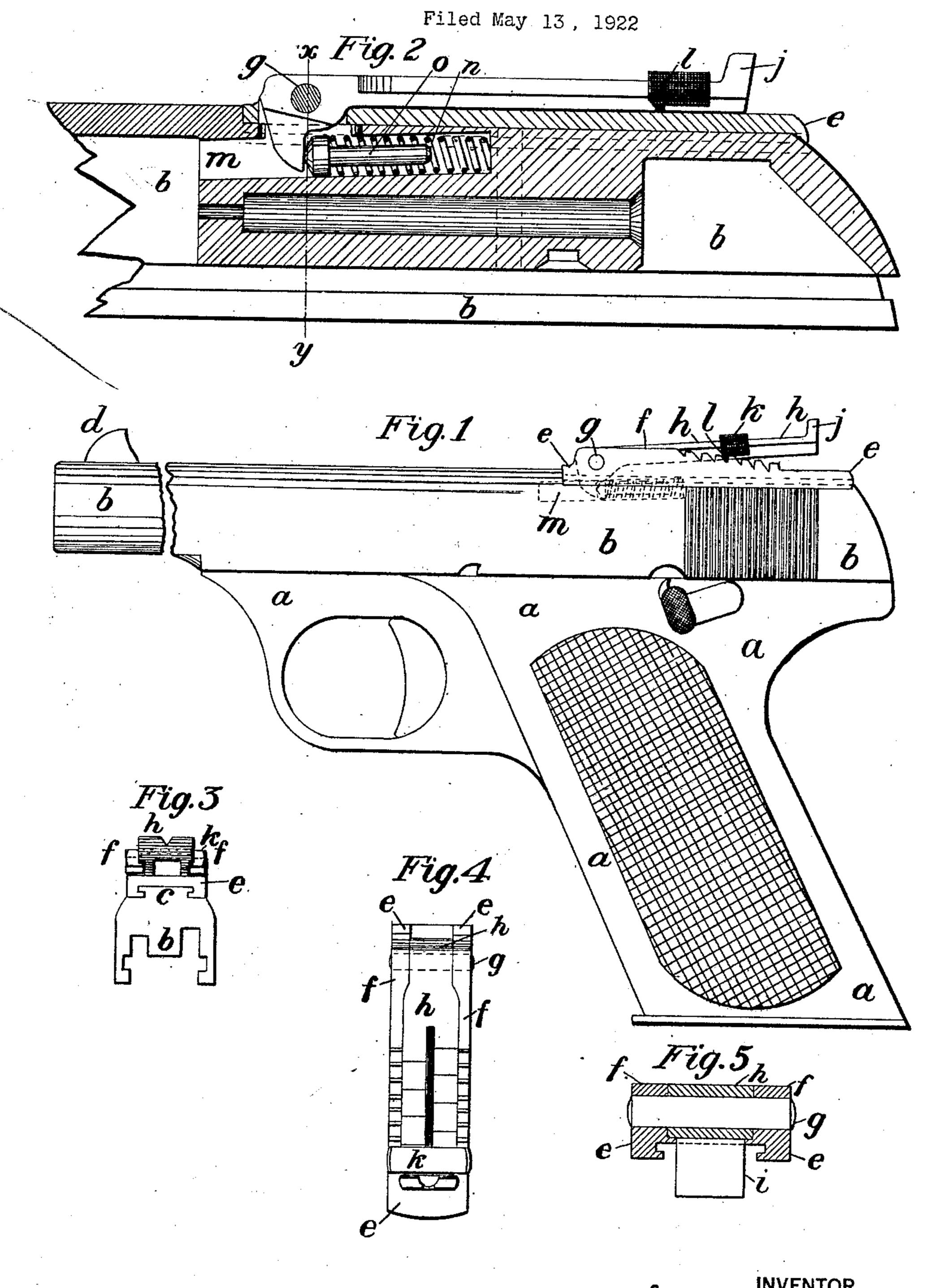
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J. M. BROWNING

REAR SIGHT FOR FIREARMS



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UNITED STATES PATENT OFFICE.

JOHN M. BROWNING, OF OGDEN, UTAH.

REAR SIGHT FOR FIREARMS.

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To all whom it may concern:

Ogden, in the county of Weber and State of said breech-slide. 5 Utah, have invented certain new and useful Improvements in Rear Sights for Firearms, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof.

10 The invention generally relates to adjustable rear sights for pistols, and it specially relates to the rear sights for automatic pistols which, when fired rapidly, are exposed to a succession of violent shocks due to their

15 recoil after each shot.

The main object of the invention is to provide for an automatic pistol an adjustable rear sight the movements of which will be cushioned so as to minimize the shocks 20 of recoil when the pistol is fired, and thereby prevent the sight from being thrown out of adjustment.

25 to a recoiling part of an automatic pistol in forward end is the front sight d, and the

30 ably attached rear sight, which carries an front end the base-plate e extends upward preventing said adjustable part from being 35 of recoil.

efficient and not liable to get out of order.

zine-pistol of my invention.

pistol with my improved rear sight attached near the forward end of said breech-slide; a portion of said breech-slide between the two sights being broken away.

scale, a vertical longitudinal section of the e from their forward highest portion in- 110 rear portion of the breech-slide, with the im-cline rearward and downward to the front proved rear sight attached thereto.

Fig. 3 represents a rear end view of the Be it known that I, John M. Browning, breech-slide, on the same scale as that of a citizen of the United States, residing in Fig. 1, with the rear sight attached upon

> Fig. 4 represents a plan view of the adjustable rear sight, detached, seen from above.

Fig. 5 represents a transverse section of the rear sight by a vertical plane, at the line 65 x-y of Fig. 2, as seen from the rear.

Similar letters refer to similar parts

throughout the several views.

The letter a denotes the frame, and b the breech-slide of an antomatic pistol vertically 70 confined upon the frame by the usual interlocking longitudinal ribs and grooves which also serve to guide the breech-slide b in its lengthwise reciprocations upon the frame a.

The top of the breech-slide is provided 75 with a longitudinal rib c extending from its rear end to its forward end, and said rib is T-shaped in cross section, its top extend-The special object is to provide means for ing beyond its lower portion on each side. Sesecurely attaching an adjustable rear sight curely fixed in the breech-slide b near the 80 such manner that on firing the shocks of re- base-plate e of the rear sight is mounted coil will not loosen said attachment. upon the rear portion of the rib c said base-Another object is to provide on an auto-plate e having a coresponding longitudinal matic pistol a securely but lengthwise mov- T-shaped slot in its under side. Near its 85 adjustable part, with cushioning means be- to form on each side a longitudinal rib f in tween said movable sight and said pistol for the forward portion of which the transverse pivot-pin g is seated which serves the purthrown out of its adjustment by the shock pose of pivotally attaching the adjustable 90 sight-leaf h to the base-plate e.

These objects are attained by a rear sight At some distance in rear of the pivot-pin of simple and practical construction, having g the two ribs f, f being reduced in width, few parts inexpensive of manufacture, but leave a somewhat wider longitudinal opening between them and the adjustable sight- 95 The embodiment of the improvements replaced leaf h, being correspondingly widened, fills resented in the accompanying drawings is in its lowest folded-down position this wider an adjustable rear sight attached to the re- space. Movably attached to the sight-leaf coiling breech-slide of a well known maga- h is the sight-slide k with its projecting knurled ends adapted to be grasped and its 100 In the accompanying drawings, Fig. 1 is lower edges extended inward below the una side elevation of an automatic magazine- dercut sides of the sight-leaf h. The rearward movement of the sight-slide k is limitto the top of the breech-slide near the rear ed by a transverse upward projection j on end of same, and with the front sight fixed the rear end of the sight-leaf h, and in 105 said projection j a central V-shaped sighting notch is cut through which the frontsight d may be seen in aiming the pistol.

Fig. 2 represents, an a greatly enlarged The ribs f, f on the sides of the base-plate of the sight-slide k in its rearmost position,

and are provided with a series of V-shaped transverse recesses, and the sight-slide k has on each side a corresponding V-shaped downward projection l, to engage any one 5 of the said recesses in the ribs f, f, by which arrangement the sight-leaf h may be at will raised from its lowest rear position to its highest forward position, or to any of the

intermediate positions.

The upper surface of the sight-leaf h, between the ribs f, f, is divided into two parts by a strong central longitudinal line, and on each side of this line a series of transverse graduation lines is cut, see Fig. 4, with 15 spaces between the lines for numerals to indicate the range for which the sight-leaf h is raised when the downward projections, l, l of the sight-slide k rest in any of the series of recesses in the ribs.

The entire construction of the sight as far as described is the usual well-known one and does not need further explanation.

In Fig. 5 the central portion of the sightleaf h pivotally attached to the base-plate e between the ribs f, f by the pivot pin g, carries a strong transverse downwardly projecting tongue i which extends through a slot in the base-plate e and through a corresponding slot in the top of the breech-slide b into a longitudinal hole m in the upper portion of the breech-slide b; the rear portion of this hole m provides the seat for the spiral spring n and for the piston-pin o, the enlarged forward portion of which rests against the rear face of the tongue i, whereby the tension of the spring n, transmitted through the piston o to the tougue i, tends to turn it on its pivot in forward direction, and thereby also tends to turn the sightleaf h in rearward and downward direction, and at the same time tends to yieldingly hold the base-plate e and with it the entire rear sight in the forward position.

As is clearly indicated in Fig. 2, the front 45 end of the slot in the top of the breech-slide b, coincides with that of the slot in the baseplate e, so that there may be a rotary movement of the sight-leaf h and its tongue on the pivot-pin g, but there cannot be any 50 longitudinal movement in forward direction of either the sight-leaf or of the baseplate e; however, the rear end of the ver-55 the slot in the base-plate e, and this enables curing said base-plate on said breech-slide 120 be moved to the rear of a certain distance. said base-plate.

recoils upon the frame supported in the having a recoiling breech-slide, compris-60 shooter's hand grasping the grip, then the ing a breech-slide, a base-plate movably 125 recoil of the breech-slide is stopped and the attached to said breech-slide and having on rear sight, under its momentum, tends to its sides recesses, a leaf pivoted to said move further rearwad upon the breech-slide. base-plate and carrying a sight-slide adapt-65 sion the base-plate e and with it the entire leaf having a projection extending into 130

rear sight are exposed to violent shock liable to loosen the attachment of the sight and to disturb the adjustment of its movable parts.

The spring n and piston o by their connection through the tongue i with the base- 70 plate e serve to cushion the shocks, to yieldingly hold the base-plate e in place and after each shot to return it to its proper forward position, and also at the same time to yieldingly hold the pivoted sight-leaf in its ad- 75 justed position by preventing it from being turned upward and forward by the shocks.

An automatic pistol is therefore adapted to be fired rapidly and yet with great accuracy, by being provided with the hereinbe- 80 fore described rear sight and its cushioning

device.

What I claim is:

1. In a rear sight for automatic pistols having a recoiling breech-slide, the combina- 85 tion of a recoil-actuated breech-slide, a baseplate lengthwise movably attached on said breech-slide, and a spring mounted in said breech slide and holding said base-plate yieldingly in its attachment on said breech- 90 slide.

2. In a rear sight for automatic pistols having a recoiling breech-slide, the combination of a recoil-actuated breech slide, a baseplate lengthwise movably attached on said 95 breech-slide, said base-plate carrying a projection extending inward into said breechslide, and a spring in said breech-slide acting on said projection to hold said baseplate yieldingly in its attachment on said 100

breech-slide.

3. A rear sight for automatic pistols having a recoiling breech-slide, comprising a breech-slide, a base-plate movably attached to the breech-slide of said pistol, a leaf pivoted 105 to said base-plate and having a projection extending into said breech-slide and a piston yieldingly slidable within said breechslide and acting on said projection for yieldingly securing said base-plate on said breech- 110 slide.

4. A rear sight for automatic pistols having a recoiling breech-slide, comprising a breech-slide, a base-plate movably attached to said breech-slide, a leaf pivoted to said 115 base-plate and having a projection extending into the breech-slide, and a piston yieldtical slot in the breech-slide b is located con- ingly slidable within said breech-slide and siderably further to the rear than that of acting on said projection for yieldingly sethe base-plate e and the entire rear sight to and yieldingly holding said leaf adjusted on

When the piston is fired the breech-slide 5. A rear sight for automatic pistols When several shots are fired in rapid succes- ed for engagement with said recesses, said

8

the breech-slide, and a spring-actuated piston yieldingly slidable within said breech- breech-slide. slide and acting on said projection for yield- 8. A rear sight for automatic pistols havsaid sight-slide adjusted on said base-plate.

6. In a rear sight for automatic pistols having a recoiling breech-slide, the combination of a recoil-actuated breech-slide, a base-10 plate lengthwise movably attached on said to yieldingly secure said base-plate on said slide for yieldingly holding said base-plate in its attachment on said breech-slide.

7. In a rear sight for automatic pistols 15 having a recoiling breech-slide, the combination of a breech-slide, a base-plate movably attached on said breech-slide, and a springpressed member within said breech-slide, said base-plate and said member co-operating

to hold the base-plate yieldingly on said 20

ingly securing said base-plate on said breech- ing a recoiling breech-slide, comprising a 5 slide and yieldingly holding said leaf and breech-slide, a base-plate movably attached to said breech-slide, an adjustable sight-leaf 25 pivoted to said base-plate, and a member yieldingly slidable within said breech-slide, said sight-leaf and said member co-operating breech-slide, and means within said breech- breech-slide and to yieldingly hold said 30 sight-leaf adjusted on said base-plate.

This specification signed and witnessed

this 4th day of May, A. D. 1922.

JOHN M. BROWNING.

In the presence of— C. J. EHBETS, A. L. Ulrich.