O. BLUNT.

Muzzle-loading Fire-arm.

No. 6,966. Patented Dec. 25, 1849.

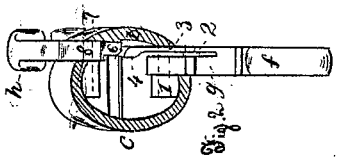

Fig. 2.

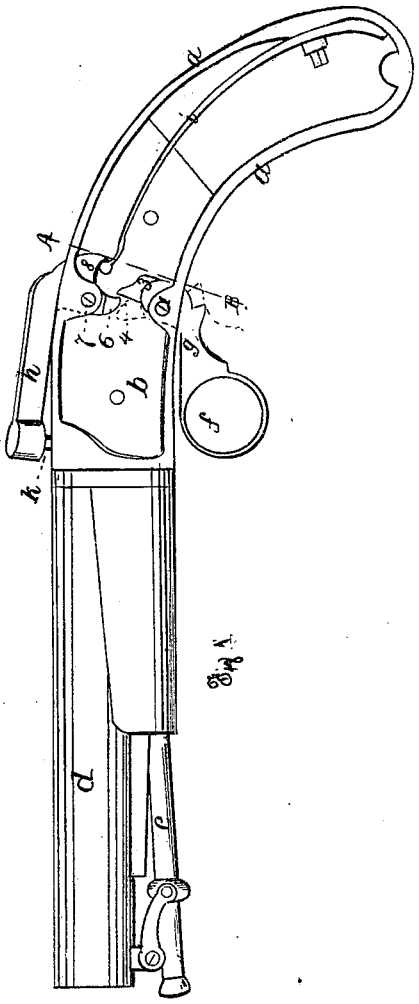

Fig. 1.

Witnesses

W. Serrell

Samuel W. Sewell

UNITED STATES PATENT OFFICE.

ORISON BLUNT, OF NEW YORK, N. Y.

IMPROVED LOCK FOR FIRE-ARMS.

Specification forming part of Letters Patent No. **6,966,** dated December 25, 1849.

To all whom it may concern:

Be it known that I, ORISON BLUNT, of the city and State of New York, gunsmith and manufacturer, have invented, made, and applied to use certain new and useful Improvements in the Construction of Locks for Fire-Arms, such improvements reducing the number of acting parts and simplifying their arrangement in a manner for which I seek Letters Patent of the United States; and I do hereby declare that the said improvements are fully and substantially set forth and shown in the following description, and in the drawings annexed to and making part of this specification, wherein—

Figure 1 is a side elevation, with one side plate of the stock removed to show the position of the interior and acting parts. Fig. 2 is a section at and near the line A B of Fig. 1, and the like letters and numbers, as marks of reference, apply to the same parts in each figure.

a is the hollow metal stock; *b*, the cavity containing the moving parts. *c* is the detachable side plate. *d* is the barrel of a pistol, and *e* the ramrod, all made and shown as usual for an arm of this size and make. *f* is the trigger, set on a center, 1, by a knuckle-arm, *g*, within the stock. This arm *g* is shown in Fig. 2 as divided vertically into two unequal parts by a cut, forming a slot, 2, that is prolonged downward through the joint and into the part between the joint and ring *f* of the trigger, so as to leave a side piece, 3, that is continued above the end of the arm *g*, so as to form a sear, showing, when seen sidewise, as in Fig. 1, a point, 4, but when seen from behind, as in Fig. 2, showing the back portion beveled, as at 5. When thus made, the parts are to be tempered to make the sear 3 a spring, commencing from the lower part of the slot 2, so that the sear will move laterally, or across to the left of the parts, by any easy pressure, but return to the vertical position when the pressure is removed, the hole in the center 1 being slightly enlarged to allow of this vibration. The hammer *h* is mounted on a center, 7, fitted for the head to strike the nipple *k*, and made with part of the tumbler 8 overlying the moving end of the mainspring *i*. All these parts of and connected with the hammer *h* are shown, and may be made in this or any usual or convenient manner so far. At 6 the tumbler 8 has a projecting point below the center to take the point 4 of the spring-sear 3, and before this point is beveled to the right of the instrument counter to but formed to act fair with the bevel behind the point of the sear. When thus made and adjusted for use, the operation and effect are as follows: The parts being at rest, as shown by the full lines, Fig. 1, on pulling back the trigger *f* the sear 3 carries the point 6 on the tumbler 8 past the line of centers, when the two disengage, the mainspring throws the hammer to the nipple *k* and discharges the piece, and the parts assume the position shown by dotted lines in Fig. 1, the point 4 of the sear 3 being beyond the point 6 of the tumbler 8. On reversing the trigger to the position shown in the full lines, the beveled side 5 of the sear 3 comes against the bevel on the point 6, and the sear, yielding laterally by its spring-temper, passes the point 6, and as soon as the two are clear the point 4 on the sear 3 takes its place behind the point 6 on the tumbler, as shown by full lines, and the lock is again ready for another and successive discharges, the whole of the movements being effected by the sear and tumbler without any intervening parts. These parts are shown in the drawings as about the proper size when applied to an ordinary pistol, though I do not mean to confine myself to either the size or proportions or to any special application of the parts that are used, but to apply and use them in any kind or description of fire-arms in which they can be conveniently or advantageously employed.

What I claim as new and of my own invention, and desire to secure by Letters Patent of the United States, is—

The mode described of forming the sear 3 as a lateral spring, with a bevel on the part next the tumbler, and the mode of forming the projection 6 on the tumbler 8 with a similar bevel, so that these two parts operate together to discharge the fire-arm by the direct pull of the trigger, and place the parts in a situation to effect a second or successive discharges by the reverse motion of the trigger, the whole of these movements and effects being produced by the sear and tumbler, without any intervening parts, substantially in the manner described and shown.

In witness whereof I have hereunto subscribed my name, in the city of New York, this 11th day December, 1849.

ORISON BLUNT.

Witnesses:

WM. SERRELL,

LEMUEL W. SERRELL.