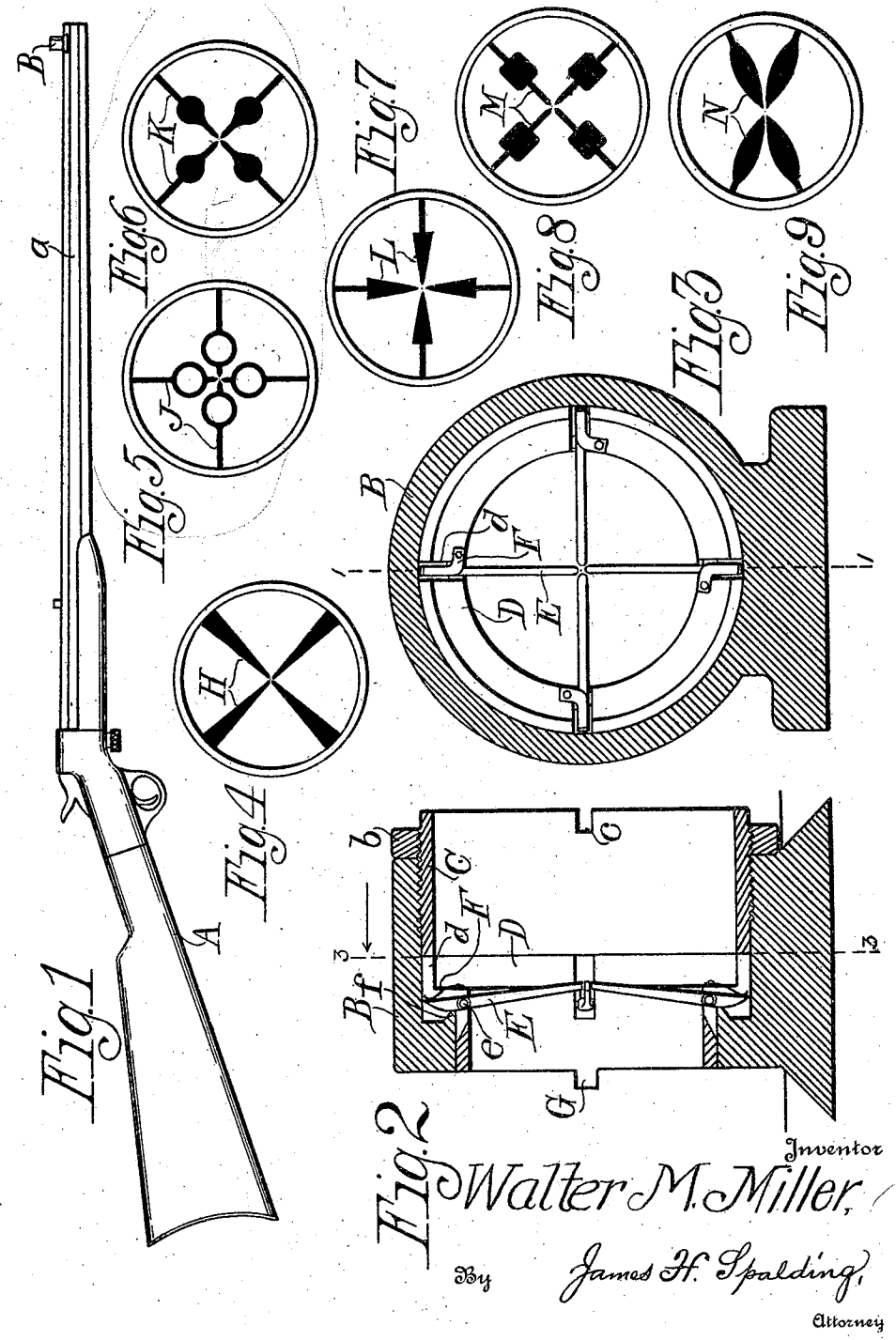
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W. M. MILLER.

ADJUSTABLE GUN SIGHT.

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UNITED STATES PATENT OFFICE.

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ADJUSTABLE GUN SIGHT.

Application filed February 9, 1921. Serial No. 443,625.

To all whom it may concern:

Be it known that I, WALTER M. MILLER, citizen of the United States, residing at Dougherty, in the county of Cerro Gordo and State of Iowa, have invented certain new and useful Improvements in Adjustable Gun Sights, of which the following is a specification.

This invention relates to adjustable gun sights, and has for its object the production of devices applicable to any firearm, by which it is believed the user may see the sight quicker and aim more rapidly than can be done at present by employing any of the sighting appliances with which this applicant is acquainted. It is also an object of this invention to provide devices by which the sight may be adjusted for quickly aiming the gun at an object near by, or it may be adjusted for accurate and less rapid firing at distant objects. Under certain conditions, for example, when shooting at small game in flocks, the sighting pointers may be turned into nearly a horizontal position as they are not then needed for closeness of aiming.

This invention comprises parts of special construction, arrangement and operation, as set forth in the accompanying drawings, of which Fig. 1 represents a side view of a rifle to which this invention has been applied. Fig. 2 is a section, much enlarged, taken upon the vertical broken line 1—1 of Fig. 3. Fig. 3 is a section also on an enlarged scale taken on the vertical broken line 3—3 in Fig. 2. The remaining figures are diagrammatic and are introduced to show various forms of the pointers or sight arms used with this invention. Fig. 4 shows a spear-head or wedge form; Fig. 5 represents the arms provided with open circular portions; Fig. 6 sets out arms having pear-shaped enlargements; Fig. 7 has arrowhead forms; Fig. 8 has square forms on the pointers, and Fig. 9 is provided with arms in elliptical or leaf formation.

Throughout the drawings and description the same letter is used to refer to the same part.

Considering the drawings, the position of the sight will be noted in Fig. 1, although it is not intended to limit the placing of this invention upon the muzzle end of the barrel.

The external body or supporting member, best shown in Figs. 2 and 3, is marked B, and at one end is a lock nut *b* engaging the adjusting nut C. The adjusting nut has in its exposed edge one or more notches such as notch *c* by which the nut may be turned by means of a screw driver or suitable tool.

The adjusting nut bears against the edge of a ring D, which is provided with a number of spaced recesses *d*, usually although not necessarily arranged at quadrantal points around the edge of the ring D. In the recesses *d* are the ends of the radially disposed pointers such as the pointer E, and each pointer has a pivotal connection, such as the pivot *e*, with the ring. The ring D, therefore, carries the pointers, and the free ends of the pointers are movable to and from a common center, as will be readily discerned form the drawings.

Against the pivoted end of each pointer in the recess *d* and beyond the pivot *e* the end of a spring F bears, and on the other side of the pivoted end of the pointer the supporting member B has an annular ridge *f* bearing against the pointer.

The projection G shown in Fig. 2 is provided to enable the ring D to be turned within the supporting member B, the ring being movable in the member B. It is not necessary that the pointer should be arranged vertically and horizontally as illustrated in Figs. 2 and 3, and they may extend in inclined directions as set forth in the diagrams. It is not absolutely necessary that the arms or pointers shall be pivoted at quadrantal points on the ring D. The recesses may be formed nearer together, which would give the pointers about the positions drawn in Fig. 9. Whatever may be the rotated position of the ring D, it is secured in that position by the adjusting nut C and the lock nut *b*.

In the selection of firearms and sights or other appurtenances there is a wide element of personal preference for forms and appearance, and in the manufacture of this invention this condition of things is taken into consideration. In the diagram Fig. 4 the pointers H are wedge-shaped, and in all the modifications of form the pointers may be blacked to prevent any metallic glistening that might disconcert the person aiming the piece. In Fig. 5, the pointers have open rings or loops and the pointers are referred to by letter J. In Fig. 6 the enlargements are pearshaped; in Fig. 7 they are arrowheads. The pointers in Fig. 6 are marked K and those in Fig. 7 are designated

by the letter L. In Fig. 8 the pointers M have square forms included in them, and in Fig. 9 the pointers are elliptical leaf in contour. Whatever the forms of the pointers, the operation is the same.

In the operation of this invention, if the adjusting nut C is screwed into the supporting member B, springs F are compressed, and ridge *f* bearing upon the ends of the pointers beyond the pivot, moves the free ends to the center. The contrary movement of the adjusting nut permits the springs F to operate the pointers moving their free ends from the common center. When the ends of the pointers are near the center the sight is arranged for accurate shooting at a distance, and when they are separated somewhat the sight is arranged for quick aiming at an object relatively nearer. If desired, the pointers may be moved away from the center, so that they are practically entirely out of the line of sight. Various changes of form of the parts of this invention will occur upon inspection to those familiar with firearms, and it is not intended to limit the claims in this case to the exact shapes represented in the drawings.

Having now described this invention and explained the mode of its operation, what I claim is:—

1. In an adjustable gun sight, the combination with a supporting member, of a plurality of pointers, means borne by the supporting member for carrying the pointers, each pointer having one end pivotally connected with the said carrying means, the free ends of the said pointers being arranged to move to and from a common center, and means borne by the said supporting member for operating the pointers.

2. In an adjustable gun sight, the combination with a supporting member, of a ring movably disposed within the said supporting member, a plurality of pointers each having one end pivotally connected with the said movable ring, the free ends of the said pointers being arranged to move to and from a common center, means for moving the said ring, and means acting upon the pivoted ends of the pointers during the movements of the ring whereby the pointers are operated.

3. In an adjustable gun sight, the combination with a supporting member, of a plurality of pointers, means for carrying the pointers, each pointer having one end pivotally connected with the said carrying means, the free ends of the pointers being movable to and from a common center, and means borne by the said supporting member and including springs arranged to bear upon the pivoted ends of the pointers and whereby the said pointers are operated.

4. In an adjustable gun sight, the combination with a supporting member, of a plurality of pointers, a ring movably supported by the said member, each pointer having one end pivotally connected with the said ring, the pointers having free ends movable to and from a common center, the said supporting member having an annular ridge arranged against the pivoted ends of the pointers, springs carried by the said ring and arranged to bear upon the pivoted ends of the said pointers, an annular adjusting nut arranged to move the said ring whereby the said pointers are operated, and means for locking the adjusting nut.

In testimony whereof I affix my signature.

WALTER M. MILLER.