

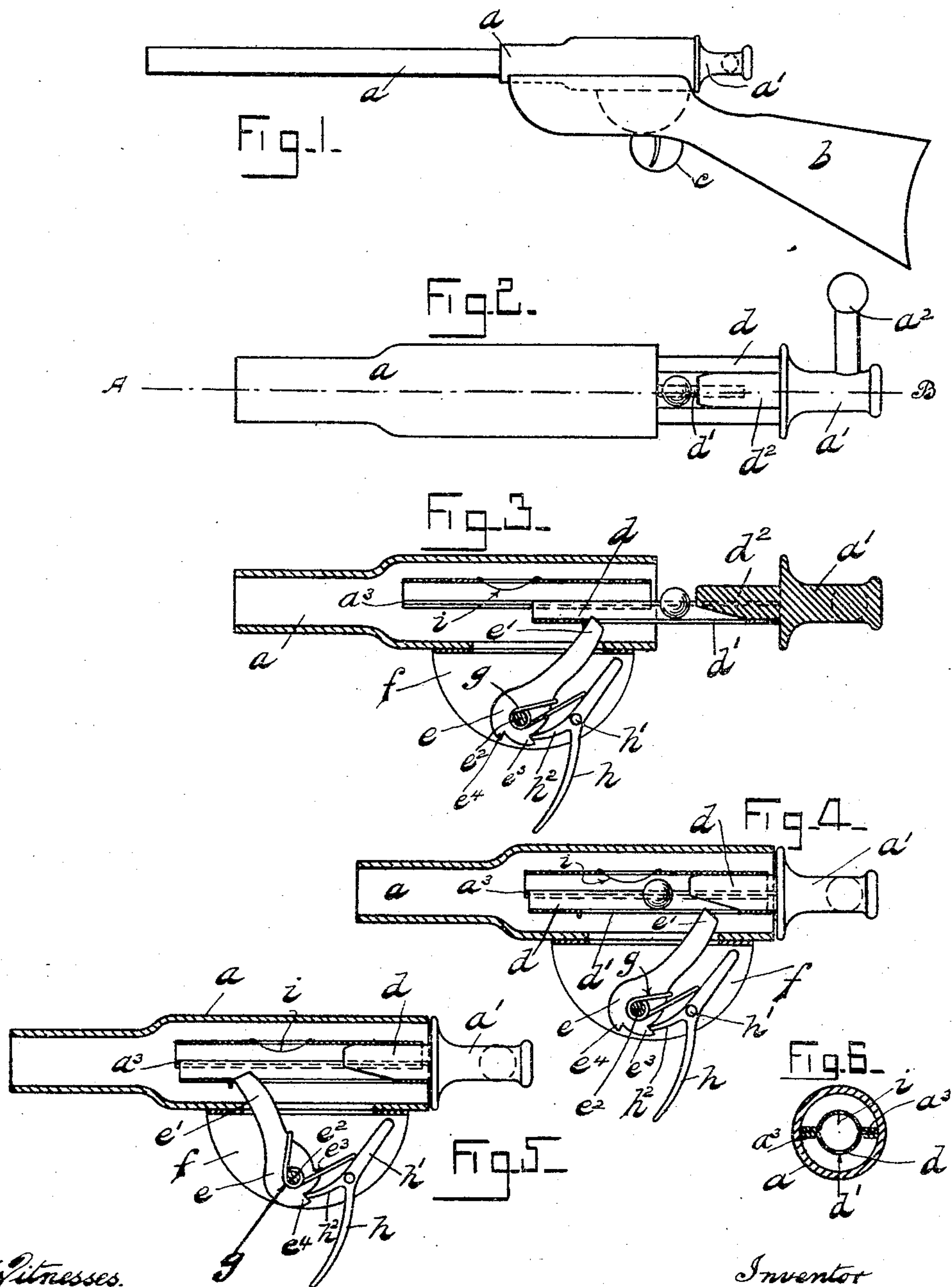
No. 765,786.

PATENTED JULY 26, 1904.

R. M. PAINTER.  
TOY GUN.

APPLICATION FILED NOV. 17, 1902. RENEWED JAN. 6, 1904.

NO MODEL.



Witnesses.  
A. J. Budd  
B. J. J. J.

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# UNITED STATES PATENT OFFICE.

ROBERT MARRINER PAINTER, OF BRIGHTON, ENGLAND.

## TOY GUN.

SPECIFICATION forming part of Letters Patent No. 765,786, dated July 26, 1904.

Application filed November 17, 1902. Renewed January 6, 1904. Serial No. 187,892. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT MARRINER PAINTER, a subject of the King of Great Britain, residing at Brighton, in the county of Sussex, England, have invented new and useful Improvements in Toy Breech-Loading Guns, of which the following is a specification.

This invention relates to improvements in toy breech-loading guns, and has for its object to provide a toy rifle, pistol, cannon, or the like having a breech mechanism enabling the toy to be loaded with a pea or other form of ammunition from the rear.

In carrying my invention into practice I so arrange the mechanism that the opening of the breech automatically cocks the hammer ready for operation.

In order that this my said invention may be the more readily understood and carried into practical effect, reference is hereby made to the accompanying sheet of illustrative drawings, wherein—

Figure 1 is a side elevational view of a toy rifle constructed in accordance with my invention. Fig. 2 is a plan view of the mechanism shown independently, the breech being opened ready to receive the charge to be projected. Fig. 3 is a sectional view thereof on line A B of Fig. 2. Fig. 4 is a similar view with the breech closed and the gun ready for operating. Fig. 5 is a further view of the mechanism after the trigger has been operated and the ammunition discharged, while Fig. 6 is a sectional view of the rear end of the rifle-barrel.

Referring to the drawings, in which like letters of reference indicate corresponding parts wherever occurring,  $a$  represents the barrel of the rifle, which is suitably mounted upon a stock  $b$ , provided with the usual trigger-guard  $c$ . A movable channel or grooved platform  $d$  is arranged within the rear end of the barrel  $a$  aforesaid, and this channel or grooved platform is attached to the breech-closing end piece  $a'$  of the said barrel  $a$ . A suitable knob  $a^2$  may, if desirable, be provided to enable the channel or grooved platform  $d$  to be readily withdrawn from the breech of

the gun-barrel  $a$ . This sliding channel  $d$  is supported in suitable guides  $a^3$ , arranged within the barrel  $a$ .

The upper end  $e'$  of a striker  $e$  projects through a slot in the under side of the barrel  $a$  and also through a coincident slot  $d'$  in the channeled platform  $d$ . This striker  $e$  is hinged or pivoted upon a pin or stud  $e^2$ , preferably between depending plates or lugs  $f$ . The lower pivoted end of the striker  $e$  aforesaid is enlarged and provided with two conveniently-situated ratchet-teeth  $e^3$  and  $e^4$ .

A spring is provided in connection with the striker  $e$ , a convenient arrangement being to connect one end of a coil-spring  $g$  to the operating-trigger, such spring being coiled around the pin or stud  $e^2$  and connected at its free end to a convenient part of the striker  $e$ . The operating-trigger aforesaid consists of a spring-controlled finger-piece  $h$ , pivoted at  $h'$  between the depending plates or lugs  $f$ , such finger-piece carrying a pawl  $h^2$ , arranged to operate in conjunction with the ratchet-teeth  $e^3$  and  $e^4$  of the striker  $e$ .

In operation the breech is opened by drawing out the channeled platform  $d$  by means of the knob  $a^2$ . The pea or other charge is then placed in position in the channel or groove of the platform  $d$ . The drawing out of the platform  $d$  also draws the striking end  $e'$  of the striker  $e$  to its rearmost position in opposition to the spring  $g$  aforesaid, and the said striker is retained in that position by means of the pawl  $h^2$  of the trigger engaging with the ratchet-tooth  $e^3$  of the striker. When the breech is closed again, the pea or other ammunition is pushed into the breech by means of the bolt  $d^2$  and is prevented from rolling out of the barrel  $a$  by a very light spring  $i$ , arranged within the barrel. In order to fire the rifle, the finger-piece  $h$  of the trigger is pulled, which action moves the pawl  $h^2$  out of engagement with the ratchet-tooth  $e^3$ , and the spring  $g$  causes the striker  $e$  to deliver a smart blow to the charge, thus projecting it out of the barrel. The striker  $e$  is prevented from springing too far forward by means of the second ratchet-tooth  $e^4$ , which engages the pawl  $h^2$ .



What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

5 In breech-loading mechanism for toy guns, the combination with guides arranged in the rear end of the barrel of the gun of a channeled platform adapted to slide in said guides, said channeled platform being attached to the rear-end-closing piece of the barrel and hav-  
10 ing a bolt for pushing home the charge, and

of a striker, the upper end of which projects through a slot in the channeled platform, all arranged combined and operating substantially as and for the purposes hereinbefore described.

ROBERT MARRINER PAINTER.

Witnesses:

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