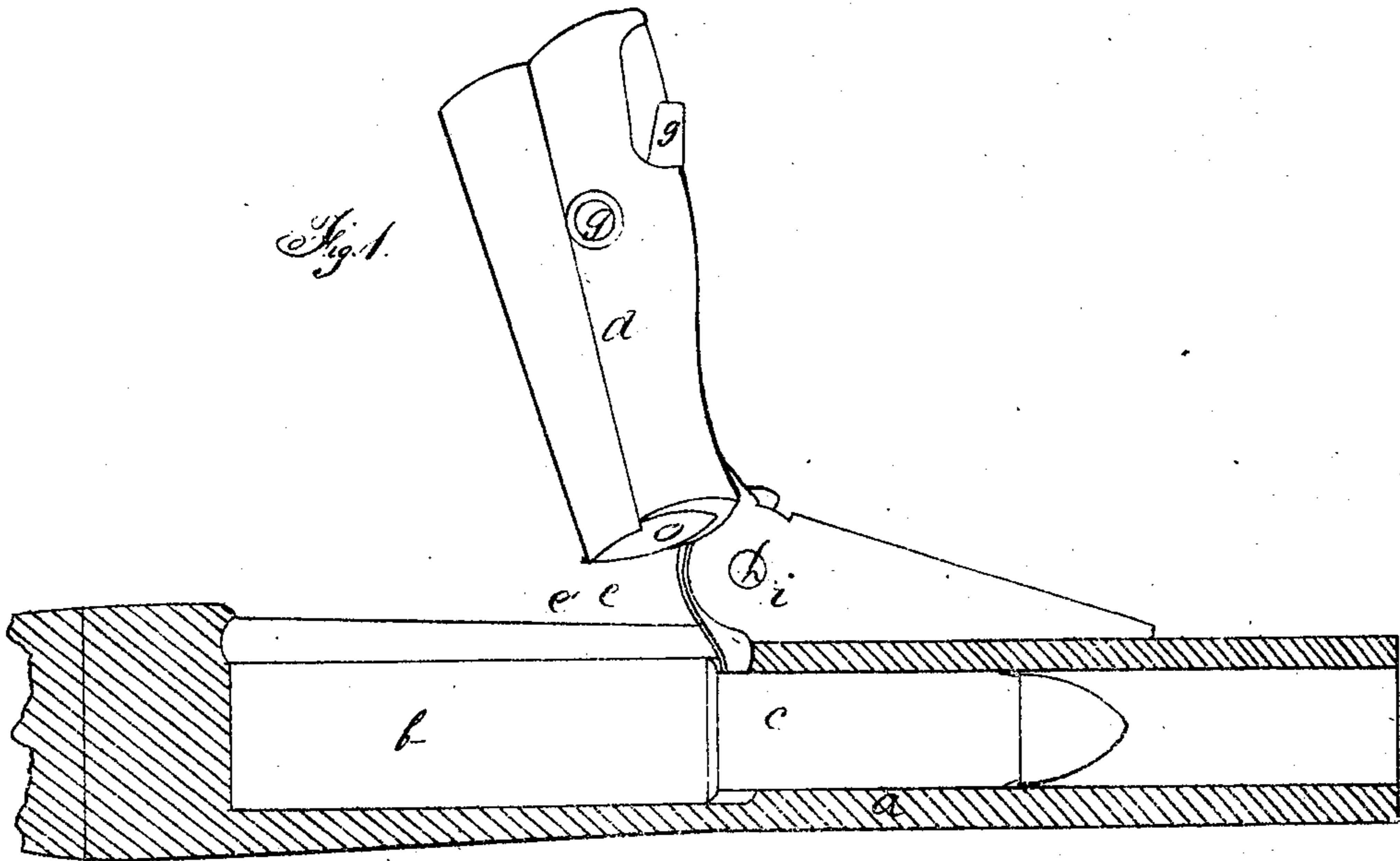
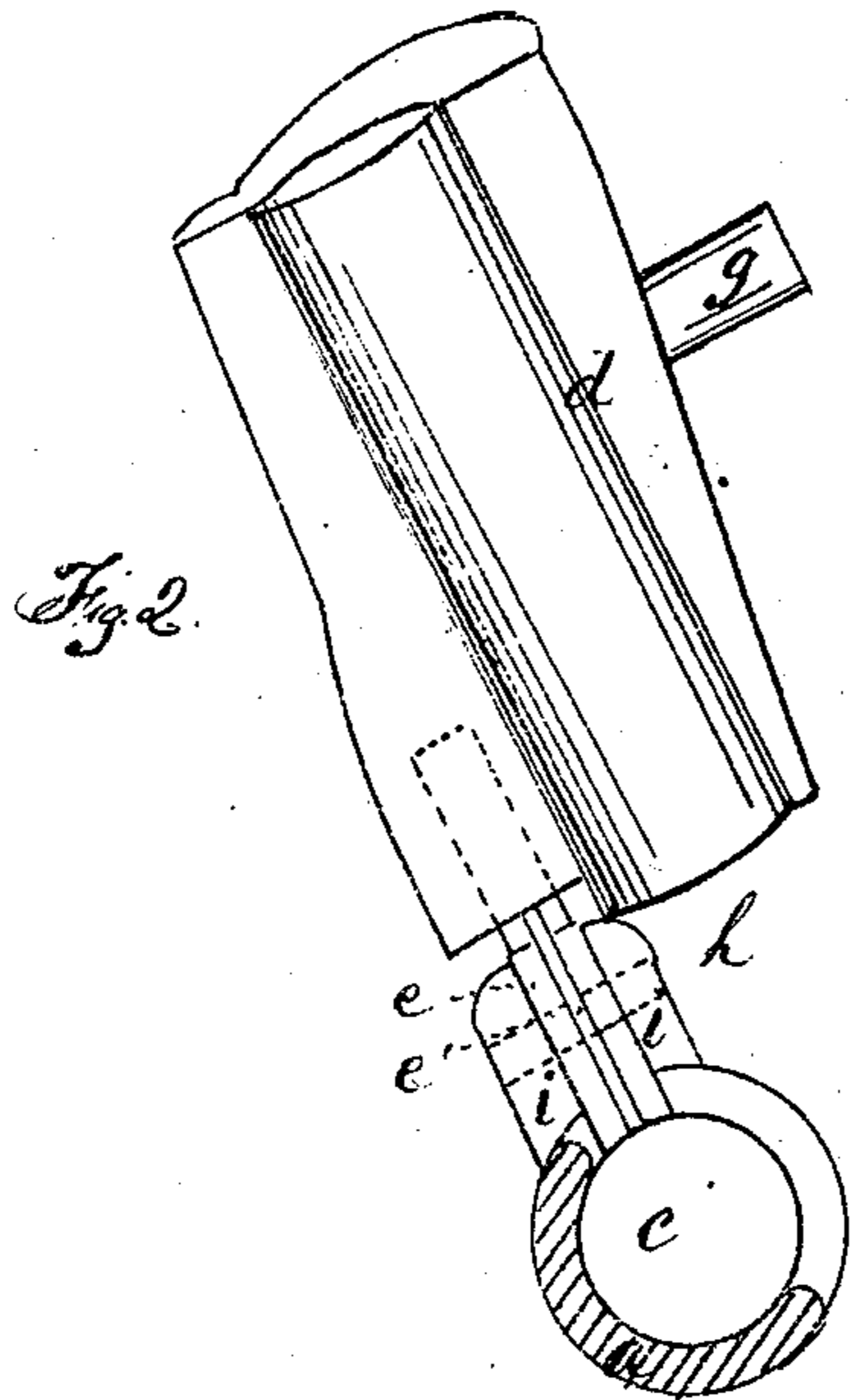


W. Morgenstern.

Breech-Loading Fire-Arm.

N^o 72526

Patented Dec. 24, 1867.



Witnesses
A. H. Ashway
L. W. Meek

Inventor
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United States Patent Office.

WILLIAM MORGENSTERN, OF HARTFORD, CONNECTICUT, ASSIGNOR TO
HIMSELF AND CHARLES HEROLD.

Letters Patent No. 72,526, dated December 24, 1867.

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, WILLIAM MORGENSTERN, of the city and county of Hartford, and State of Connecticut, have invented certain new and useful Improvements in Fire-Arms; and to enable others skilled in the art to make and use the same, I will proceed to describe, by referring to the drawings, in which the same letters indicate like parts in each of the figures.

The nature of this invention consists of a double-motion pin-and-socket-hinged breech-piece, whereby said breech-piece is first turned about a quarter turn, then lifted into about a horizontal position, or at right-angle position with a centre line of the barrel, when the chamber will be open to receive the cartridge.

It also further consists of a fulcrum-pin spring-extractor, for the purpose of holding the breech-piece, and of extracting the shell or cartridge from the barrel, by the action of said breech-pin.

It also further consists in arranging the firing-pin in said breech-piece so that it will always be in readiness for firing when said breech-piece is returned to its seat. In the accompanying drawings—

Figure 1 is a side view, partly in section, showing the barrel, having a cartridge inserted, with the spring-extractor acting against the flange thereof, to remove it from the barrel by the act of turning out the breech-piece into the chamber into which the breech-piece is turned when closed up.

Figure 2 is a cross-section of the barrel, cut through the fulcrum-pin upon which the breech-piece joint is formed, having said breech-piece attached thereto.

a is the barrel of the arm; *b* is the chamber formed at the breech of the barrel, which is closed up by the breech-piece after the insertion of the cartridge; *c* is a metal-flange cartridge; *d* is a double-acting breech-piece; *e* is an extractor hinge-piece and oscillating pin; *e'* is a spring secured to said extractor; *f* is a firing-pin; *g* is an actuating thumb-piece; *h* is a fulcrum-pin, which secures the extractor, &c., *e*, into the joint *i*.

Now, it will be clearly seen that when this breech-piece *d* is partially turned out of its chamber, and then turned upward, as shown in fig. 1, the cartridge *c* can be easily inserted, so that its flange will be against the lower end of the extractor or spring *e'*; and while in this position the breech-piece *d* is turned down, and rotated back into its seat, compressing the cartridge firmly into the breech of the barrel, when it will be in readiness to be fired in the usual way; and after having been fired, by turning out and up the breech-piece *d*, the extractor will start the shell, and the spring *e'* will throw it backward loosely in the chamber *b*.

Thus it will be seen that when the whole mechanism is put in good artistic working order, the charges can be easily and rapidly inserted, discharged, and the shell extracted, in quick succession, without the liability of danger or of getting out of order.

I believe I have thus shown the nature, construction, and operation of this invention, so as to enable others skilled in the art to make and use the same therefrom.

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

The double-acting rotating and swinging breech-piece *d*, hung upon the extractor hinge-piece *e*, with the spring *e'*, arranged and operating substantially as described.

WILLIAM MORGENSTERN.

Witnesses:

N. C. WILDER,
JEREMY W. BLISS.