J. A. BLAKE.

Machine for Checking Gun-Stocks.

No. 165,404. Patented July 13, 1875.

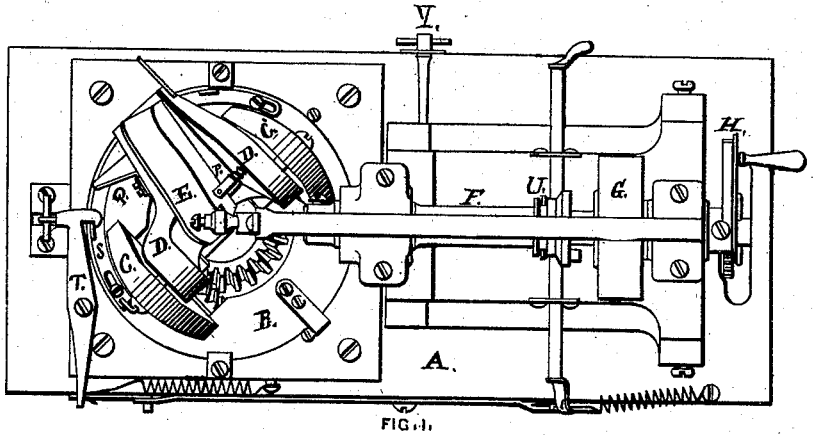

FIG. 1.

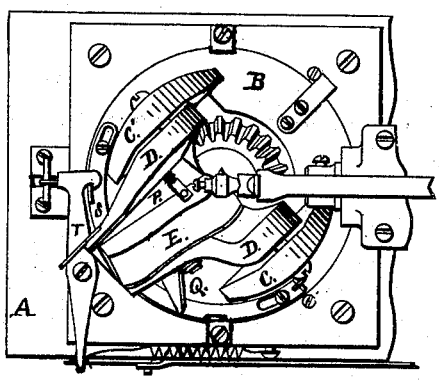

FIG. 2.

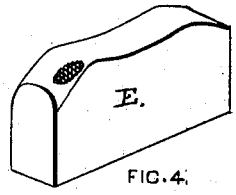

FIG. 4.

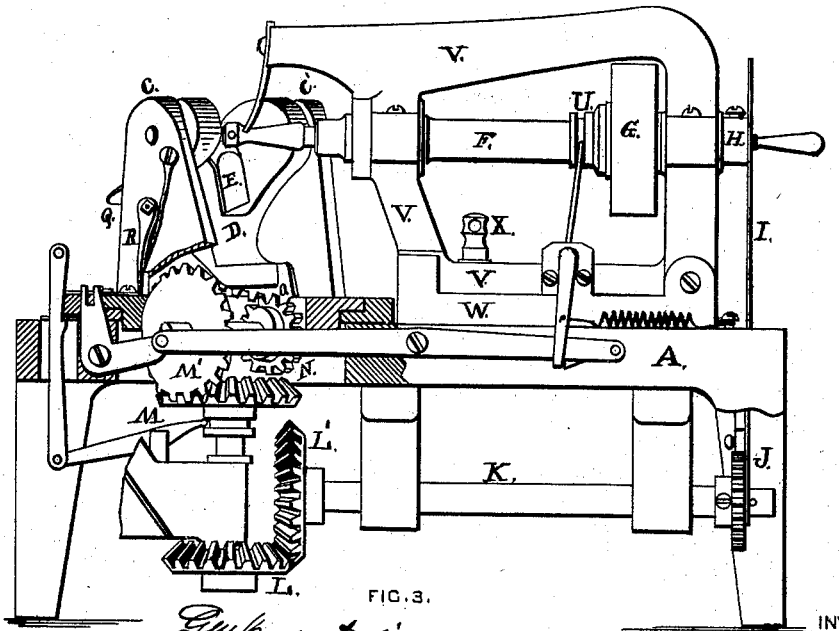

FIG. 3.

WITNESSES.

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JOSIAH A. BLAKE, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN MACHINES FOR CHECKING GUN-STOCKS.

Specification forming part of Letters Patent No. **165,404**, dated July 13, 1875; application filed June 9, 1875.

To all whom it may concern:

Be it known that I, JOSIAH A. BLAKE, of Providence, in the State of Rhode Island, have invented a new and useful Machine for Checking Gun-Stocks; and I do hereby declare that the following specification, taken in connection with the drawing making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a top view of the machine. Fig. 2 is a cross-section of same, showing the lever-plate reversed. Fig. 3 is a side view of the machine, with a portion of the frame removed, showing the feed mechanism. Fig. 4 is a view of a receiver.

My invention, while easily adjusted or adapted to other similar purposes, is more especially designed for checking that portion of a rifle-stock which is concaved to receive the thumb of the right hand, commonly called the "receiver;" and consists in the mechanism for such purpose hereinafter described.

Upon a suitable bed or table, A, is a turn-plate, B, having two perpendicular posts, C and C′, which support the swing D, within which the receiver E is placed, and firmly secured by a set-screw. F is a shaft which receives a rotary movement from the pulley G, and is provided at one end with the cutting-tool, while it terminates at the other in a crank, H, which operates the feed through the reciprocating lever I, the ratchet J, the shaft K, the miter-wheels L L′ and M M′, and the pinion N, working in a curved rack, O, which is attached to the side of the swing D.

The operation of my machine, the swing D having been set at the extreme of its outward movement, as shown in Figs. 1 and 3, and the receiver E placed therein and firmly secured by the set-screw P, is as follows: Motion being imparted to the shaft F the cutting-tool attached at the end cuts a groove in the concave surface at each rotation, and at each rotation the swing D is carried forward by the feeding mechanism before mentioned the distance necessary to present the receiver to the successive strokes of the cutter until the desired surface has been entirely cut. At the last stroke of the cutter the adjustable finger Q upon the swing D strikes the inner arm of the lever R, which moves the semicircular slide S a sufficient distance to release the lever I, which is connected with and releases, by suitable mechanism, the miter-wheel M, and the clutch U, thus suddenly stopping the machine at the appointed time. The turn-plate B is now reversed, as shown in Fig. 2, the swing D having been pushed back to its original starting-place, and the miter-wheel M and the clutch U thrown into gear, when the same cutting operation is repeated, with the exception that the grooves made by the cutting-tool, by reason of the change in the position of the turn-plate, will run across those made at the first operation. The frame V, which holds the tool-shaft F, is hinged at the back end to the plate W, which is in turn pivoted to the main bed or table A, so that the cutting-tool may be easily and nicely adjusted to its work by the set-screw X, which raises or lowers, as occasion may require, and the set-screw Y, which moves it horizontally.

I have not particularly described the shipping mechanism, which releases at the proper moment the miter-wheel and clutch, for the reason that the particular arrangement and construction thereof are not essential so long as the result is obtained, which result might be accomplished by different combinations of levers and springs, as the taste or ingenuity of the builder might dictate.

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

1. The turn-plate B, having perpendicular posts C and C′, supporting a swing, D, the whole arranged and operating substantially as described, for the purpose of holding and presenting the receiver to the action of the cutting-tool.

2. The adjustable tool-shaft F operating in combination with the turn-plate B and swing D, the whole constructed and arranged in the manner substantially as described.

3. The feeding mechanism, consisting of the crank H, reciprocating lever I, ratchet J, shaft K, miter-wheels M M′ and L L′, pinion N, or its equivalent, in combination with the rack O, and swing D, and shaft F, the whole constructed and operating in the manner substantially as described, for the purposes specified.

JOSIAH A. BLAKE.

Witnesses:
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