

W. C. ROGERS.
 SUPPLEMENTAL STOCK FOR SMALL ARMS.
 APPLICATION FILED MAY 4, 1918.

1,276,572.

Patented Aug. 20, 1918.

2 SHEETS—SHEET 1.

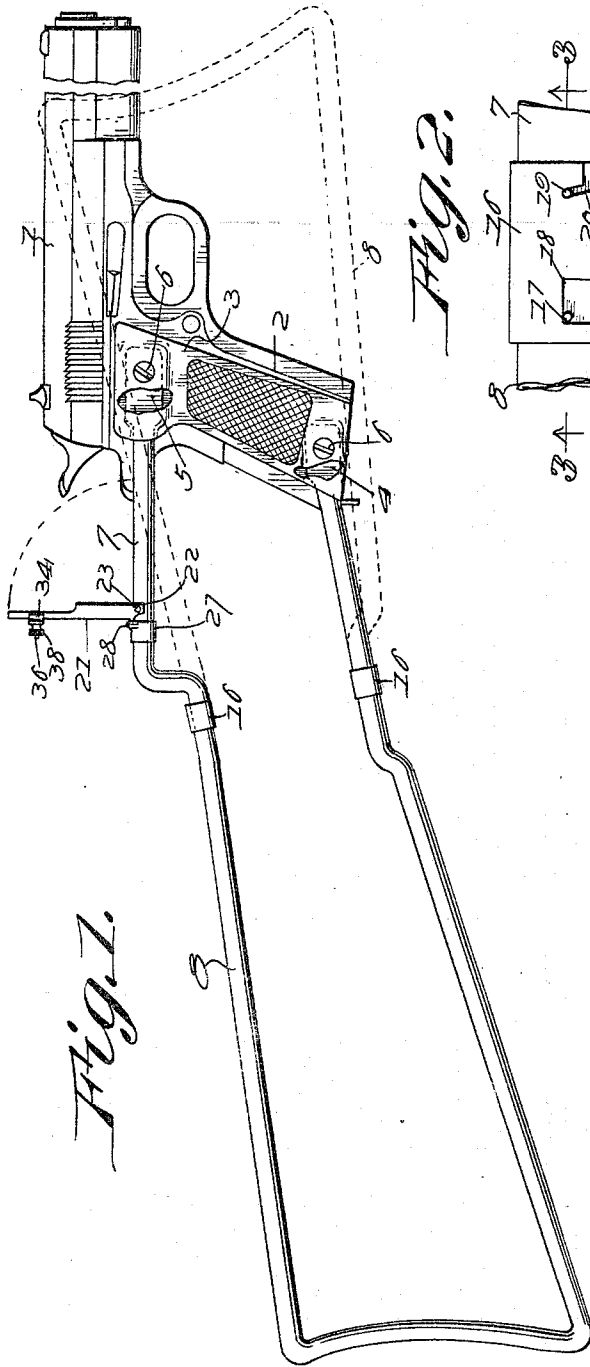


Fig. 2.

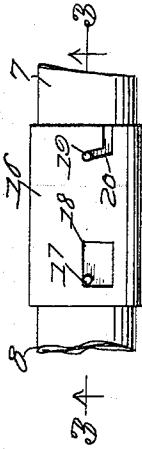


Fig. 3.

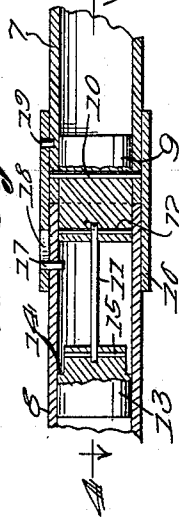
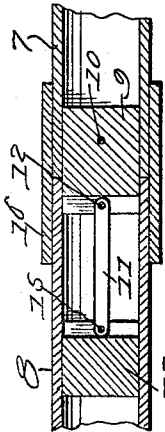


Fig. 4.



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2 SHEETS—SHEET 2.

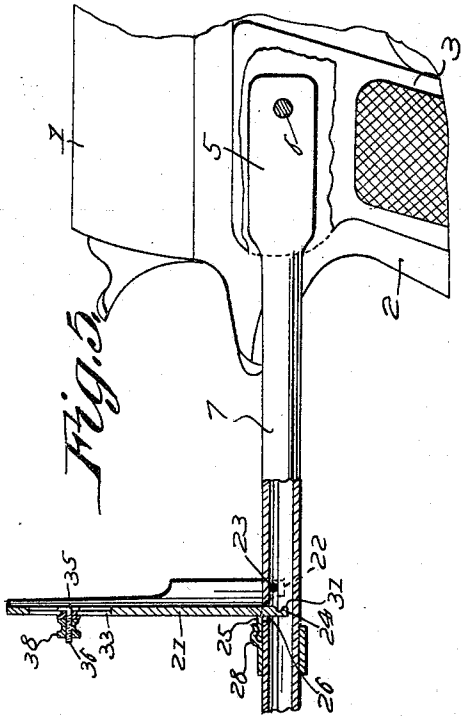


Fig. 5.

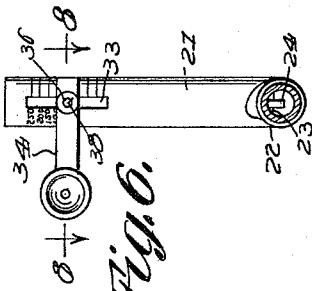


Fig. 6.

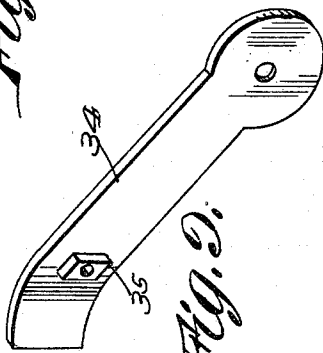


Fig. 9.

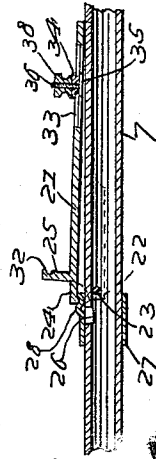


Fig. 7.

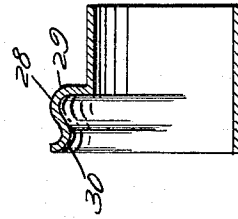


Fig. 11.

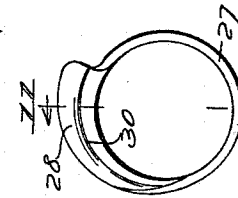
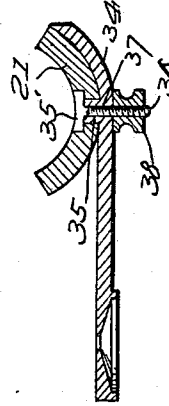


Fig. 10.

Fig. 8.



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UNITED STATES PATENT OFFICE.

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SUPPLEMENTAL STOCK FOR SMALL-ARMS.

1,276,572.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM C. ROGERS, a citizen of the United States, residing at Fort Sheridan, in the State of Illinois, have
5 invented new and useful Improvements in Supplemental Stocks for Small-Arms, of which the following is a specification.

The invention has for its principal purpose the provision of a supplemental stock
10 for small arms, such as pistols, revolvers and the like, whereby such small arms may be converted into carbines.

The supplemental stock comprises an open frame designed for attachment to the stock
15 of the small arm, the frame being formed in two sections which are hingedly or pivotally connected together, so that the frame may be broken substantially at the longitudinal center of the combined unit, that is the
20 frame and its attendant small arms unit, so that the device when not in use, may be folded up to require but a small amount of space. Carried by the frame, there is a rear sight, the support for which may be folded
25 down against the frame or elevated to a position at right angles thereto, the support having associated with it a sleeve member designed to securely hold it in either of these two positions. The rear sight is ad-
30 justable vertically on the support to provide for its proper regulation with reference to the fore sight when it is desired to shoot a prescribed distance.

The invention is illustrated and described
35 in a specific embodiment, to which, however, it is not to be restricted. The right is reserved to make such changes or alterations as the actual reduction to practice may suggest, in so far as such changes or alterations
40 are compatible with the spirit of the subjoined claims.

The same numerals of reference designate the same parts throughout the several views of the drawing, wherein:

45 Figure 1 is a view in side elevation showing the application of the invention to a small arm of the automatic type, the position of the whole unit when folded being indicated in dotted lines.

50 Fig. 2 is a plan view of a portion of the open frame, looking from above in Fig. 1.

Fig. 3 is a section on the line 3—3 of Fig. 2.

Fig. 4 is a section on the line 4—4 of Fig. 3.

Fig. 5 is a detail view partly in elevation

and partly in section showing the rear sight support in elevated position.

Fig. 6 is a view partly in section and partly in elevation looking at the sight and
60 its support from the rear.

Fig. 7 is a detail sectional view similar to the section shown in Fig. 5 but showing the sight support in lowered position.

Fig. 8 is a section on the line 8—8 of
65 Fig. 6.

Fig. 9 is a perspective view of the rear sight *per se*.

Fig. 10 is an elevational view of the sleeve member employed for retaining the sight
70 support in either elevated or lowered position.

Fig. 11 is a section on the line 11—11 of Fig. 10.

For the purpose of illustrating the in-
75 vention, it is shown applied to a small arm 1 of the automatic type and provided with the usual stock 2 from which one of the wooden hand grips has been removed and replaced by a stamped metal hand grip 3
80 which is appropriately secured to the stock 2. The supplemental stock comprising a part of the invention is attached between this stamped metal hand grip 3 and the stock 2. It is made preferably of tubular
85 material, and the ends which are secured to the hand grip are flattened as indicated at 4 and 5, so that appropriate screws 6 may serve to attach the stock to the hand grip and secure it and the latter to the stock of
90 the small arm 1. Being made as shown, the supplemental stock constitutes an open frame and comprises the sections 7 and 8, the latter being appropriately formed at its extreme end for comfortable engagement
95 with the shoulder of the user. The section 8 is designed to be folded over against the section 7 and the arm to which the latter is attached, when the device as a whole is not
100 in use and the means permitting this folding over comprises a unique hinge connection about to be described. Since the supplemental stock is formed of tubular material, the unique hinge members are contained within the same. In each leg of the
105 section 7 there is carried a plug 9 which is rigidly held therein by a transversely disposed pin 10. The plug 9 projects beyond the end of the leg and in this projecting end carries a link 11 which is
110 rectangular in cross section and pivotally engages with a pin 12 which is inserted

transversely through the plug 9 and crosses a recess cut in the end of the latter and into which one end of the link 11 is inserted. Both legs of the section 7 are thus provided and the two legs of the section 8 engage the rear ends of these hinge members each of which is in the form of a plug member 13 slidably held in the leg of the section 8. At one end the plug 13 is reduced in diameter thus providing a shoulder 14 and at the extremity of this reduced portion a transversely disposed pin 15 is inserted, crossing a slot formed in the end of the plug and pivotally engaging the rear end of the link 11 which enters the slot. Since the plugs 13 are movable longitudinally in the legs of the section 8, the latter may be moved longitudinally with respect to the section 7, so that the extreme ends of the legs of the section 8 may be made to engage over the projecting ends of the plugs 9, and means is provided for retaining them in such an engagement. This means comprise sleeve members 16 carried by the legs of the section 8 on which they are permitted a limited longitudinal movement and also a limited amount of angular movement, pins 17 being inserted in the legs of the sections 8 and projecting into and out of the latter, the outwardly projecting portions entering rectangular shaped openings 18 whose length describes the amount of longitudinal movement permitted the sleeves and whose width describes the amount of angular movement. When the legs of the section 8 are made to engage the projecting ends of the plugs 9, the sleeve members 16 are designed to engage pins 19 carried by the legs of the section 7 and to this end the sleeve members are formed with bayonet slots 20 at the ends remote from those adjacent where the openings 18 are formed, the transverse portions of the bayonet slots being diagonally disposed, so that when the limited angular movement is imparted to the sleeve members 16 they may be moved slightly in a longitudinal direction during such angular movement. Obviously this is for the purpose of having the connecting legs of the two sections of the supplemental stock drawn tightly together. When the sleeve members 16 are engaged with the pins 19, the two sections of the supplemental stock are secured together in extended position, but when the sleeve members are disengaged from the pins 19, it is for the purpose of permitting the section 8 of the stock to be folded over as shown in dotted lines in Fig. 1. This is made possible because of the plugs 13 being slidable in the legs of the section 8. With the sleeve members disengaged from the pins 19 the section 8 may be drawn away from the section 7, the legs of the former section being disengaged from the projecting ends of the plugs 9, and the

plugs 13 sliding toward the ends of the legs of the section 8 until the shoulders 14 abut the inwardly projecting ends of the pins 17. Thereupon the section 8 may be folded over as described, since the links 11 provide the necessary hinged connections for this purpose.

On the upper leg of the section 7, there is carried a rear sight support 21 which is made arcuate in cross section and formed at one end with ears 22 which straddle the upper leg of the section 7 and are pivotally carried thereby on the pins 23. The sight support is provided with a tongue 24 in alignment with its length and further provided with a tongue 25 at right angles to its length. Since the sight support is designed for elevation to a right-angular position with reference to the attendant leg of the section 7 on which it is mounted, a slot 26 is provided in the leg of the section 7 through which the tongue 24 may pass when the sight support is elevated as described. In elevated position the tongue 25 is brought against the leg of the section 7 and in order that the sight support may be locked in this elevated position a ring member 27 is provided. This ring member loosely surrounds the leg on which the sight support is mounted and for a specified portion of its periphery is expanded beyond the normal radius of the ring, thus providing a cam portion 28. This cam portion 28 is crimped so that it simulates an S in cross section, so that there is provided an outwardly projecting bead or corrugation 29 and an inwardly projecting bead or corrugation 30 which are restricted only to the cam portion and exist in no other part of the ring. The tongue 24 is recessed on its end face so as to leave a projection 31 at its extreme end while the tongue 25 is recessed on its upper face to leave a similar but oppositely disposed section 32 on its extreme end. When the sight support 21 is elevated, the tongue 25 lies against the leg of the section 7 on top of the latter and the ring member 27 may be moved longitudinally along the leg when the highest part of the cam portion 28 may pass over the end of the tongue. Thereafter an angular movement imparted to the ring member 27 will cause the lower part of the cam portion to be brought into contact with the upper edge of the tongue 25, and the projection 32 of the latter will be contacted with by the inner face of the corrugation 29. Continued angular movement imparted to the ring member 28 will serve to effect a firm clamping operation of the tongue 29 and the projection 32 will preclude the possibility of any longitudinal movement of the ring, so that the sight support 21 is held in elevated position and the ring member 27 prevented from disengagement therefrom. The sight support 21 is

secured in the lower position in substantially the same way. When folded down against the leg of the section 7, its tongue 24 is brought to a position where it may be engaged by the cam portion of the ring 27, but in this instance the projection 31 of the tongue engages against the outer face of the corrugation 30, thus securing the sight in lowered position and retaining the ring 27 in position in substantially the same way that it is retained when the sight support is in elevated position.

Adjacent the upper end the sight support is provided with a longitudinal slot 33 and the rear sight 34 is provided with a transversely disposed rib 35 which slidably engages in this slot, the sight support being counter-slotted on the front face so that there may be carried by the support a block member 35 provided with a screw stud 36 which projects through a hole 37 formed in the rib 35 and in the sight and receives against the rear face of the latter a knurled or milled nut 38. The sight support 33 adjacent the longitudinal edges of the slot is suitably calibrated to permit the intelligent adjustment of the sight relative to the sight support for the obvious purpose of regulating the sight for the shooting of various distances.

From the foregoing description and the accompanying drawings, it is believed that the construction and operation of the invention will be clearly apparent and further description is, therefore, omitted.

The invention having been described, what is claimed as new and useful is:—

1. In a supplemental stock for fire-arms, an open tubular frame comprising two sections formed with interconnecting legs, plugs fixedly held in the legs of one section, other plugs loosely engaging in the legs of the other section, connections between the plugs of the one section and those of the other section, and means carried by the legs of one section and engageable with the legs of the other section whereby the two sections are rigidly connected together.

2. In a supplemental stock for fire-arms, an open tubular frame comprising two sections formed with inter-connecting legs, plugs fixedly held in the legs of one section

and projecting beyond the ends of said legs, other plugs loosely held in the legs of the other section, the legs of said other section being engageable with the projecting ends of the plugs in the legs of the first said section, hinged connections between the plugs in the legs of the two sections, and means carried by the legs of the second said section and engageable with the legs of the first section whereby the said sections may be rigidly connected together.

3. In a supplemental stock for fire-arms, an open tubular frame comprising two sections formed with inter-connecting legs, plugs fixedly held in the legs of one section and projecting beyond the ends thereof, other plugs loosely carried in the legs of the other or second said section, the legs of the said second section at their extremities being engageable with the projecting ends of the said fixed plugs, sleeve members carried by the legs of the said second section, pins carried by the legs of the said second section and projecting interiorly and exteriorly thereof, the loose plugs being formed with shoulders for engagement with the interior projections of the pins, the sleeve members being formed with rectangular shaped openings into which the exterior projections of the pins project, the sleeve members being further formed with bayonet slots at the ends remote from the rectangular shaped openings, and pins carried by the legs of the first said section for engagement with the bayonet slots for the useful purpose specified.

4. The combination with a fire-arm having a hand grip, of a supplemental stock therefor, and common means for securing said hand grip and supplemental stock to the stock of said fire-arm when replacing the hand grip with the supplemental stock.

5. The combination with a fire-arm, of a supplemental stock therefor, a stamped metal plate, the fire-arm having a stock and screws for securing the usual hand grip thereto, and the said screws passing through the stamped metal plate and through the supplemental stock for securing the same for replacing the hand grip.

In testimony whereof I affix my signature.
WILLIAM C. ROGERS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."