

J. MANTON BREECH LOADER.

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PATENTED AUG 1 1871

Fig. 1.

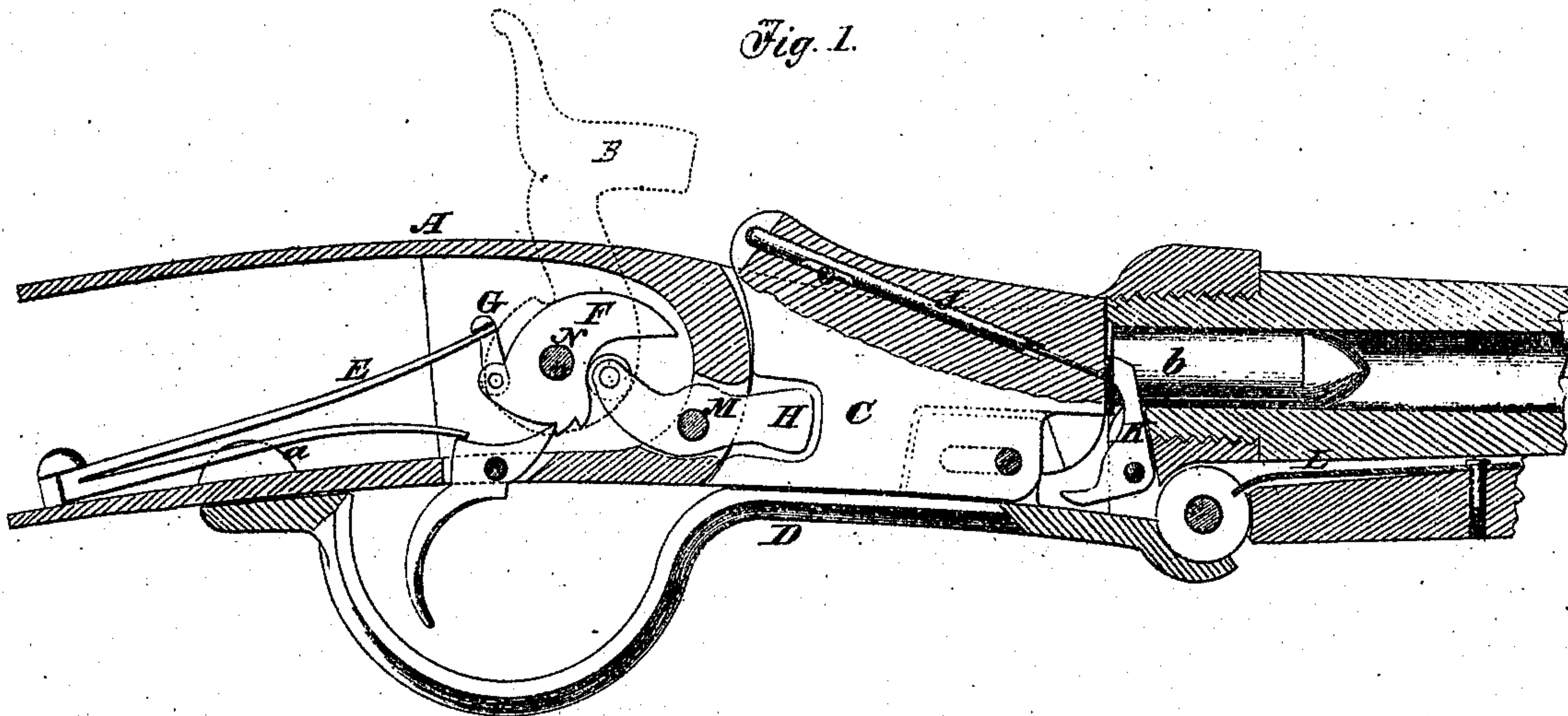
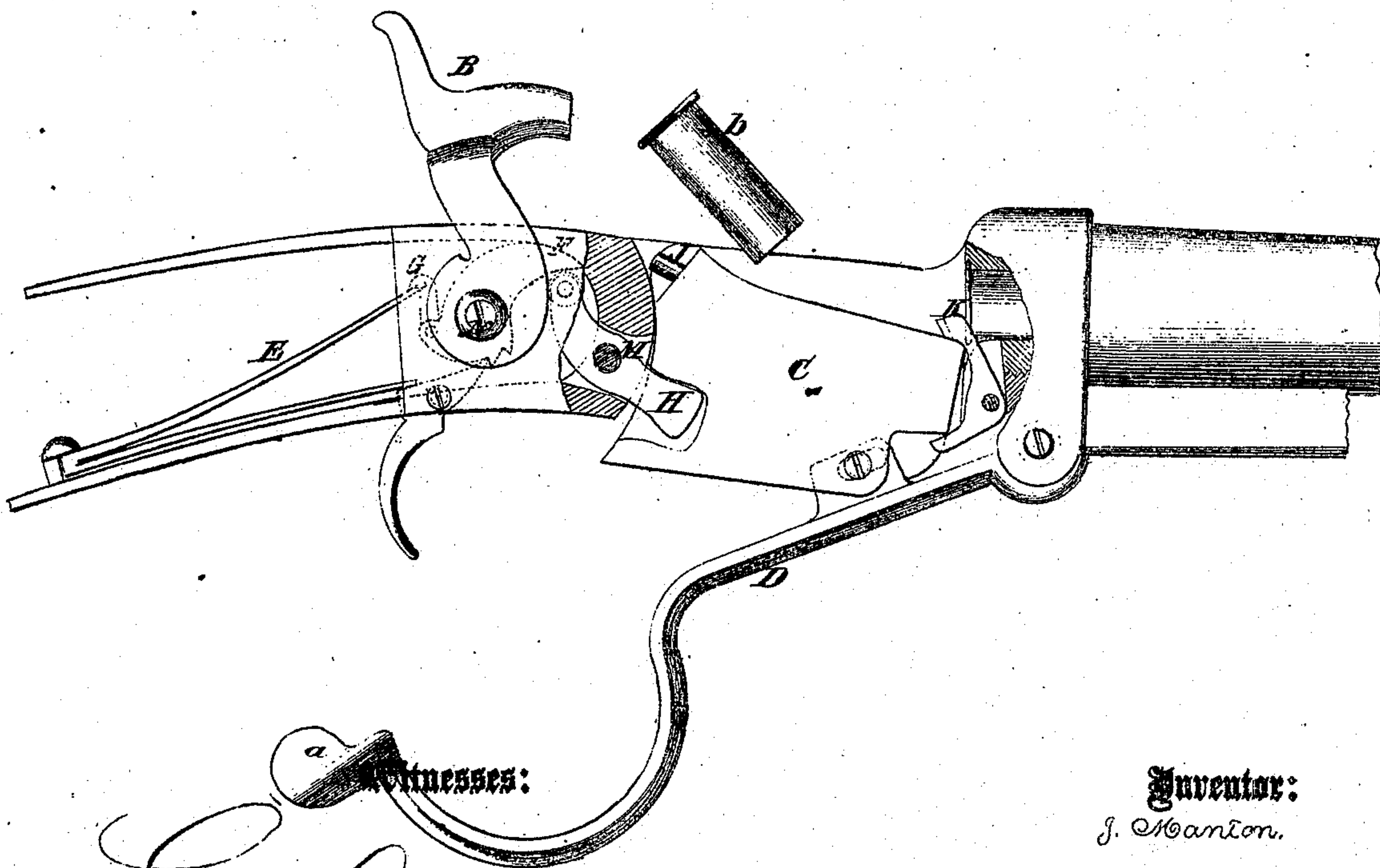


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH MANTON, OF MONTREAL, CANADA.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. 117,552, dated August 1, 1871.

To all whom it may concern:

Be it known that I, JOSEPH MANTON, of Montreal, in the Province of Quebec and Dominion of Canada, have invented a new and Improved Breech-Loading Fire-Arm; 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 drawing forming part of this specification, in which—

Figure 1 is a longitudinal sectional elevation, and Fig. 2 is a longitudinal elevation partly sectioned.

Similar letters of reference indicate corresponding parts.

A in Fig. 2 represents the stock-iron; B, cock or dog-head; C, breech-block; D, lever-guard; E, mainspring; F, tumbler-cam; G, tumbler-swivel; H, cocking-lever; I, trigger; J, piston or striker; K, extracting-lever; L, lever-guard action-spring; M, cocking-lever screw; N, tumbler-pivot screw; O, trigger-pivot screw; *a*, thumb-piece; *b*, cartridge.

The operation of the fire-arm may be described as follows: The breech-block C descends in a vertical slot in the breech, being thus moved by a lever forming the trigger-guard D, which has a downward movement and is put in motion by a thumb-piece, *a*. The breech-block C, in its descent in the slot, carries down one arm of a short lever, H, which works freely in a cavity in the breech-block. The other end of this short lever H in its rise presses upon the tumbler-cam F and forces the dog upward. When the breech-block is at its lowest point the trigger I springs into a notch in the tumbler F and the dog remains fixed at full-cock. The cartridge is inserted in the barrel, over the breech-block, which is then raised by drawing the lever-guard upward. The trigger I being pressed in the ordinary way trips the pointed end out of the notch in the tumbler and the dog-head B descends,

pushed by the mainspring E, which expands and regains its original form, out of which it had been bent and confined by the action of the short lever H, raising the end of the tumbler-cam F. A piston or striker, J, is inclosed in the breech-block; the dog-head in its descent strikes the head of the piston J and drives the point of the piston against the cap at the base of the cartridge *b* and explodes it. The cartridge is extracted in the descent of the breech-block by an angled extractor, *k*, one arm of which is caught by the descending breech-block and the other arm forced against the rim of the cartridge, ejecting it rearward. The arrangement of the cam E and lever H with the hammer admits of raising the hammer to half or full-cock at the option of the operator. It also admits of raising the hammer by hand and letting it fall independently of the breech-block. When the hammer is at full-cock the breech-block may be worked independently of it.

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

1. In combination with cock B and recessed breech-block C, the lever H and tumbler-cam F, arranged, as described, between them, so that the descent of the breech-block raises the hammer, in the manner specified.

2. The arrangement of the breech-block, lever H, cam F, and hammer, whereby the hammer, being operated by them, is yet capable of working independently of the breech-block for putting it at half-cock, or full-cock, or falling at option, and whereby said breech-block may be worked independently of the hammer when cocked, all substantially as specified.

3. The combination, with the frame, of the lever-guard D, constructed as described, whereby the mortise through the frame is closed and all dirt excluded, substantially as set forth.

Witnesses:

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