

N^o 26,395



A.D. 1908

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Complete Specification Left, 1st June, 1909—Accepted, 23rd Sept., 1909

PROVISIONAL SPECIFICATION.

"Improvements in or relating to Mountings for Rifle Sights."

I, LUKE RICKETTS TIPPINS, of Mistley, Manningtree, Essex, Rifle Expert, do hereby declare the nature of this invention to be as follows;—

This invention has relation to sight-mountings for rifles, and has for its principal object, to provide a means whereby existing rifles having a side aperture-sight (such as the Lee-Enfield short rifle, the Lee-Enfield long rifle and the Lee-Enfield converted rifle) can be fitted with an additional leaf or other sight which is carried in a position nearer to the shooter's eye than the usual short-range leaf sight but will nevertheless permit of the easy withdrawal of the bolt or the stripping of the action when required.

10 The improved sight-fitting or mounting is adapted to be secured to the left-hand side of the body of the rifle by the same means as are now used in Lee-Enfield and like rifles for the attachment of the long-range aperture sight, viz., by a hinge pin and side spring, and the sight which is carried upon said mounting is adapted to be used instead of the existing short-range and long-range rear sights.

15 The improved mounting comprises a base or bed-plate, which is shaped so that, normally, or when the rifle is in use, the said base will seat or saddle itself closely upon or over the bolt-guide portion of the action body that comes between the loading aperture and the extreme rear end of the said body; the said base having a clearance at its right-hand rearward part so as to avoid interference with the turning of the bolt-lever into its upright position prior to the opening of the bolt.

20 The base is provided with knuckles for the attachment of the leaf or pillar of any suitable type of sight and with a spring for holding the said leaf or pillar erect, and by virtue of the fact that it saddles over the action body, the attachment is held steady against lateral movement, whilst in order to provide for existing side-aperture fittings being used for securing the new mounting to the rifle, and also to provide for the attachment being swung out of the way of the bolt-head when it is desired to take out the bolt, the left-hand side of the base is hinged to the forward end of an arm or limb whose rearward end is adapted to be connected to the action body by the ordinary side-aperture hinge pin, and the aperture side-spring is also used for engaging with notches in the said end of the arm so as to hold the complete mounting steady.

30 When the sight-bed is in its position for use, the attachment arm extends horizontally along the action body, and by the side of the said bed or base, and the two parts are locked together by some suitable device, such as a thumb screw which is carried in the arm and has a bearing or engagement upon or in the side of the base. But when it is desired to take out the bolt, the locking device is removed or withdrawn so that the arm may be turned upwards upon its joint and thereby lift the sight base to such a height above the action-body as to give the necessary clearance for the bolt-head.

35 The joint connection between the carrier-arm or limb and the side of the sight base may be made by a rivet or by a screw arranged so that the parts may turn freely but without shake or side play.

[Price 8d.]



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In some cases, the fixing of the attachment may be provided for by a retaining screw engaging with the body of the action.

Although primarily adapted for application to rifles of the Lee-Enfield type having existing fittings for the attachment of side aperture-sights, the improved sight mounting may also be applied or adapted to other types of rifles by providing suitable means for hinging the rear end of the carrier arm to the side of an action body or other part of the rifle rearwards of the ordinary short-range back-sight mounting.

Where a thumb screw is employed for locking the arm to the bed when the latter is in position for use, the shank of the screw is preferably provided with collars or other stops which allow the same to have a sufficient range of movement for locking and releasing the bed, and yet prevent its detachment from the carrier-arm or limb.

Dated this 5th day of December, 1908.

LUKE RICKETTS TIPPINS. 15

By Henry Skerrett,
Agent for Applicant.

COMPLETE SPECIFICATION.

"Improvements in or relating to Mountings for Rifle Sights."

I, LUKE RICKETTS TIPPINS, of Mistle, Manningtree, Essex, Rifle Expert, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has relation to sight-mountings for rifles, and has for its principal object, to provide a means whereby existing rifles having a side aperture-sight (such as the Lee-Enfield short rifle, the Lee-Enfield long rifle and the Lee-Enfield converted rifle) can be fitted with an additional leaf or other sight which is carried in a position nearer to the shooter's eye than the usual short-range leaf sight but will nevertheless permit of the easy withdrawal of the bolt or the stripping of the action when required.

The improved sight-fitting or mounting is adapted to be secured to the left-hand side of the body of the rifle by the same means as are now used in Lee-Enfield and like rifles for the attachment of the long-range aperture sight, viz., by a hinge pin and side spring, and the sight which is carried upon said mounting is adapted to be used instead of the existing short-range and long-range rear sights.

Figure 1 of the accompanying drawings shows in side elevation the improved sight mounting constructed in accordance with this invention, and shown as applied to a Lee-Enfield type of action body. The dotted lines represent the sight-leaf when turned down.

Figure 2 is a rear end view of same.

Figure 3 is a part section through the action body showing how the forward end of the sight base engages under the charger bridge, and also showing in dotted lines how said forward end is disengaged in order to lift the base clear of the action body when it is desired to take out the bolt.

Figure 4 is a side elevation when the sight base is fully lifted for removing the bolt.

Figure 5 represents an end view with the sight base in its lifted position, the locking screw being shown detached at one side of the fitting.

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Figure 6 is a plan of the action showing the sight bed in its normal position for use.

Figure 7 is a corresponding view to Figure 6 but with the sight-bed lifted and extended for removal of the bolt.

5 Figure 8 shows a modified method of locking device for securing the base to the attachment arm when the sight is in use, in which it is not necessary to entirely remove any part.

Figure 9 is an end view of the action showing said locking device partly in section.

10 Referring to Figures 1 to 7 of the drawings, the improved sight mounting comprises a base or bed-plate *a*, which is shaped or curved upon its underside so that, normally, or when the rifle is in use (as in Figures 1 and 2) the said base will seat or saddle itself closely upon or over the bolt-guide portion *b*¹ of the action body *b* that comes between the loading aperture and the extreme rear end of the said body; the said base being of such a length that when in its normal position for use, it does not extend beyond the inner edge of the bolt-lever *c*¹, so that it will not interfere with the turning of the latter into its upright position prior to the opening of the bolt *c*. Sufficient clearance is provided upon the underside 20 of the base so as to admit of said bolt being drawn out or opened.

In the particular arrangement shown, the base carries a laterally-adjustable windgauge slide *d* to which is hinged the leaf *e* of the sight, which may be of any suitable type; or the base itself may be a non-traversing one but can be fitted with a sight leaf having any suitable form of traversing windgauge 25 adjustment. In fact any kind of leaf and any kind of slide may be used on the mounting. In order to admit of existing side-aperture fittings being used for securing the new mounting to the rifle, and also to provide for the attachment being swung out of the way of the bolt head *c*² when it is desired to take out the bolt, the left hand side of the base *a* is hinged by a screw, *f*¹ to the forward end of an arm or limb *f* whose rearward end is hinged to the action body at *f*² 30 by the ordinary side-aperture hinge pin. The complete mounting is held steady in either its normal or its lifted position by the ordinary side-aperture spring *g* which engages with notches in the jointed end of the arm *f*:

The forward end of the base *a* is provided with a nose or extension *a*¹ which is 35 adapted, when said base is in its position of use, to engage beneath the charger bridge *h*, as shown more clearly in Figure 3. When the base is in this position, the attachment arm *f* extends horizontally along the action body and by the side of the bed or base *a*, and said arm *f* and the bed are arranged to be locked together by means of a thumb screw *j* passing through a plain hole in the arm 40 and entering a wormed hole in the side of the base.

When it is desired to take out the bolt, the screw *j* is removed, the base *a* slightly tilted to disengage the nose *a*¹ (as shown in dotted lines Figure 3) and the arm *f* turned upwardly and rearwardly on its pivot so as to lift or 45 elevate the sight base *a* to such a height above the action body *b* as to give the necessary clearance for the bolt-head *c*², as in Figures 4 and 5; the same being retained in this position by the spring *g*. Instead of providing the bed with an extension which engages under the charger bridge for holding the attachment rigidly in position, the side limb *f* may be extended in the forward direction past the ejector screw hole *i* in the body and be provided with a retaining screw 50 that normally engages with said hole but is removed prior to swinging back the carrier arm for elevating the base or bed.

Further and if desired, the pin *f*² (Figure 1) may be made with a head suitable for securing the carrier arm to the body and retaining the base in its position of use without the retaining spring *g*.

55 In the modified locking device shown in Figures 8 and 9, a screwed headed shank *k* is carried by the side of the base *a* and extends through a vertical open-ended slot *f*³ in the arm *f*. Upon the outer end of the shank is a nut *j* which

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when tightened up bears upon the face of the arm *f* and locks the latter to the base. When the base is required to be lifted for the removal of the bolt, the nut *j* is slackened allowing the necessary relative movement between the arm and the base, the shank *k* leaving the slot *l* through the open end.

Although primarily adapted for application to rifles of the Lee-Enfield type having existing fittings for the attachment of side aperture-sights, the improved sight mounting may also be applied or adapted to other types of rifles by providing suitable means for hinging the rear end of the carrier arm to the side of an action body or other part of the rifle rearwards of the ordinary short-range back-sight mounting.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

First:—A sight mounting which is applicable to the rear end of the body of a bolt-action rifle and comprises a sight base or bed which extends across the bolt race and is jointedly carried by or attached to an arm or limb which is hinged to the body so as to be adapted to be turned upwards and to lift said sight base above the action body to give the necessary clearance for the removal or replacement of the bolt, substantially as herein described.

Secondly:—In a sight mounting such as claimed in Claim 1, the employment of means for locking the base to the hinged arm or limb when the sight is in its position for use, substantially as and for the purposes herein described and set forth.

Thirdly:—In a sight mounting such as claimed in Claim 1, providing the sight base with a nose or forward extension which is adapted to engage beneath the charger bridge, means being provided for locking the base to the hinged arm or limb when the nose is so engaged so as to prevent the said base being lifted, substantially as herein described and set forth.

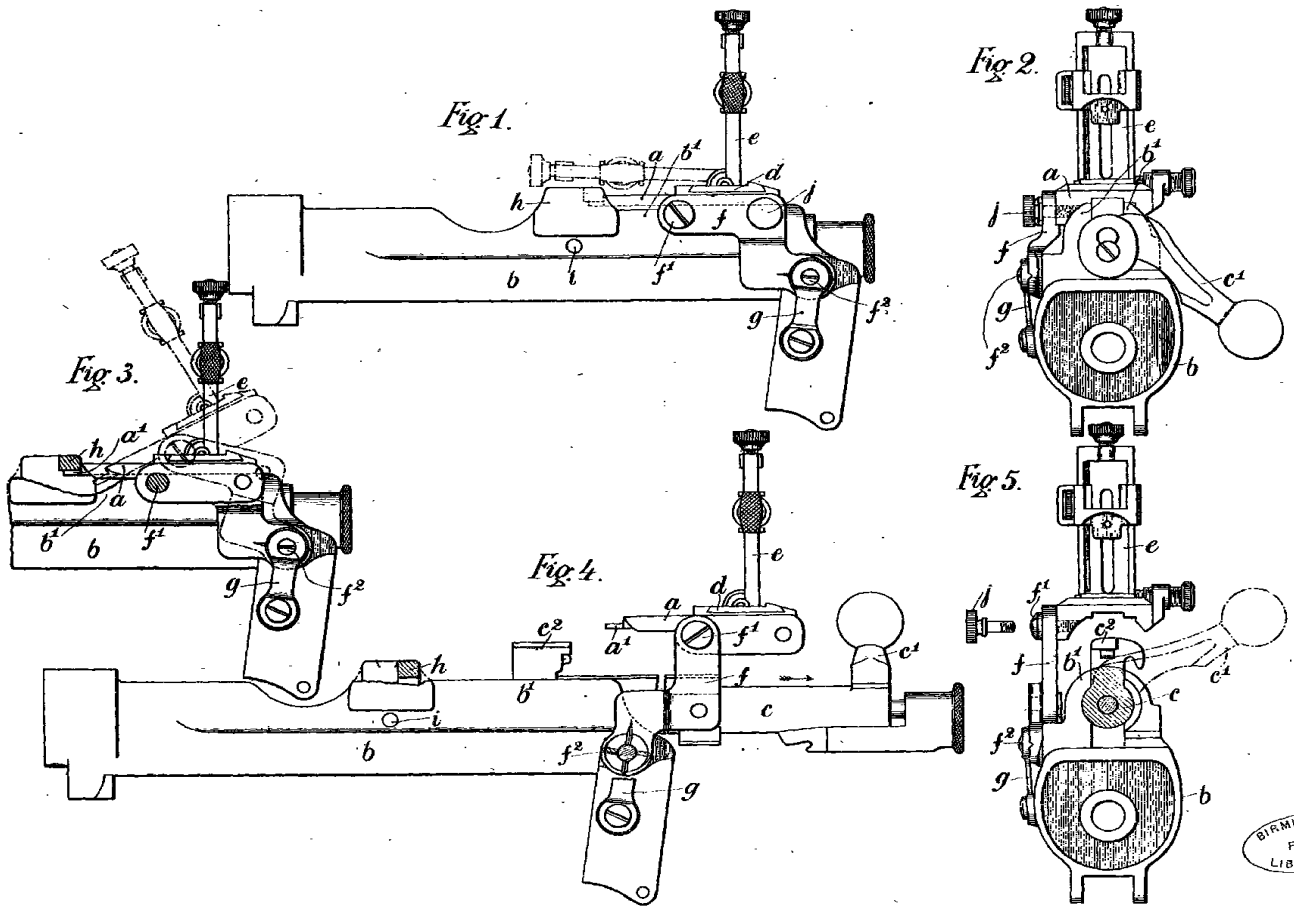
Fourthly:—The improved sight mounting and means of applying or attaching same, as represented in the accompanying drawings, in which the several parts are constructed and combined in the manner and for the purposes herein referred to.

Dated this 29th day of May, 1909.

LUKE RICKETTS TIPPINS.

By Henry Skerrett,
24, Temple Row, Birmingham,
Agent for Applicant.

[This Drawing is a reproduction of the Original on a reduced scale.]



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Fig. 1.

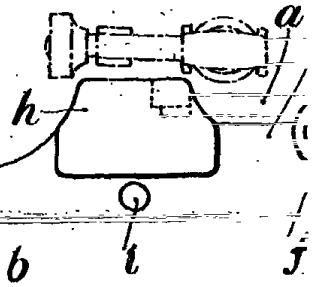


Fig. 3.

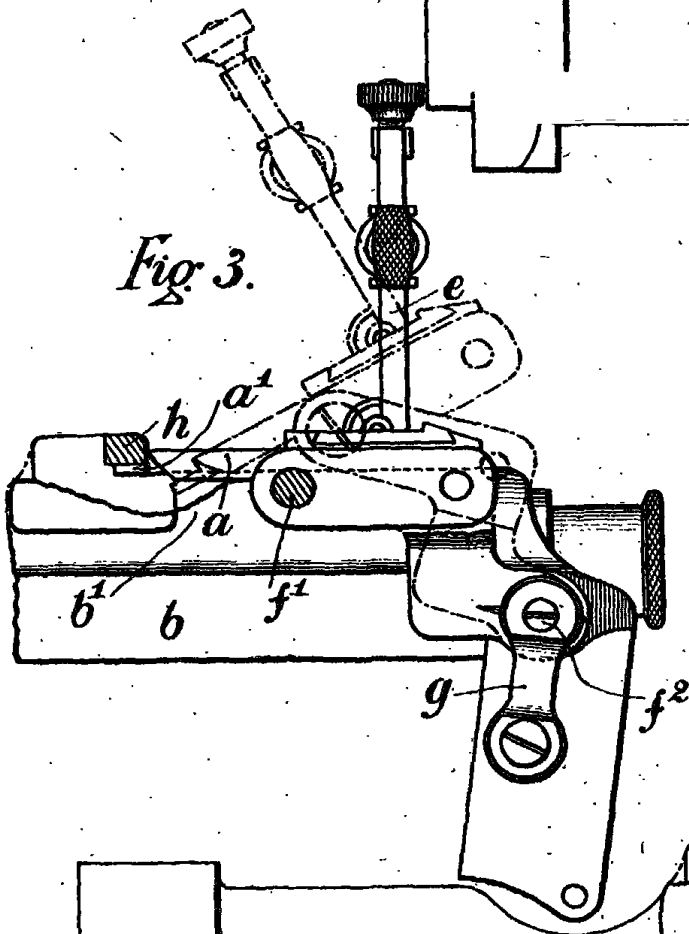


Fig. 4.

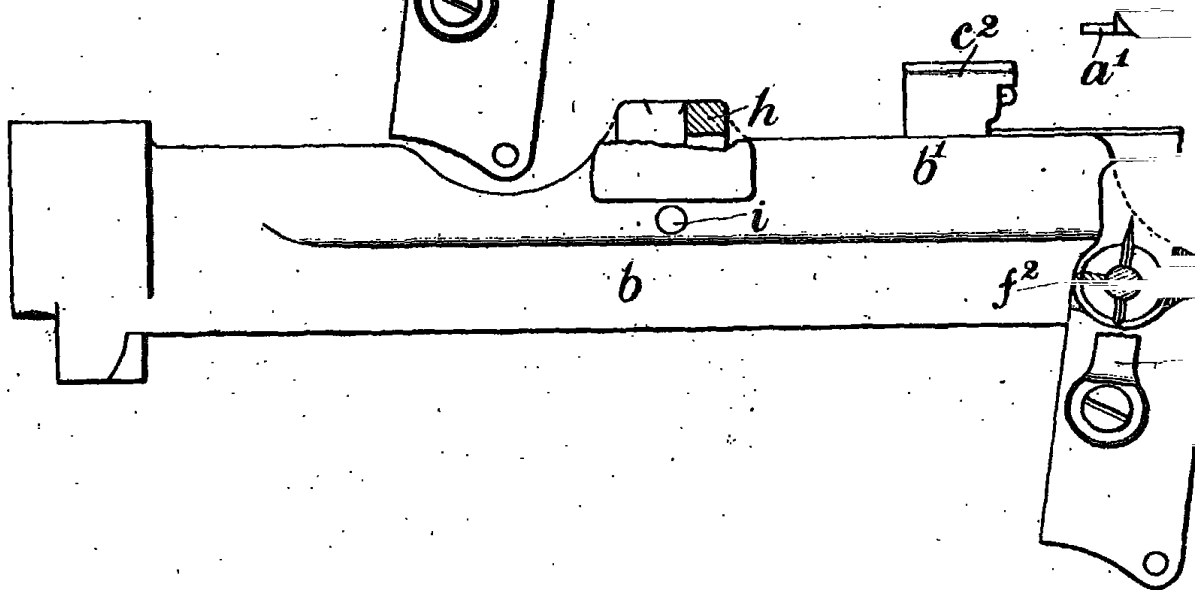


Fig 2.

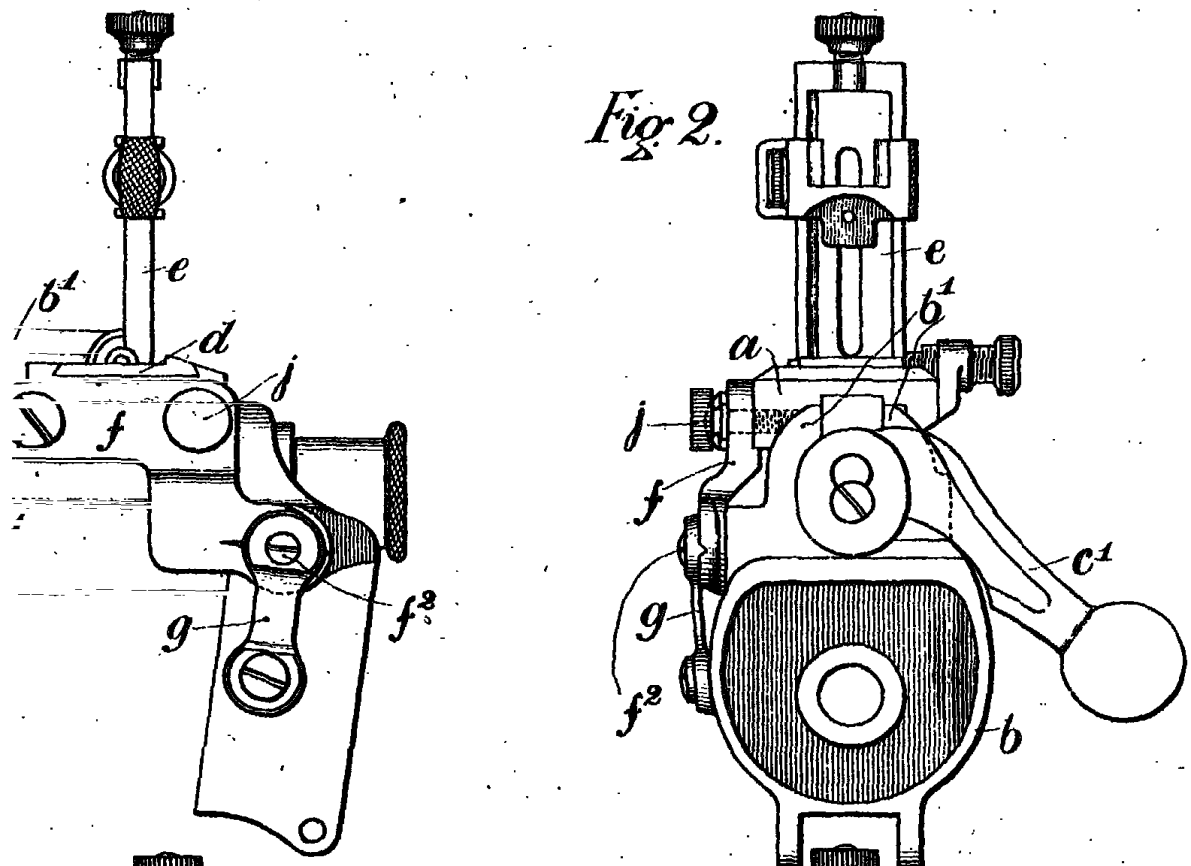
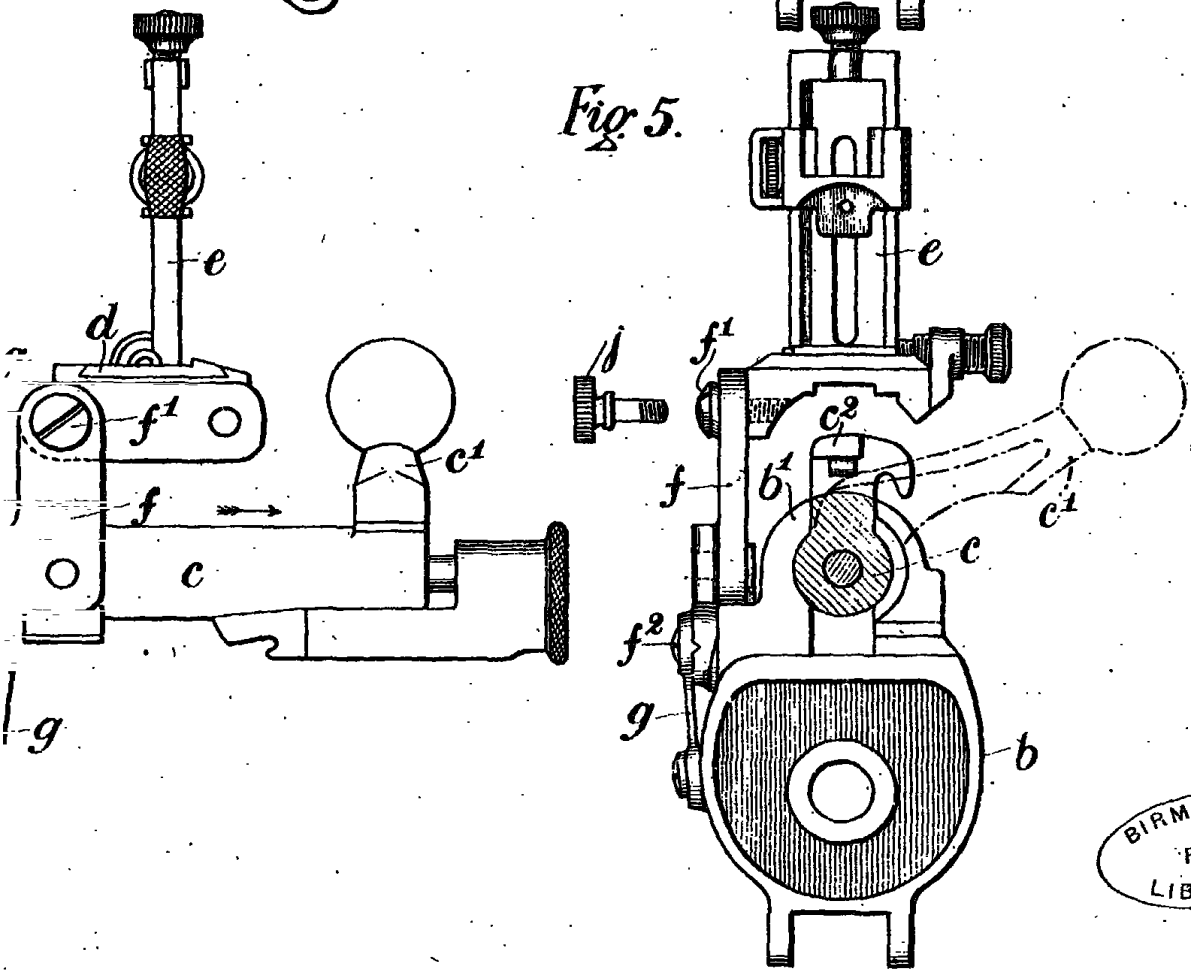


Fig 5.



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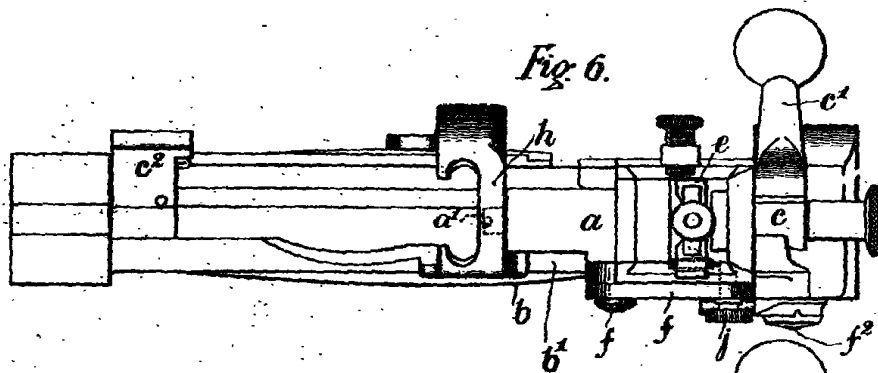


Fig. 6.

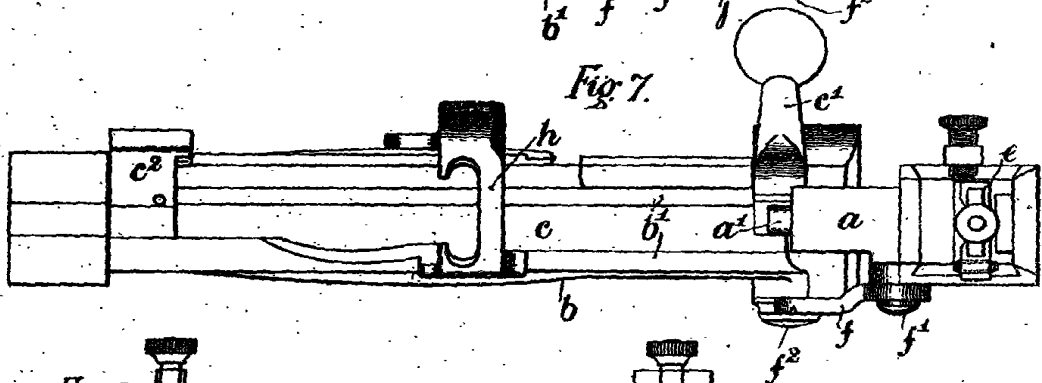


Fig. 7.

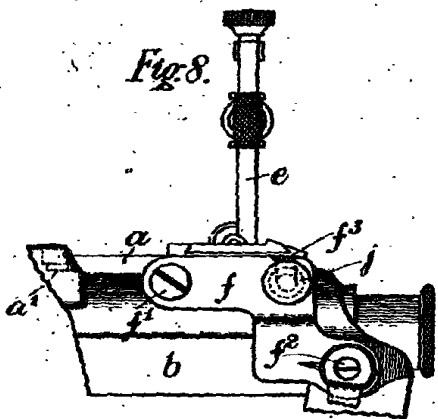


Fig. 8.

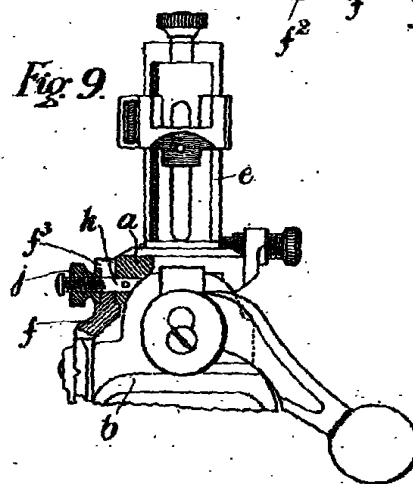


Fig. 9.

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