P. J. J. NOELL.

Breech Loading Fire Arm.

No. 85,120. Patented Dec. 22, 1868.

Fig. 1

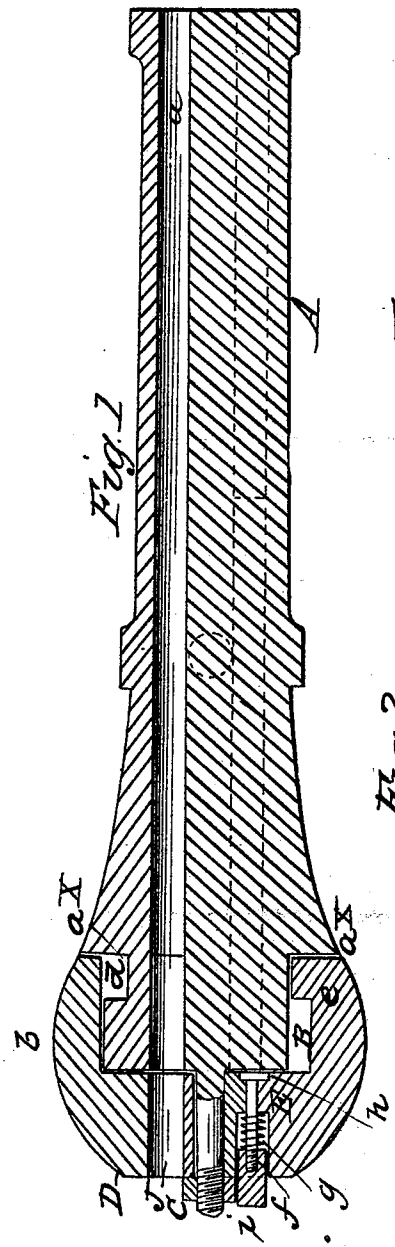


Fig. 3

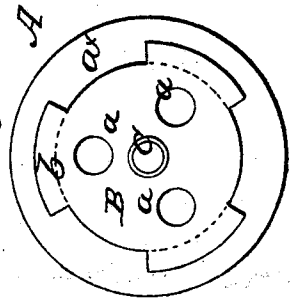
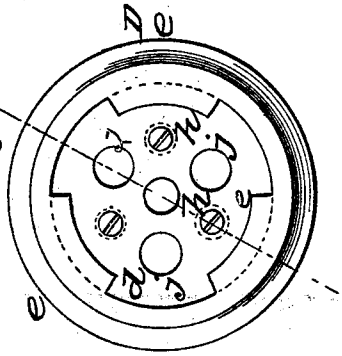


Fig. 2



WITNESSES

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UNITED STATES PATENT OFFICE.

PIERRE JULES JACOB NOËL, OF PARIS, FRANCE.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. **85,120**, dated December 22, 1868.

To all whom it may concern:

Be it known that I, PIERRE JULES JACOB NOËL, of Paris, in the Empire of France, have invented a new and useful Improvement in Breech-Loading Ordnance; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a longitudinal central section of my invention. Fig. 2 is an inner end view of the breech, detached from the main portion of the gun. Fig. 3 is an end view of the rear main portion of the gun.

Similar letters of reference indicate like parts.

This invention relates to a new and useful improvement in breech-loading ordnance of the revolving-breech class, whereby a plurality of shots may be fired simultaneously, if desired, or successively, with sighting intervals when accuracy of range is required.

In the accompanying sheet of drawings, A represents the body or main portion of the gun, which may be of slightly conical form and has a series of holes, *a*, bored entirely through it, said holes, of which there may be three or more, being in a circle concentric with the axis of the body A. (See Fig. 3.) The rear part of the body A is provided with a cylindrical part, B, which is turned true and is somewhat smaller in diameter than the adjoining part of A, to leave a shoulder, $a^{\times}$, all around the end of B, and the cylindrical part B has three lugs or ears, *b*, which are at equal distances apart and of equal dimensions, the spaces between the lugs or ears being equal in width to the lugs or ears.

From the center of the rear end of the main portion A of the gun a fixed rod, C, projects in line with the axis of the gun. On this rod C the breach D is fitted and retained by a nut, *c*, as shown in Fig. 1. This breech has a chamber, *d*, in its front part to fit over the cylindrical part B of A, and at the front part of *d* there are three lugs or ears, *e*, which are equal in width to the spaces between the lugs or ears *b* on B, so that in adjusting the breach to the gun the lugs or ears *e* of the breech may pass between the lugs or ears *b* of the cylindrical part B of the body A of the gun and in front of the lugs or ears *b*, the lugs or ears *b* and *e* forming a firm fastening and enabling the breech to effectually resist any recoil to which it may be subjected.

The breech D has a series of holes, *f*, bored in it, corresponding in number to the holes *a* in the body or main portion A of the gun, and in these holes *f* percussion-pins E are fitted, one in each. Each pin has a spiral spring, *g*, around it, and the outer ends of the pins are provided with heads *h*, which fit in proper cavities in the breech, the springs *g* having a tendency to keep the heads in said cavities. The outer parts of the holes *f* are made considerably larger in diameter than the inner parts, in order to receive the springs *g* and heads *i* on the outer ends of the pins E, as shown clearly in Fig. 1.

Between the holes *f* there are bored holes *j*, which correspond in diameter and number with the holes *a* in the body A of the gun.

The cartridges are inserted into the gun through the holes *j* in the breech, the latter being turned or adjusted so that the holes *j a* will coincide or be in line with each other. The breech D is then turned so that the percussion-pins E will be brought in line with the holes *a* in the body or main portion, A, and the gun is ready for firing or use, the lug or ears *e* of the breech being directly in front of the lugs or ears *b* of the cylindrical part B of the body A, when the gun is thus ready for use, and the breech is thereby rendered fully competent to stand any recoil to which it may be subjected.

I would remark that the holes *a* may be smooth or rifled and that any proper mechanism may be employed for striking the pins E to explode the cartridges, and that all the cartridges may be exploded simultaneously or successively, the latter being done in cases where accurate firing is required, and most generally at long range, when it is necessary to sight the gun after each discharge.

I would further remark that the gun is mounted on a suitable carriage and that the rotating breech D may be turned and retained

in place during the time of firing by any proper mechanism.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The recessed breech-block D, having the lugs *d*, arranged upon its interior, adapted to interlock with the lugs *e*, arranged upon the reduced portion *b* of the body A of the gun, as herein described, for the purpose specified.

J. NOËL.

Witnesses:
DEMOS,
A. GUION.