Oct. 18, 1932. H. T. BALMER 1,883,465

RIFLE SUPPORT

Filed Oct. 15, 1931



Fig. 1.

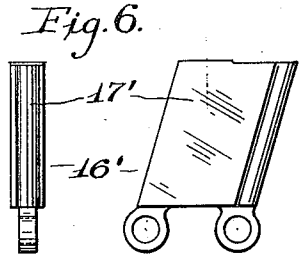


Fig. 6.

Fig. 7.

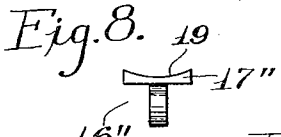


Fig. 8.

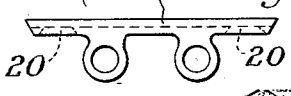


Fig. 9.

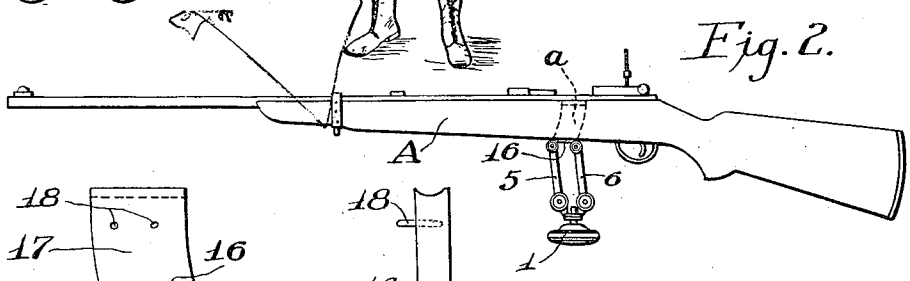


Fig. 2.

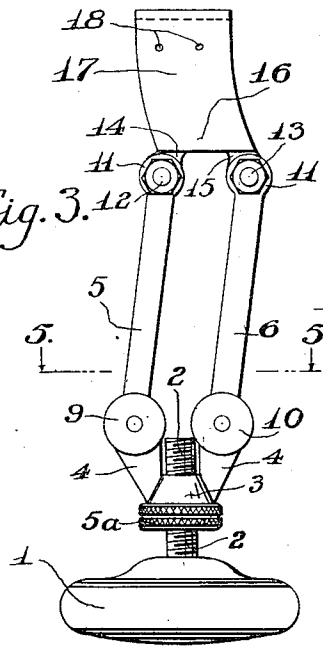


Fig. 3.

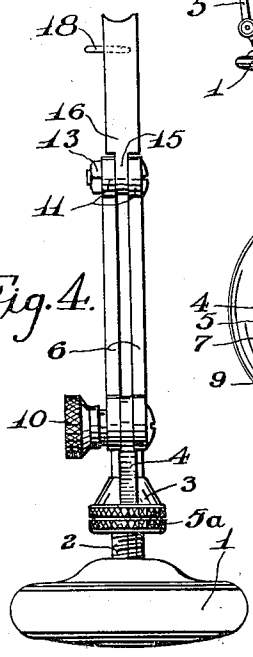


Fig. 4.

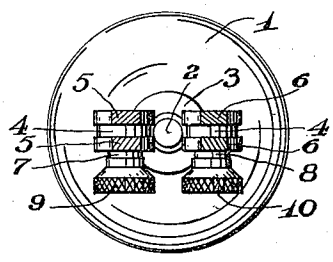


Fig. 5.

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Patented Oct. 18, 1932 1,883,465

UNITED STATES PATENT OFFICE

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RIFLE SUPPORT

Application filed October 15, 1931. Serial No. 568,897.

My invention is a gun support providing improved means for steadying a rifle during the aiming and firing thereof by permitting the rifleman to rest his arm supporting the gun back against his body so as to avoid strain and fatigue, and which comprises a knob or palm rest grasped by the extended hand of the gunner, a bracket engaging the rifle at a suitable position on the stock, and connecting means between the bracket and palm rest for varying the spacing and angular relationship of the bracket and palm rest, and consequently of the hand of the rifleman and the rifle.

In the preferred embodiment of my invention, the palm rest is shaped to form a curved knob having a threaded connection with a revoluble member to which is pivoted a pair of links having a pivotal connection with the stock-engaging bracket.

Locking means may be provided for securing the revoluble member relatively to the knob, and clamps may be provided to effectually prevent relative movements of the links and members with which they are connected after the same have been adjusted to a desired position. The characteristics of the bracket will vary with the particular type of rifle used, and several forms of brackets may be substituted for one another. Where a magazine rifle is used, the bracket preferably has a projecting head shaped to fit into the magazine recess and provided with latching devices adapted for coaction with the magazine retainer in the recess.

Where, however, the rifle used contains no magazine recess, or where it is desired to use the magazine, the bracket may be provided with a channeled upper surface for seating the stock and with apertures permitting the insertion of screws into the stock to secure it to the bracket.

The characteristic features and advantages of my improvements will further appear from the following description and the accompanying drawing in illustration thereof.

In the drawing, Fig. 1 shows a rifleman utilizing my invention in aiming a rifle; Fig. 2 is a side elevation of a magazine rifle having my invention applied thereto; Fig. 3 is an enlarged detached view of my improved support shown from the side opposite that shown in Fig. 2; Fig. 4 is an end view of the form of device shown in Fig. 3; Fig. 5 is a transverse sectional view on the line 5—5 of Fig. 3; Fig. 6 is an end elevation and Fig. 7 is a side view of a modified form of bracket adapted for use with a different type of magazine rifle; Fig. 8 is an end elevation and Fig. 9 is a side view of a modified form of bracket having a curved upper surface to receive the stock of a rifle.

As illustrated in the drawing, there is provided in the preferred embodiment of my invention a grip 1 preferably shaped in the form of a curved knob adapted to be comfortably supported on the palm and gripped by the fingers of the extended hand of a rifleman when his aiming arm rests against his body. A stem 2 is fixed in the knob 1 and has its projecting portion threaded for the engagement of a revoluble member or internally threaded hub 3 having apertured projecting wings 4. A knurled lock-nut 5*a* is threaded on the stem 2 between the knob 1 and the revoluble member 3, and may be jammed against the latter to prevent rotation thereof. Two pairs of links 5 and 6 are pivotally connected with the respective apertured wings 4 by threaded pintles 7 and 8 having thereon knurled nuts 9 and 10. When the nuts are loosened, the links may be rocked upon their pintles and positioned in desired angular relation to the knob, and when the knurled nuts are drawn up tight the links are securely fixed in their adjusted positions.

As illustrated in Figs. 1 to 5 inclusive of the drawing, the apertured ends 11 of the links 5 and 6 remote from the wings 4 have pivotally connected therewith by bolts and nuts 12 and 13 the apertured bosses 14 and 15 of a bracket 16. This bracket has a curved projecting head 17 adapted to fit into the magazine recess —*a*— in the stock of a rifle A, and the head is provided with pins 18 adapted for engagement by the usual magazine retainer in the recess —*a*—.

It will be understood that in the use of the device above described, the magazine is detached from the rifle and the head 17 is in-

serted in the magazine recess, where it is held by the engagement of the magazine retainer with the pins 18. The knob 1 is then rotated to feed the stem 2 into or out of the hub 3 and the spacing and angular relationship of the bracket 16 to the knob 1 is adjusted by rocking the links on their pintles. When the parts are so positioned as to provide a desired comfortable rest with the rifle in aiming position, the nuts on the stem 2 and on the pintles of the links are drawn up to clamp the parts in the desired adjusted position.

Figs. 6 and 7 show a bracket 16′ having apertured lugs for connecting it with the links 5 and 6, and a head 17′ so shaped as to fit into a magazine recess of different type.

As illustrated in Figs. 8 and 9, the bracket 16″ having apertured lugs, for pivotal connection with the links 5 and 6, is provided with a head 17″ extending axially of the rifle barrel and having a concave surface 19 forming a curved rest for the bottom of the gun stock which may be secured to the bracket by screws passed through the apertures 20 in the head.

Having described my invention, I claim:

1. A gun support comprising a grip, a bracket, and a pair of parallel members each pivotally connected with said grip and bracket and adjustable to vary the spacing and angular relation thereof.

2. A gun support comprising a knob, a bearing revoluble relatively to said knob, a stock-engaging bracket, and fulcrumed means connecting said revoluble device and bracket.

3. A gun support comprising a palm rest, a revoluble member having a threaded connection with said palm rest, means for fixing said member against rotation, a bracket, and a pivoted link connecting said bracket and revoluble member.

4. A gun support comprising a knob, a revoluble member, a screw connecting said knob and revoluble member, links pivotally connected with said revoluble member, and a bracket pivotally connected with said links.

5. A gun support comprising a knob, a revoluble member, a screw connecting said knob and revoluble member, a pair of parallel links pivotally connected with the revoluble member, a bracket pivotally connected with said links and means for connecting said bracket with a stock.

6. A gun support comprising a knob having a threaded stem, a member revoluble on said stem, a locking device revoluble on said stem for securing said member against rotation, a bracket adapted for engaging a stock, and links connecting said revoluble member with said bracket, said links being adjustable relatively to said revoluble member and bracket.

7. A gun support comprising a grip, links adjustably connected with said grip, a bracket adjustably connected with said links and having a projecting part suitable for insertion in a magazine recess, said projecting member having means for engaging a magazine retainer in said recess.

8. A gun support comprising a grip, links adjustably connected with said grip, a bracket adjustably connected with said links and having a channeled upper surface, said bracket containing apertures for the passage of devices securing a stock thereto.

In witness whereof I have hereunto set my hand this 10th day of October, 1931.

HARRY T. BALMER.