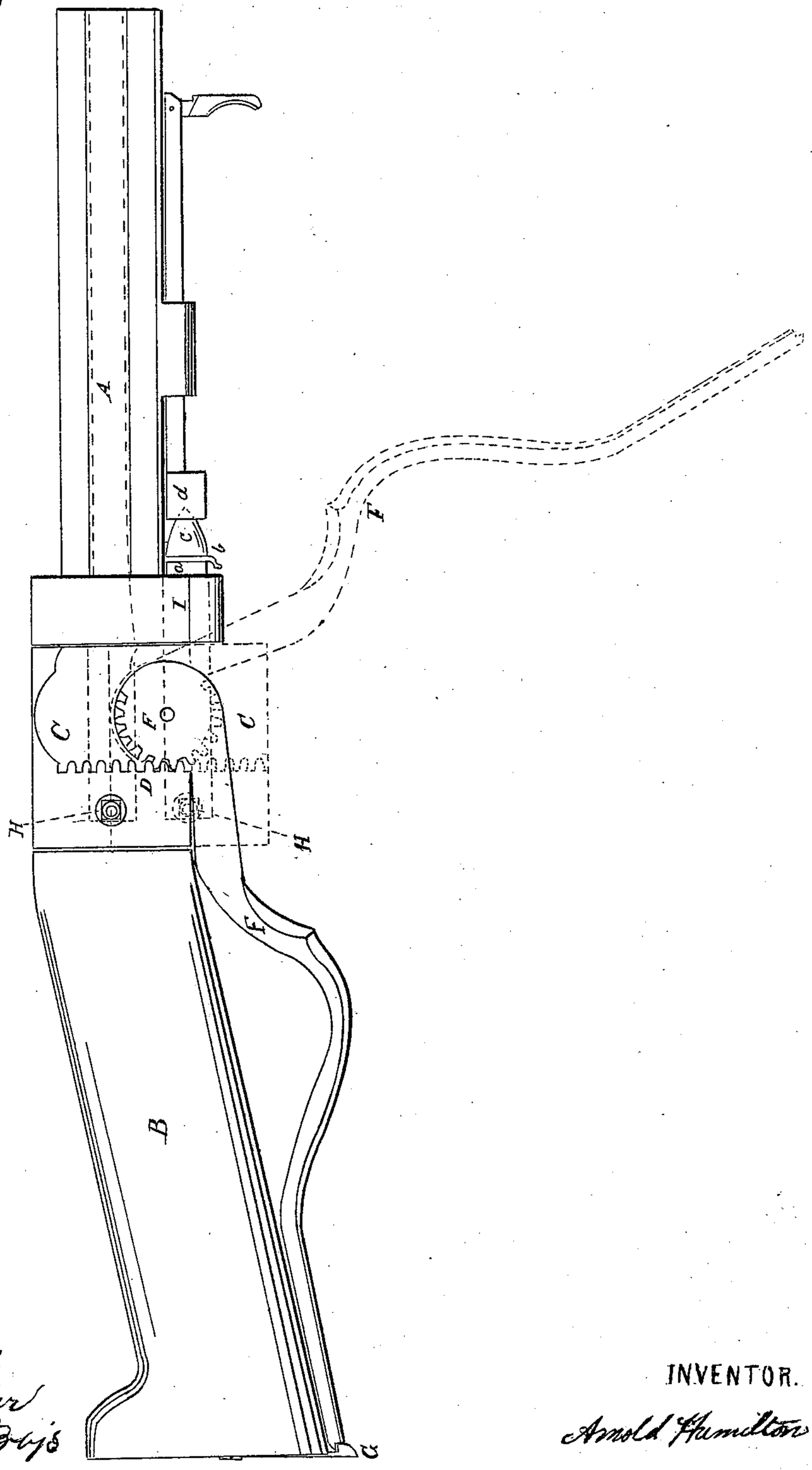
A. HAMILTON.

Breech-Loading Fire-Arm.

No. { 2,765. / 33,769. }

Patented Nov. 19. 1861.



WITNESSES:

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ARNOLD HAMILTON, OF BROAD BROOK, CONNECTICUT.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. **33,769**, dated November 19, 1861.

To all whom it may concern:

Be it known that I, ARNOLD HAMILTON, of Broad Brook, county of Hartford, and State of Connecticut, have invented a certain new and useful Improvement in Fire-Arms; and I do hereby declare that the same is described and represented in the following specification and drawings, and to enable others skilled in the art to make and use my said improvement, I will proceed to describe its construction and operation, referring to the drawings, in which the same letters indicate like parts in each of the figures.

The nature of this invention consists in the combination and arrangement of the sliding charge-chamber with the conical-shaped end of the barrel, and the lever-guard toothed sector for moving down the slide-chamber to receive the charge, and to move it back into exact line with the barrel-chamber, and to hold it firmly in its proper position while being discharged.

The object of this invention is to produce a good and safe fire-arm, that may be easily and quickly loaded with powder, patch, and ball, which will receive (by proper mechanism secured to the "arm") a suitable pressure into the chamber for the purpose of producing greater efficiency in point of distance, accuracy, &c.

In the accompanying drawings, A is the barrel; B, a portion of the stock. C is the sliding chamber. D is a rack made on or secured thereto. E is a toothed sector. F is a lever and trigger guard. G is a spring-catch secured to the stock, for holding the guard F close to it. H is a percussion-cap nipple secured into the side of the sliding chamber C. *a* shows the powder-charge, *b* the patch, and *c* the ball. *d* is the rammer, by the use of which the powder, patch, and ball (or charge consisting of the three) are pressed into the sliding chamber C. The slide or charge chamber C is fitted into a properly-formed breech, secured to the back end of the barrel, so as to move closely and freely up and down therein by means of a rack, D, (secured to the side of said chamber,) and the sector E and lever-guard F. The said chamber C (by the action of the lever F) is lowered, so as to bring its hollow cylinder into a line with the charger I, formed in the breech just at the under side of the barrel, and into which the charge or cartridge *a b c* is placed, and which is pushed into the slide-chamber C by the action of the rammer *d*, said rammer being secured in a sliding position on the under side of the barrel and in a line with the charger I, after which, by lifting the guard-lever F up against the stock B, and securing the end thereof by the catch G, the chamber C, with its charge or cartridge, is brought into a direct line with the chamber of the barrel, and is held in that position firmly by the peculiar formation of the lever F, and its taking a firm bearing against the under side of the stock.

It is distinctly noticeable that the diameter of the slide-chamber is larger than the bore of the barrel, and that the rear end of the barrel, next to the slide-chamber, is made conical shape, so as to adapt it to the slide-chamber. Thus it will be distinctly seen that with a sliding chamber having a larger bore than the barrel a charge or cartridge consisting of powder, patch, and ball may be easily and readily introduced into the breech of the gun or fire-arm, to which it may be attached, thereby securing a perfect compression of the ball to the bore and rifle of the gun or other arm, and, together with the use of a patch, is secured a greater amount of force and accuracy with the least amount of powder.

I believe I have thus shown the mode of construction and operation thereof, so as to enable a person skilled to make and use the same.

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

The combination and arrangement of the sliding charge-chamber C with the conical-shaped chamber of the barrel A (at its breech) and the lever-toothed sector F E, substantially as and for the purpose described.

In witness whereof I have hereunto set my hand this 12th day of June, 1861.

ARNOLD HAMILTON.

Witnesses:
E. W. FOWLER,
JEREMY W. BLISS.