No. 669,871.

Patented Mar. 12, 1901.

J. N. ZOELLER.

ADJUSTABLE GUN STOCK.

(No Model.)

(Application filed Aug. 20, 1900.)

Fig. 1

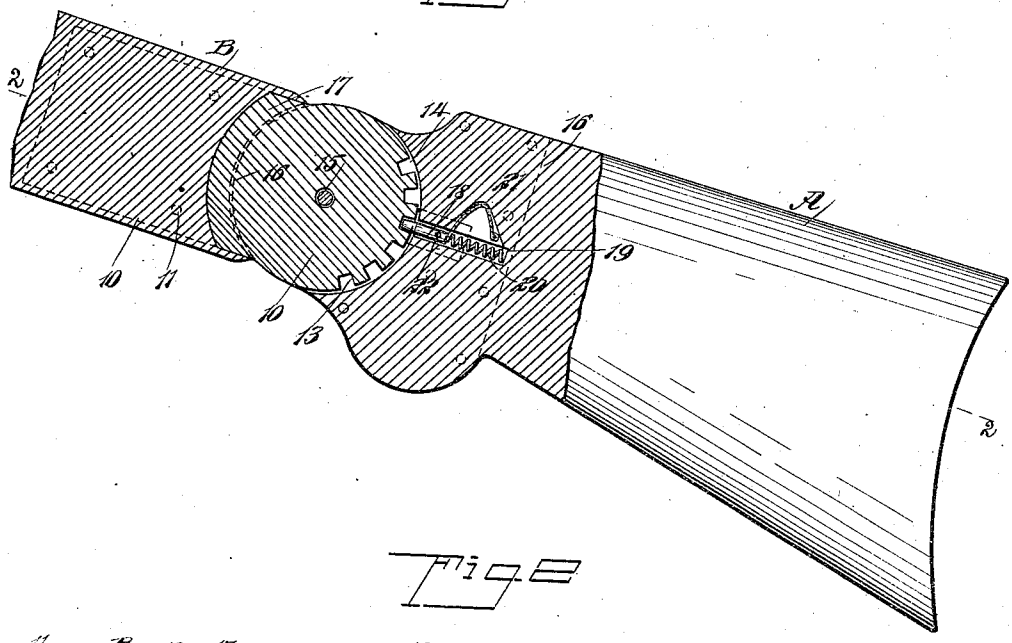


Fig. 2

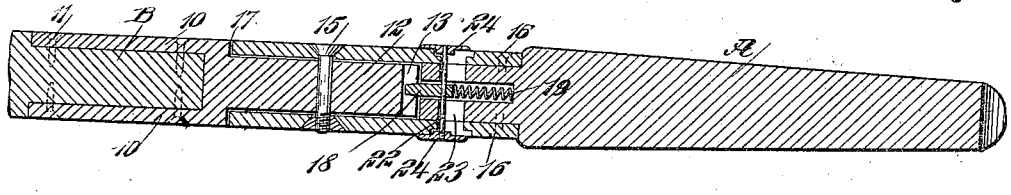
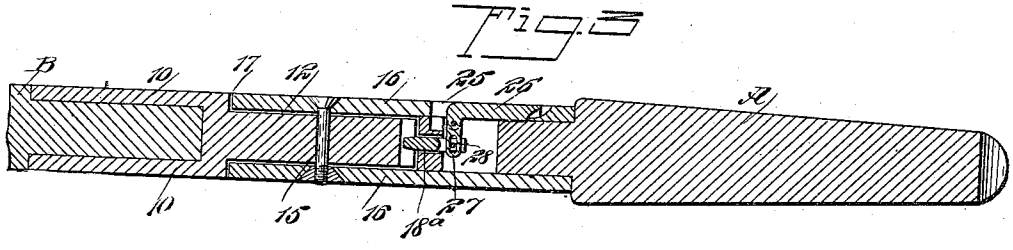


Fig. 3



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UNITED STATES PATENT OFFICE.

JOSEPH N. ZOELLER, OF ST. MATTHEWS, KENTUCKY.

ADJUSTABLE GUN-STOCK.

SPECIFICATION forming part of Letters Patent No. 669,871, dated March 12, 1901.

Application filed August 20, 1900. Serial No. 27,443. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH N. ZOELLER, a citizen of the United States, and a resident of St. Matthews, in the county of Jefferson and State of Kentucky, have invented a new and Improved Adjusting Attachment for Gun-Stocks, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide an attachment for gun-stocks by which the stock may be changed and locked to any desired angle, thus enabling one gun to be adapted for various purposes for which heretofore guns with straight stocks or with different inclinations of stocks have been deemed necessary for effective service.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a partial vertical longitudinal section through a part of a gun-stock, including the grip and the attachment, the latter being shown applied. Fig. 2 is a horizontal longitudinal section, taken practically on the line 2 2 of Fig. 1; and Fig. 3 is a section similar to Fig. 2, illustrating, however, a slight departure in the construction of some parts of the attachment.

A represents the stock of a gun, and B the grip. A plate 10 is countersunk in each side face of the grip, being secured thereto by screws 11 or their equivalents, and these plates extend to the rear of the grip B, where they are connected by an adjusting-head 12. This head is preferably of a thickness corresponding to the width between the plates 10, as shown in Figs. 2 and 3.

The adjusting-head 12 is semicircular and is provided in its periphery, particularly at the rear, with teeth 13. The adjusting-head is loosely fitted in a correspondingly-shaped chamber 14, made in the forward portion of the stock A, and a pivot-pin 15 is passed through the central portion of the adjusting-head and through side plates 16, countersunk in the side faces of the forward portion of the stock A. Each of the stock side plates 16 is shaped at its forward end to conform to the shape of the adjusting-head, and these forward portions of the stop-plates 16 have bearing against the side faces of the adjusting-head and turn on the pivot-pin 15 in the recesses formed by the reduction in width of the adjusting-head over the thickness of the grip, which reduction forms guide-shoulders 17 where the outer faces of the adjusting-head connect with the grip side plates 10, as shown in Figs. 2 and 3.

A bolt 18 is adapted to enter any of the spaces between the teeth 13 on the adjusting-head, and this bolt is held to slide in a suitable channel 19, produced in the stock A. The bolt 18 is normally held between the teeth of the adjusting-head by a coil-spring 20, which has bearing against the inner end of the bolt, and a second spring 21 of a bow character. The two springs are provided in order that severe strain will not be sustained by either. The bolt is carried out of engagement with the adjusting-head by passing a pin 22 through the bolt and out through a transverse channel 23 made in the stock A and the side plates 16 of the stock, as illustrated in Fig. 2, and buttons 24 are preferably attached to the ends of the pin 22.

When it is desired to change the inclination of the stock with reference to the barrel, the pin 22 is slid rearward, thus carrying the bolt 18 from engagement with the adjusting-head, and after the grip has been moved to give the necessary inclination to the barrel or to render the barrel straight with the stock the bolt is released and will enter the most convenient space between the teeth 13 and hold the grip and stock in their adjusted position.

In Fig. 3 a bolt 18^a, which corresponds to the bolt 18 shown in the other figures, is operated through the medium of an angle-lever 26, and this angle-lever is fulcrumed in a recess 25 made in one of the stock side plates 16. The inner end of the lever 26 has an elongated slot 27 made therein, which slotted end of the lever enters a suitable opening in the bolt 18^a and is connected with the bolt by a pin 28 or a like device. When the outer portion of the lever 26 is within the opening 25, the bolt 18^a is in locking position relative to the adjusting-head; but when an adjust-

ment is to be made the outer member of the lever 26 is pulled laterally outward, thus carrying the bolt 18^a out from engagement with the adjusting-head.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a gun, a stock and a grip, an adjusting-head pivoted within the stock and attached to the grip, the head being provided with peripheral teeth, a bolt held to slide in the stock and enter the spaces between the teeth in the adjusting-head, and means, substantially as described, for manipulating the said bolt at the exterior portion of the stock, for the purpose specified.

2. The combination with the stock and grip-section of a gun, of plates fitted to the rear end portion of the grip-section, a semicircular adjusting-head forming a portion of and connecting said plates and pivotally mounted in a chamber in the stock, the said adjusting-head being provided with peripheral teeth at its rear, a bolt held to slide in the stock-section and enter the spaces between the teeth of the adjusting-head, and a manipulating device for the bolt which device is passed to the outside of the stock and may be operated at the said outer surface of the stock as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH N. ZOELLER.

Witnesses:
PETER J. ZOELLER,
JOSEPH F. ZIEGLER.