

R. MORTIMER.

GUN SIGHT.

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917,101.

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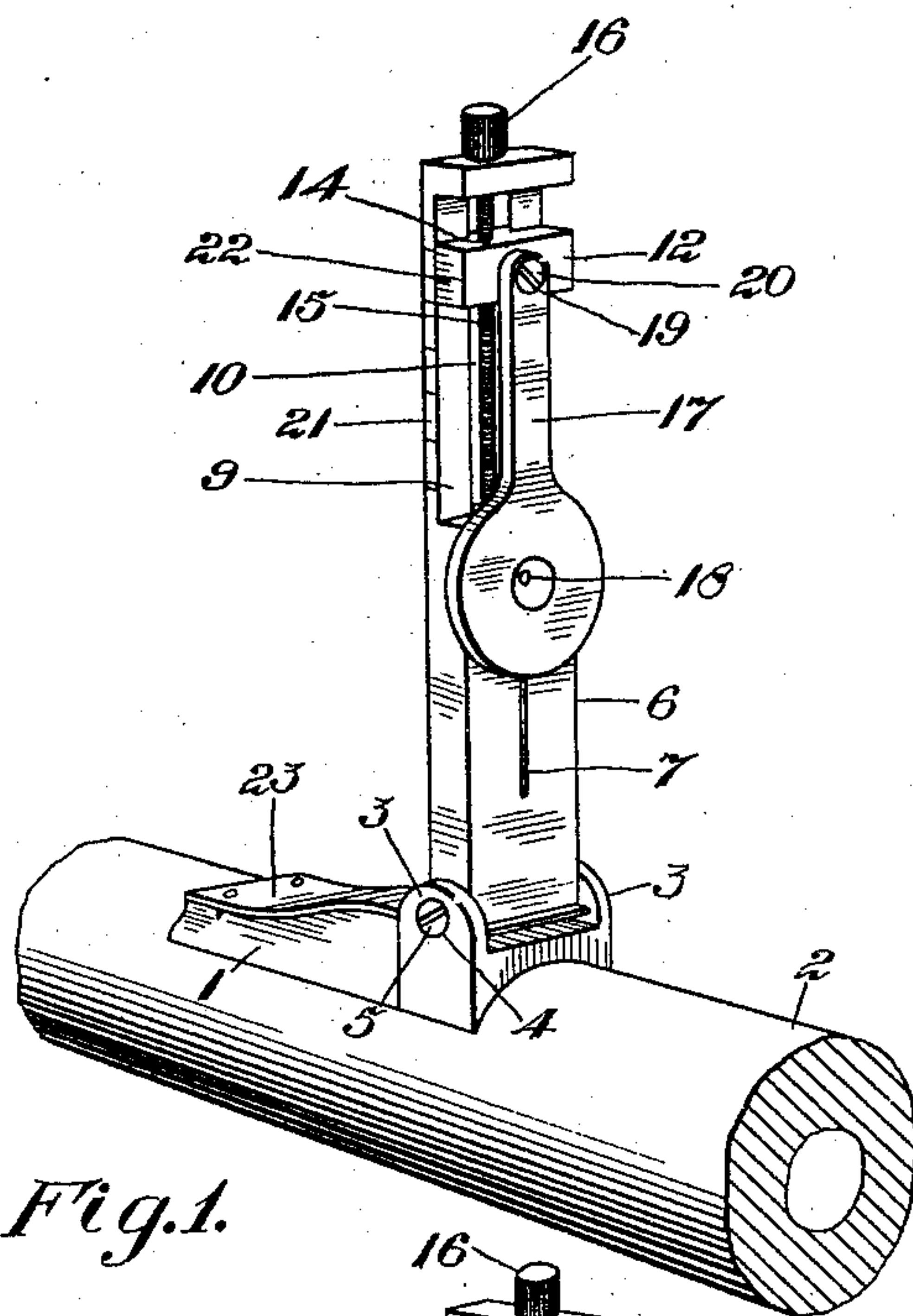


Fig. 1.

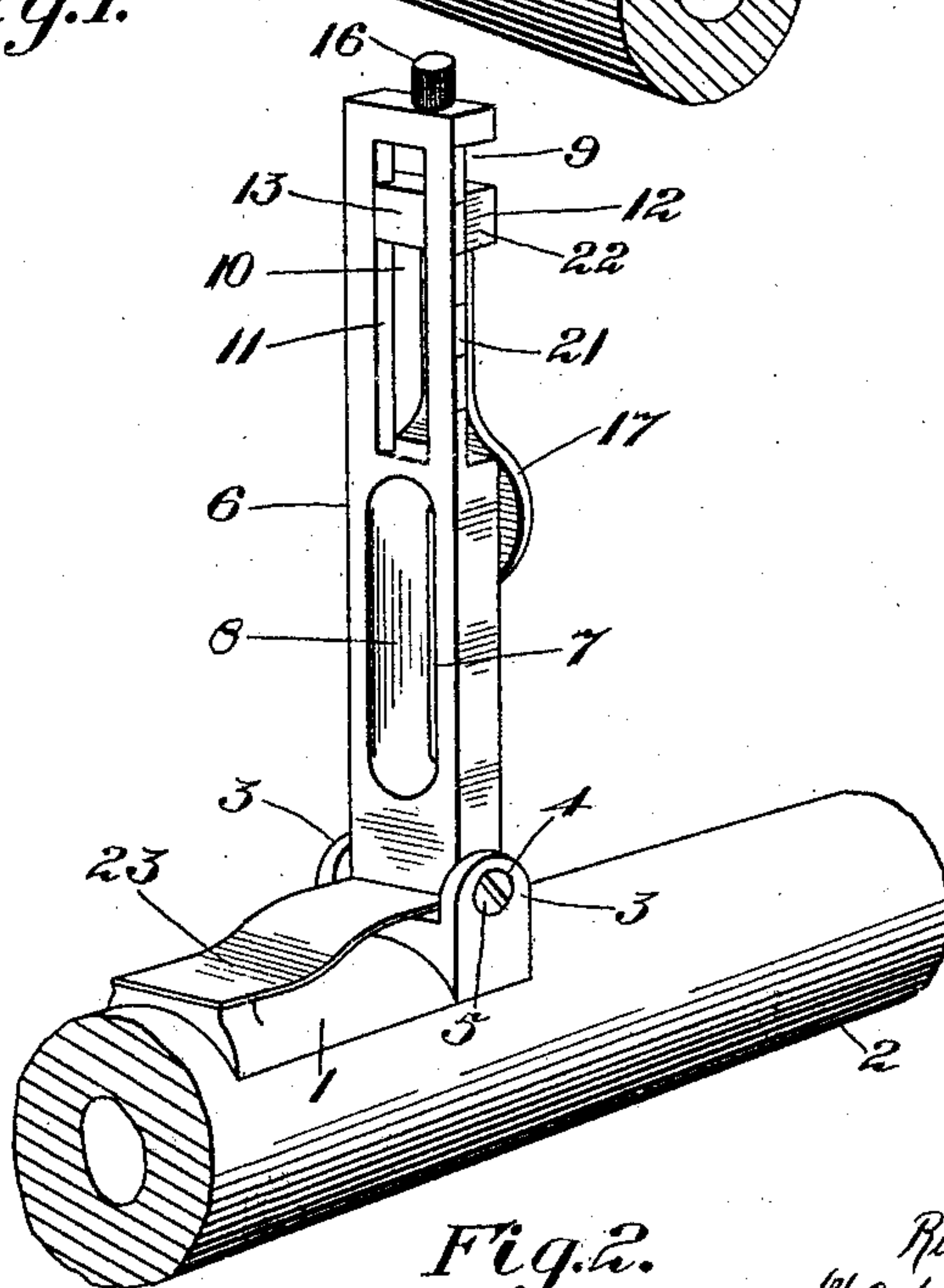


Fig. 2.

Witnesses.
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UNITED STATES PATENT OFFICE.

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GUN-SIGHT.

No. 917,101.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, RICHARD MORTIMER, a subject of the King of Great Britain, resident of Dudley, in the district of Muskoka, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Gun-Sights, of which the following is a specification.

The invention relates to improvements in gun sights as described in the following specification and illustrated in the accompanying drawings that form part of the same.

The invention consists essentially in the novel construction and arrangement of parts whereby a swinging peep sight is adjustably suspended in close relation with a vertically slotted sight bar.

The objects of the invention are to facilitate accuracy in shooting and to insure the gun being held level, and to furnish a simple construction in which adjustment may be made quickly and accurately.

In the drawings Figure 1 is an enlarged perspective rear view of my improved gun sight shown attached to a portion of a rifle barrel. Fig. 2 is an enlarged perspective front view of my sight.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings 1 is the base of the sight rigidly secured to the rifle barrel 2 and having the lugs 3 projecting upwardly from the sides thereof, one of said lugs having a plain orifice 4 therethrough, and the other having a threaded orifice arranged opposite the orifice 4.

5 is a pin extending through the orifice 4 and threaded into the correspondingly threaded opposing orifice in the other lug.

6 is the main or upright portion of the sight pivotally supported on the pin 5 and fitting between the lugs 3, said upright having the narrow slot 7 centrally and vertically arranged therein and extending from the rear side through to a longitudinal beveled recess 8 formed in the front of the said upright.

9 is a recess formed in the rear face of the upright 6 above the slot 7 and preferably extending the full width thereof, said recess being slightly longer than the slot 7.

10 is a vertical slot centrally arranged in the upper recessed portion of the upright 6 having the outwardly beveled edges 11.

12 is a block fitting in the recess 9 and hav-

ing a dovetail portion 13 extending into the slot 10 and sliding therein and in the recess 9, said block having a central vertical threaded orifice 14 extending therethrough.

15 is a threaded spindle extending through a centrally arranged vertical orifice in the upper end of the upright portion 6 and through the threaded orifice 14 in the block 12 the lower end extending into and turning freely in an orifice formed at the bottom of the recess 9, said spindle having a suitable thumb nut 16 on its upper end.

17 is a pendulum shaped peep sight having the centrally arranged peep hole 18 in its lower end and a counter sunk orifice 19 in its upper end.

20 is a screw having its head counter sunk into the orifice 19 in the peep sight and threaded into a correspondingly threaded hole in the block 12 and pivotally supporting said sight from said block. The suspension screw 20 is arranged in perfect central alignment with the vertical slot 7 in the upright 6 and also with the peep hole 18 in the peep sight 17, so that when the rifle barrel is held with the main sight in a true perpendicular position, a sight may be taken through the peep hole and slot 7, but if the gun is canted the slightest degree the pendulum 17 will swing and throw the peep hole and vertical slot 7 out of register and therefore a sight cannot be taken.

The pendulum peep sight 17 is made of sufficient length so that the peep hole 18 will register with the bottom of the slot 7 when the block 12 is in its lowermost position and the said block may be raised by degrees very accurately by the turning of the threaded spindle 15. A suitable scale 21 is marked on the side of the upright 6 to register with the vernier scale 22, thus a very accurate adjustment of the sight may be had. Other means for adjustment may be used if desired.

23 is a flat spring rigidly secured to the base 1 having its free end extending under the squared end of the upright 6 and holding said upright in its vertical position but allowing it to be easily swung on its pivot parallel with the gun so that a suitable cover may be placed over the sight to protect it from injury while not in use.

A sight such as described absolutely prevents the taking of a sight with the rifle canted, as the pendulum peep sight swings freely on its pivot and therefore shooting with a

gun provided with this sight will be much more accurate than with sights at present in use. A peep sight is also provided which will also insure a more accurate sight being taken and the arrangement of the adjustment for raising and lowering the pendulum sight gives a very fine adjustment.

The form of sight shown in the drawings is shown arranged in a rigid position centrally of the gun but if desired a suitable arrangement may be made for shifting the whole sight from side to side to provide a wind adjustment without affecting the essential feature of the device. Further, the detail construction may be altered in many particulars and the sight changed to suit various requirements so long as the pendulum peep sight and vertical slot are adhered to.

What I claim as my invention is:—

1. In a gun sight, the combination with the gun barrel and base secured thereto, of an upright member having a vertical slot therethrough, a swinging member adjustably suspended in rear of said upright and having a central sighting orifice therethrough registering with said vertical slot when in a true vertical position.

2. In a gun sight, the combination with the gun barrel and base secured thereto, of an upright member having a vertical slot therethrough, a block adjustably secured to said upright above said vertical slot, and a swinging member pivotally secured to said block and suspended to the rear of said slot and having an orifice therethrough registering with said slot.

3. In a gun sight, the combination with the gun barrel and base secured thereto, of an upright member having a vertical slot therethrough, and a longitudinal recess in its front face arranged above said slot, a block

slidably arranged in said recess and having a vertical threaded orifice therethrough, a screw turning in said upright and extending through the threaded orifices in said block and raising and lowering said block, and a swinging member pivotally secured to said adjustable block and having a peep hole therethrough registering with the vertical slot in said upright in the true position.

4. In a gun sight, the combination with the gun barrel and a base thereon having a pair of lugs extending upwardly therefrom and orifices through said lugs and a pin extending through said orifices, of an upright member pivotally supported on said pin and having a central vertical slot in the lower portion thereof and a longitudinal recess in its upper portion, a vertical dove tail slot communicating with said recess and a scale marked on its outer edge adjacent to said recess, a block slidably arranged in said recess and having a dove tail portion sliding in said dove tail slot and a central vertical threaded orifice therethrough and graduations marked on its end registering with the graduations on said upright, a pendulum shaped peep sight pivotally secured in said slidable block and depending centrally therefrom and having a central circular orifice through its lower end, said orifice registering with said slot in said upright when in the vertical position, and a spring rigidly secured to said base and holding said upright in a raised position.

Signed at the village of Bala, district of Muskoka, Province of Ontario, in the Dominion of Canada this 4th day of July 1908.

RICHARD MORTIMER.

Witnesses:

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