

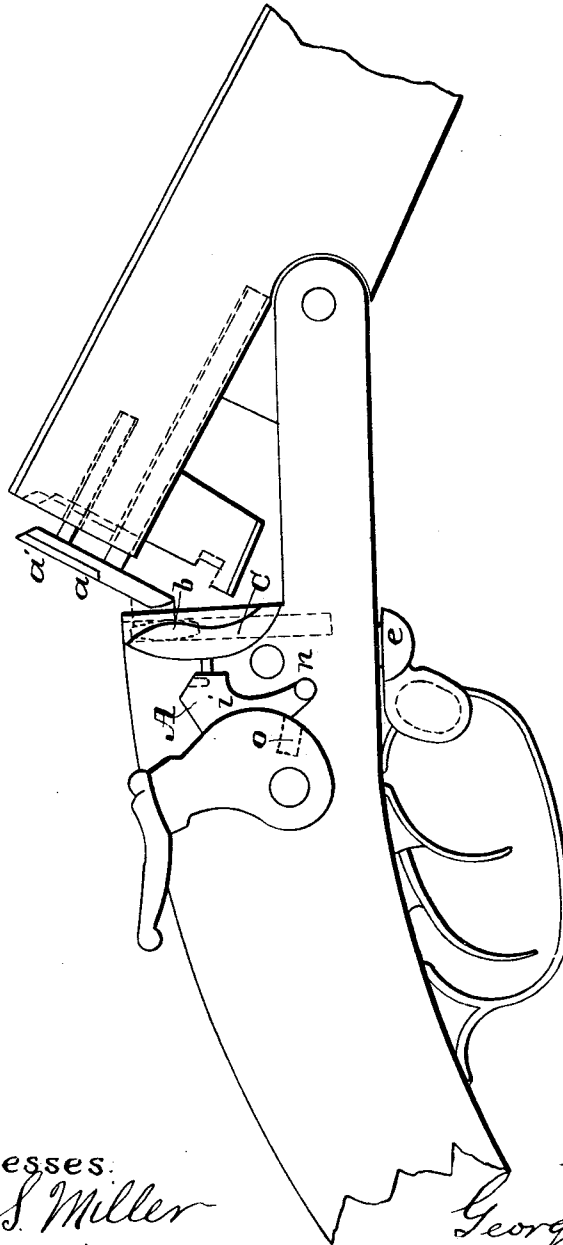
W. R. PAPE.

Breech-Loading Fire-Arm.

No. 84,373.

Patented Nov. 24, 1868.

Fig. 1.



Witnesses:
J. H. S. Miller
J. M. Allen

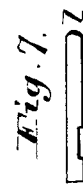
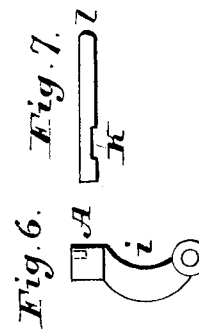
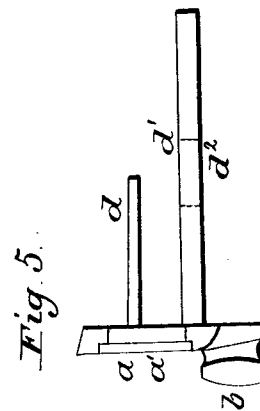
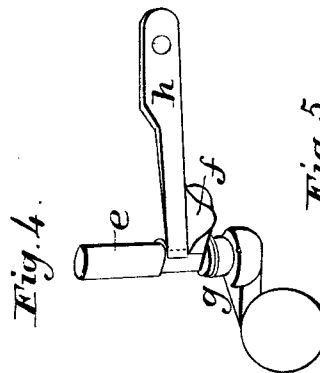
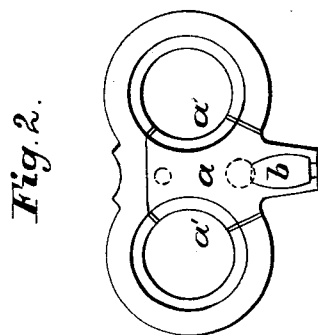
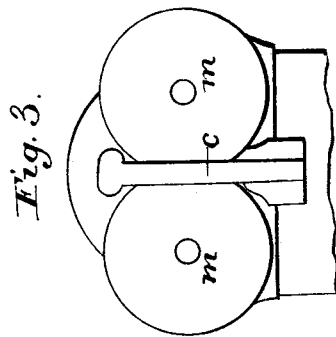
Inventor:
George Cowie
for Wm R. Pape.

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United States Patent Office.

WILLIAM ROCHESTER PAPE, OF NEWCASTLE-UPON-TYNE, ENGLAND.

Letters Patent No. 84,373, dated November 24, 1868.

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 ROCHESTER PAPE, of Newcastle-upon-Tyne, county of Northumberland, England, gun-manufacturer, have invented new and useful Improvements in the Manufacture and Construction of Breech-Loading Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation, showing the breech open and cartridge-extractor drawn out.

Figure 2 is a back view of the breech-ends of the barrels, showing the cartridge-extractor and actuating-flange or bead on the tongue.

Figure 3 shows the end of the false breech or abutment, with the groove in which the beaded tongue works, and the apertures through which the strikers work.

Figure 4 is a detail view of the improved locking-wedge and spring.

Figure 5 is a side elevation of the cartridge-extractor.

Figure 6 is a detailed view of the improved anvil.

Figure 7 shows the form of the plunger and striker.

Like letters, in the different figures of the drawings, represent like parts.

Nature.

My invention relates to that class of fire-arms commonly called "drop-down guns," and consists of an improved cartridge-extractor, provided with rebates, guide-rods, and a beaded or flanged tongue, operating in a groove in the abutment, and by which the cartridge-cases are drawn out in the act of opening the breech.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The cartridge-extractor consists of plate *a*, made to fit neatly in a recess formed for that purpose in the breech-ends of the barrels, and is made to correspond in shape with the barrels, and is provided with rebates or rabbets, *a'*, corresponding in shape and size with rabbets in the barrels, and is provided also with a beaded or flanged tongue, *b*, which operates in flange *c*, and with guide-rods, *d d'*, as shown in figs. 2, 3, and 5, of the drawing.

For effecting the locking and unlocking of the barrels, I bore out a cavity in the under side of the body, just in front of the trigger-guard, extending vertically nearly through the centre of the body. In this cavity

I insert shaft *e*, which is provided with one or more projecting curvilinear wedges, *f*, and compensating-screw *g*, and is operated by a lever and spring, *h*.

I construct a steel anvil, *i*, and striker, *l*, with notch *k*, to fit into a notch in the anvil, shown by dotted lines in figs. 1 and 6, at letter A. The anvil is provided with a pin, *n*, which works in a groove, *o*, on under side of the hammer. (See dotted lines, fig. 1.)

Operation.

To unlock the barrels, the lever in front of trigger-guards is pressed forward. The flanges on the cartridges fit in the rabbets *a'* in the extractor, and, in the act of opening the breech, the cartridges are drawn out by means of the extractor, operated by the beaded tongue *b* in groove *c*, instead of being pushed out, as in the ordinary way. The extractor also gives a true vertical motion to the barrels in opening and closing the breech.

The shaft *e* revolves from left to right, giving a rotary motion to the wedge or wedges, while the spring *h* produces a continuous pressure upon the shaft, causing the wedges to bind down the barrel to the body, and compensates for the wear on the slot-surface, or on the wedges themselves, which thicken as they advance further into the slot or slots, and thus will continue to supply the wear on the slots.

The wedges revolve upon the shaft, and are worked by the lever, and thus preserve the same amount of leverage to draw down the barrels after the gun has been worn for years.

The anvil *i* and striker *l* are drawn back by the hammer, by means of the proper notches, as described, or other equivalent means, and the falling of the hammer forces the striker *l* against the cartridge.

Claim

Having thus fully described my invention,

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

The cartridge-extractor *a*, provided with rabbets *a'*, guide-rods *d d'*, and beaded or flanged tongue *b*, substantially as and for the purpose described.

In witness whereof, I, the said WILLIAM ROCHESTER PAPE, have hereunto set my hand and seal, this 7th day of October, 1867.

WILLIAM ROCHESTER PAPE. [L. s.]

Witnesses:

JOHN FLEMING,

Solicitor, Newcastle-on-Tyne,

LIONEL E. BUSH,

Clerk to Mr. Bush, Solicitor, Newcastle-on-Tyne.