driving, when the spring will draw the next tack, O', into position for driving, and so on until the spool of tacks is exhausted. The spool of tacks having been exhausted, the dog L is thrown into the ratchets upon the reel H by lever M. The operator removes the spool B from the spool-post C and draws the wire off of reel H, and this operation rewinds the spring K.

The guard P serves the purpose of straightening the tacks, ready to be drawn under the face of the hammer. The dog L, when in connection with the ratchet, prevents reaction of the spring K while the tack is being driven.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In an automatic tack-driver, the hammer A, provided with an eye in its face, or its equivalent, substantially as shown and described, and for the purposes set forth.

2. In an automatic tack-driver, the combination, with the means for feeding and driving the nails, of the reel actuated by a spring, all substantially as shown and described.

3. The dogs L and L', the spring N, and the lever M, in combination with the ratchet and reel, substantially as shown and described, and for the purpose set forth.

4. In an automatic tack-driver, the spring D and spool-post C, in combination with the tack holding and feeding devices, substantially as shown and described, and for the purpose set forth.

5. In an automatic tack driving and feeding device, the hammer A, provided with the guard P, substantially as shown and described.

JAMES H. MONTGOMERY.

Witnesses:

E. R. HANLEY,
W. D. PEIRCE.