

J. D. S. NEWELL.

Breech Loader.

No. 90,381.

Patented May 25, 1869.

Fig: 1.

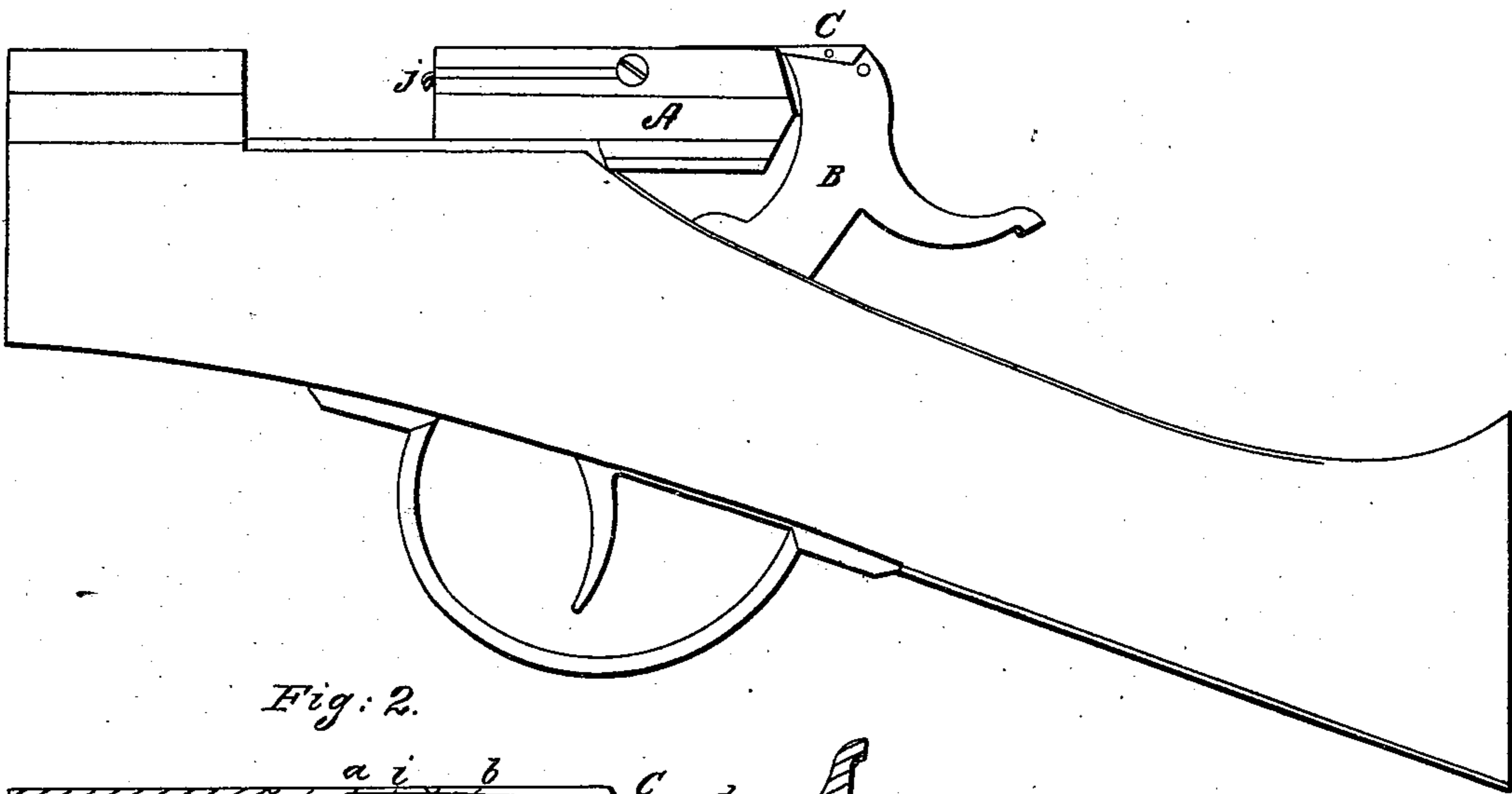
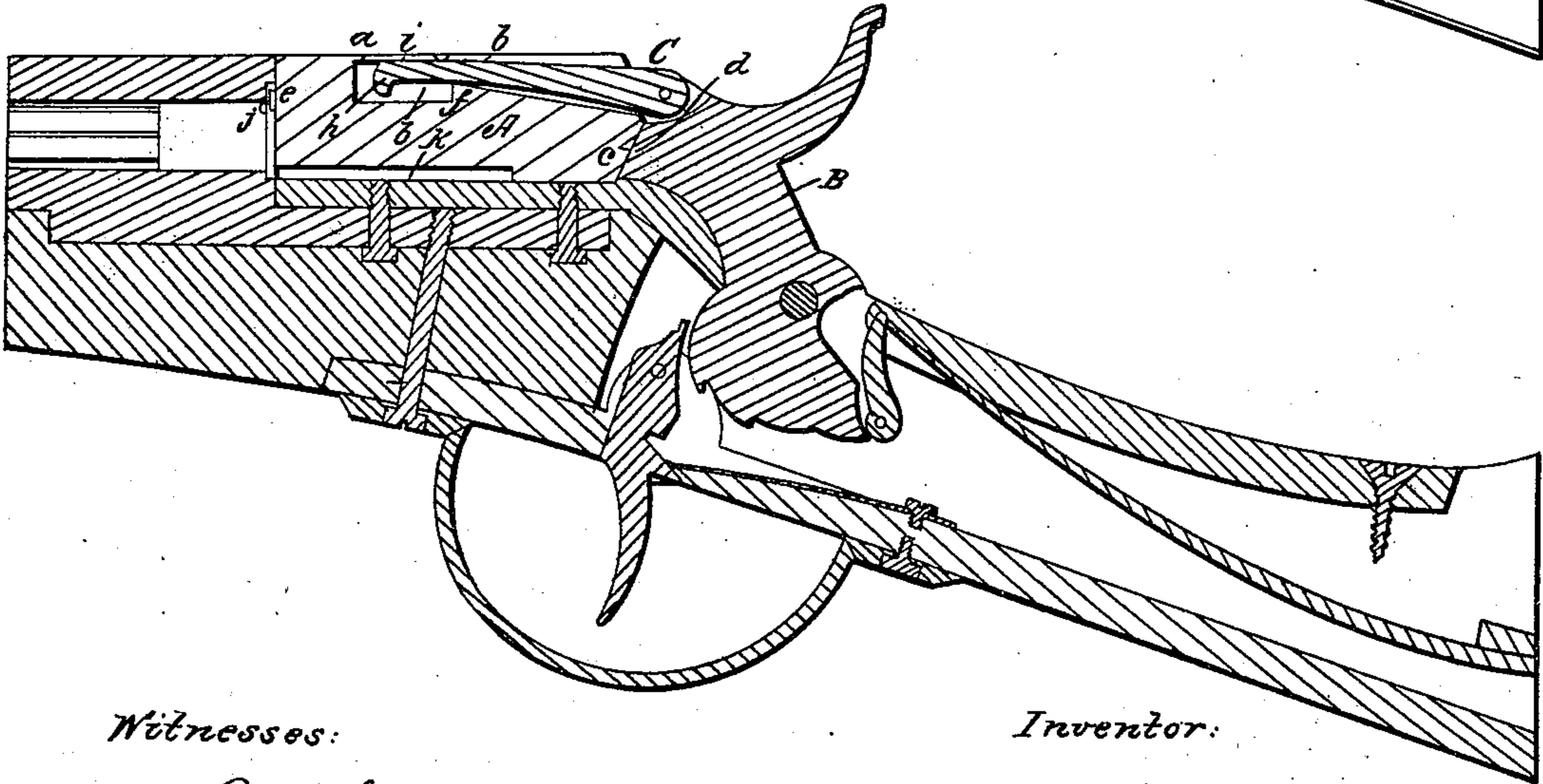


Fig: 2.



Witnesses:

John Quayle
A. Hubbard

Inventor:

J. D. S. Newell
by
Rufus R. Rhoads
his Atty.

United States Patent Office.

J. D. S. NEWELL, OF TENSAS PARISH, ASSIGNOR TO HIMSELF, A. G. BRICE, E. TOMATIS,
AND THOMAS PICKLES, OF NEW ORLEANS, LOUISIANA.

Letters Patent No. 90,381, dated May 25, 1869.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, J. D. S. NEWELL, of the parish of Tensas, and State of Louisiana, have invented a certain new and useful Improvement in Breech-Loading Fire-Arms; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawing, making a part of this specification, in which—

Figure 1 is a perspective view of my improvement when all the parts are united, a part of the barrel, however, being unseen; and

Figure 2, a sectional view, the bisection being through the centre of the arm, in the direction of its length.

My invention is an improvement upon the improvement to which my application for a patent refers, that was filed December 26, 1868, in the United States Patent Office; and

It consists of a simplification and modification of some of the parts of my said improvement, by which the arm is made more effective in practice.

But my invention will be better understood by reference to the drawing, which clearly exhibits the same in all of its features.

The breech-piece A is made as shown on the drawing, instead of as described in said application, that is to say, I make it solid from the point *a*, or thereabouts, instead of having the longitudinal recess *b* extend entirely through it, as in my first improvement.

I moreover dispense with the angular projections at the rear end of the breech-piece that locks or holds it in close contact with the rear end of the barrel, by means of a notch in the hammer, and accomplish the same end through the agency of the angle *c*, at its rear end, and a reverse angle, *d*, on the front of the hammer, as shown.

Dispensing, also, with a movable needle, I fire the arm by means of a small wedge-shaped projection, *e*, on the front end of the breech-piece, and thus avoid all danger of unlocking the same by the violent recoil of the needle-bar from the explosion of the charge.

The breech-piece is mounted and moves backward and forward precisely as it does in my first improvement, except that it is actuated in going forward by the direct contact of the lower jaw of hammer B.

To provide for this, the bar C is pivoted to the

hammer, which may articulate at the point shown, or higher up, so as to reduce the angle between it and the breech-piece.

This bar terminates in a hook, *h*, and works in the recess *b*, which, as in my first improvement, presents a vertical shoulder at *f*, against which the hook takes as the hammer B is drawn back, and thus carries the breech-piece back also, and opens the rear end of the barrel for the insertion of a new cartridge.

The plate *i*, which may be secured in its place by the duffer-tail edges, as shown, or by screws, prevents the bar C from getting out of the recess *b*.

In my first improvement, the ignition of the charge was effected almost entirely through the force communicated to the needle-bar by the main spring of the lock. In my present arrangement, I use the momentum of the breech-piece as well as the force of the main-spring, and am hence enabled to reduce the strength of the said spring to a very considerable degree.

The empty cartridge is withdrawn by spring-hooks *j*, and thrown out by a knob, *k*, as in my first arrangement, and indeed, in all other respects, my present improvement is substantially identical with my first, as the same is described in the application for a patent, to which I have referred as having been filed in the United States Patent Office, on the 26th of December, 1868.

Having thus described my invention,

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

The breech-piece A, when the same is solid at its front extremity, and provided with the wedge-like projection, *e*, on its front, and the angle *c* at its rear end, and actuated by direct contact with the jaw of hammer, and the removable plate *i*, when the same is combined with the hammer B, and is actuated thereby, by means of the hooked bar C, and is locked, at the moment of the explosion of the charge, by the action of the angle *d* against the angle *c*, as herein set forth.

J. D. S. NEWELL.

Witnesses:

C. Y. NICHOL,
JOHN GORDON.