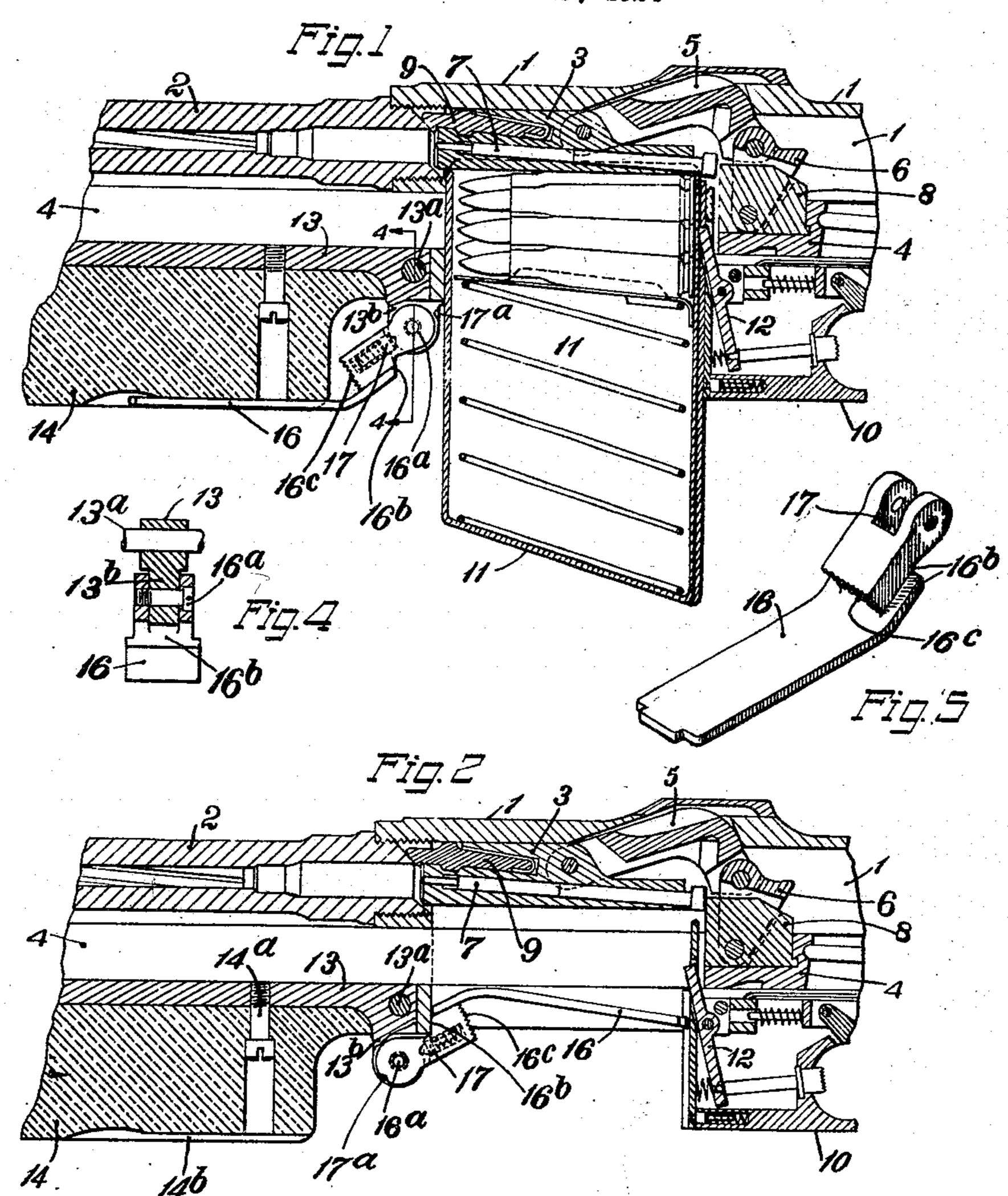
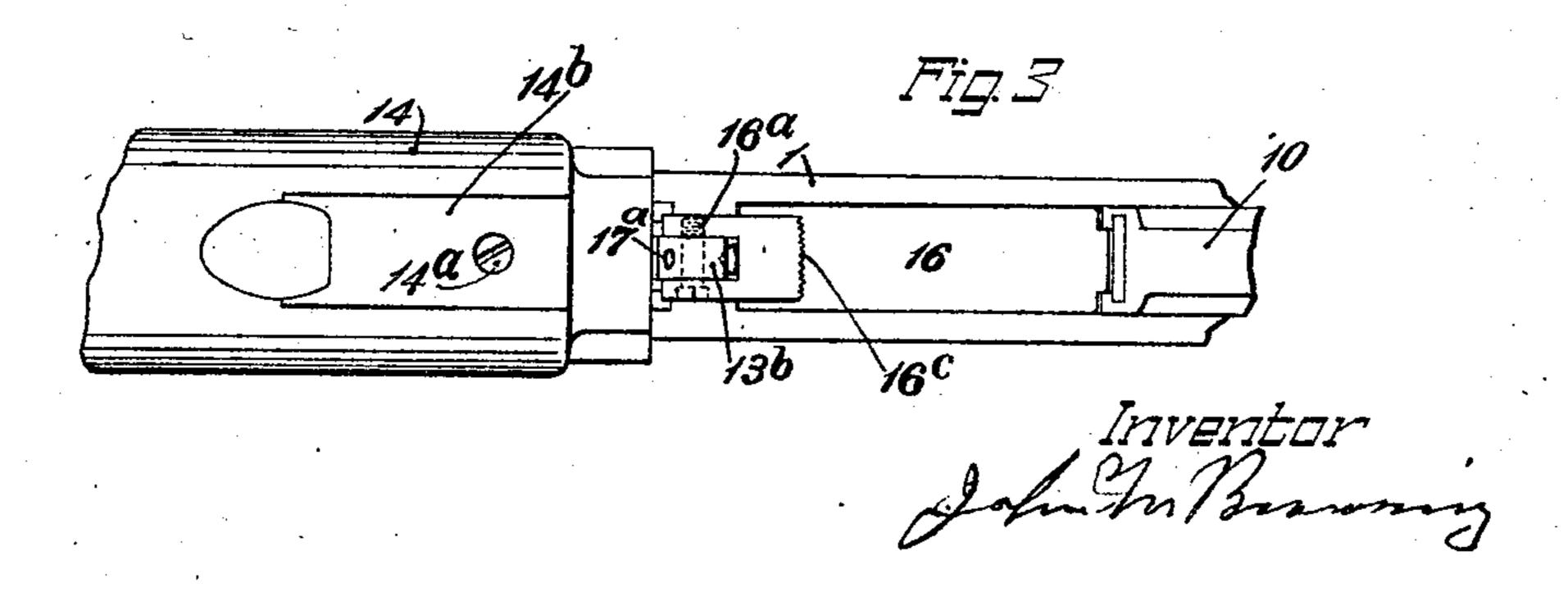
J. M. BROWNING

MAGAZINE FIREARM

Filed March 13, 1924





UNITED STATES PATENT OFFICE.

JOHN M, BROWNING, OF OGDEN, UTAH,

MAGAZINE FIREARM.

Application filed March 13, 1924. Serial No. 698,935.

To all whom it may concern:

Be it known that I, John M. Browning, ing said opening. a citizen of the United States, residing in Fig. 3 is a bottom plan of a portion of 5 Utah, have invented certain new and useful tive position as shown in Fig. 2. Improvements in Magazine Firearms, of Fig. 4 is a detail view, being a vertical which the following is a specification, refer-transverse section in line 4-4 of Fig. 1. ence being had to the accompanying drawings, forming a part hereof.

breech casing, and more particularly to automatic firearms of this class, such as are 15 shown, for example, in my prior Patent No. magazine, the barrel 2 secured to the for-

matic machine rifle.

20 case the opening in the wall of the breech breech block, the link 6 connecting said brace 25 the casing is liable to interfere with the casing in rear of the downward opening may even render the arm entirely unfit for and the magazine latch 12. 30 and cleaned.

improved means for closing said opening in the breech casing while the magazine has been removed. This object is attained by readily, at will, from its inoperative posiwhich it closes said opening, or vice versa.

Other and further advantages will appear

from the following disclosure.

is shown in the accompanying drawings, in what less width than the rear end of the gas which—

inbefore referred to, showing the invention end extension 13 enters into a vertical slot breech casing and the closing means for said see Figs. 1, 2 and 4.

closing means in its operative position clos-

Ogden, in the county of Weber and State of the arm with the closing means in the opera- 60

Fig. 5 is a detail view showing the closing member in perspective.

10 The invention relates to firearms of the The automatic firearm to which the invenclass having a detachable cartridge magazine tion is shown applied comprises the followarranged in an opening in the wall of the ing main parts; the breech casing I having near its forward end a downward opening to receive the upper end of the cartridge 70 1,293,022, dated February 4, 1919, for auto-ward end of said casing, the breech block 3 and the action slide 4 both mounted for lon-Firearms of this class have sometimes to gitudinal reciprocating movement in said be carried without the magazine, in which casing, the locking brace 5 pivoted to the 75 casing is left uncovered, and dust, dirt, and the action slide, the firing pin 7 carried snow, or other extraneous matter may enter by the breech block, the hammer 8 carried the breech casing through said opening. by said action slide, the extractor 9, the trig-The presence of such foreign matter within ger plate 10 closing the bottom of the breech 80 smooth functioning of the firearm if the which receives the upper end of the magasame should be required for service, and zine, the detachable cartridge magazine 11

service until it has been fully disassembled. All of these parts are constructed and ar- 85 ranged substantially as shown and described It is an object of the invention to over- in my prior patent hereinbefore referred to, come these difficulties by providing a novel, and further description thereof, except as they co-operate with the novel improved construction now to be described, is unnec-90

essary.

providing on the arm a closure for said To close the downward opening in the opening, which is arranged to be moved breech casing, when the magazine has been removed therefrom, a closing member 16 is tion, in which it does not interfere with the provided, said member being preferably 95 use of the arm, to its operative position in pivotally supported by a transverse pivot bolt 16^a in a downwardly projecting lug 13^b at the end of the breech casing in front of the magazine opening therein. This lug A preferred embodiment of the invention 13b, as clearly shown in Fig. 4, is of some-100 cylinder extension 13, and is preferably in-Fig. 1 is a central vertical longitudinal tegral with said extension to permit mountsection through a portion of a firearm simi- ing or dismounting of the gas cylinder and lar to that disclosed in the prior patent here-the closing member as a unit. At its rear 105 applied thereto; the magazine is shown seat- in the breech casing, in which it is secured ed in the opening through the wall of the in the usual manner by a transverse pin 13°,

opening is shown in its inoperative position. When the closing member 16 is in its op-110 Fig. 2 is a view similar to that shown in erative position shown in Figs. 2 and 3, it Fig. 1, but with no magazine, and with the effectually prevents foreign matter, such as

mud or snow, from entering the magazine opening, the thin plate of said member having a substantially rectangular shape to fit the corresponding magazine opening. The 5 rear wall of said opening has a wide vertical central groove which normally receives a corresponding rib on the magazine 11. To close said groove, the end of the closing plate has a short extension of a width to fit 10 into said groove, see Fig. 3.

The closing member 16 is prevented from swinging inward too far by a shoulder 16b striking the lower portion of the forward

wall of the magazine opening.

plate of the member 16 is protected from injury or deformation, as by blows, because it is enclosed within the breech casing.

Even in its inoperative position, it is, of 20 course, desirable that it be out of the way so as not to interfere with the use of the arm, and at the same time be protected. By the improved construction, these desirable fea-25 plate so bent some distance from the pivot removed, said member comprising a thin 90 30 the forearm 14 which is secured, as by swung out to its inoperative position, where-95 35 tudinal recess 14b to receive said parallel breech casing through said opening. portion of the closing plate when the member 16 is in its inoperative position, whereby said portion lies within the external contour of the forearm and is thus out of the way ⁴⁰ and protected against injury.

The closing member 16 is yieldingly kept either in its operative position, see Figs. 2 and 3, or in its inoperative position, see Fig. 1. by a device comprising a spring-actuated ⁴⁵ plunger 17 seated in the hub of said member and fitted to enter a shallow recess 17^a in the lug 13b corresponding to either of its

two positions.

That portion of said closing member 16 ⁵⁰ adjacent its pivot 16^a in which the plunger 17 and its spring are mounted is of considerable height but of less width than the thin closing plate, see Figs. 3, 4 and 5, and forms a shoulder 16°, which is preferably knurled or otherwise roughened, to provide a means closing member 16 out of the opening in the casing forward of the magazine opening, casing when moving it from its operative and an element of said firearm forward of

member 16 from its inoperative position member when the same is moved to its inshown in Fig. 1, the forward end of the re- operative position. cess 14° in the forearm extends beyond the 6. In a magazine firearm, a breech casing

permitting the operator to place the tip of his finger under the end of member 16 to swing the same out of the recess.

What I claim and desire to secure by Let-

ters Patent is:

1. In a firearm, a breech casing having an opening through its wall, cartridge holding means removably seated in said opening, and a hinged member for closing said opening when said cartridge holding means is 75 removed, said member being constructed and arranged, on being brought to its operative position closing said opening, to swing inwardly between the side walls of said In its operative position the thin closing opening whereby it is protected against in- 80 jury and having means for limiting said inward movement to positively prevent the entrance of solid foreign matter into the breech casing through said opening.

2. In a firearm, a breech casing having 85 an opening through its wall, a detachable cartridge magazine normally seated in said opening, and a hinged member for closing tures are attained by having the closing said opening when the magazine has been 16° as to cause the greater portion of its plate arranged to swing between the side length, when it is brought to its inoperative walls of said opening when the member is position as shown in Fig. 1, to extend par- moved to its operative position and to lie allel to the bottom of the lower surface of flat against a portion of the firearm when screws 14a only one of which is shown, to by it is at all times protected against injury. the extension 13 of the gas cylinder; the and means for limiting the inward moveforearm 14 is provided in said lower sur- ment of said member to positively prevent face of its rear end with a central longi- the entrance of solid foreign matter into the

> 3. In a firearm, a breech casing having an opening through its wall, a longitudinally extending element removably supported at its rear end by said casing, and a closure for said opening carried by said element, where- 105 by said element and closure may be mounted

or dismounted as a unit.

4. In a firearm, a breech casing having an opening through its wall, a longitudinally extending member removably supported at 110 its rear end in said casing, a forearm carried by said member, and a closure for said opening also carried by said member whereby said member, forearm and closure may be mounted or dismounted as a unit.

5. In a magazine firearm, a breech casing having an opening through its wall, a detachable cartridge magazine normally seated in said opening, a member for closing said opening when the magazine is detached, said 120 whereby the operator may readily swing the member being pivotally supported by said position to its inoperative position. said casing and provided with a recess there-To facilitate the starting of the closing in adapted to receive a portion of said 125

end of said member and is cut somewhat having an opening through its wall, a care deeper than the rest of said recess, thereby tridge magazine normally detachably seated

in said opening, a member supported by said detachable cartridge magazine, a gas cylincasing for movement to close said opening der supported at its rear end in said casing, and a member pivotally carried by said opening and a member pivotally carried by said cylinder for closing said opening when the magazine, a forearm supported forward of said opening is detachable cartridge magazine, a gas cylinder supported at its rear end in said casing, and a member pivotally carried by said cylinder for closing said opening when the 5 zine, a forearm supported forward of said casing, and a recess in said forearm to receive a portion of said member when the this 11th day of March, A. D. 1924. same is moved to its inoperative position, whereby the said portion is out of the way and protected against injury.

7. In an automatic firearm, a breech casing having a magazine opening to receive a

This specification signed and witnessed

JOHN M. BROWNING.

In presence of— C. J. EHBETS, J. CALVIN BRIGHT.