

W. L. MARBLE.

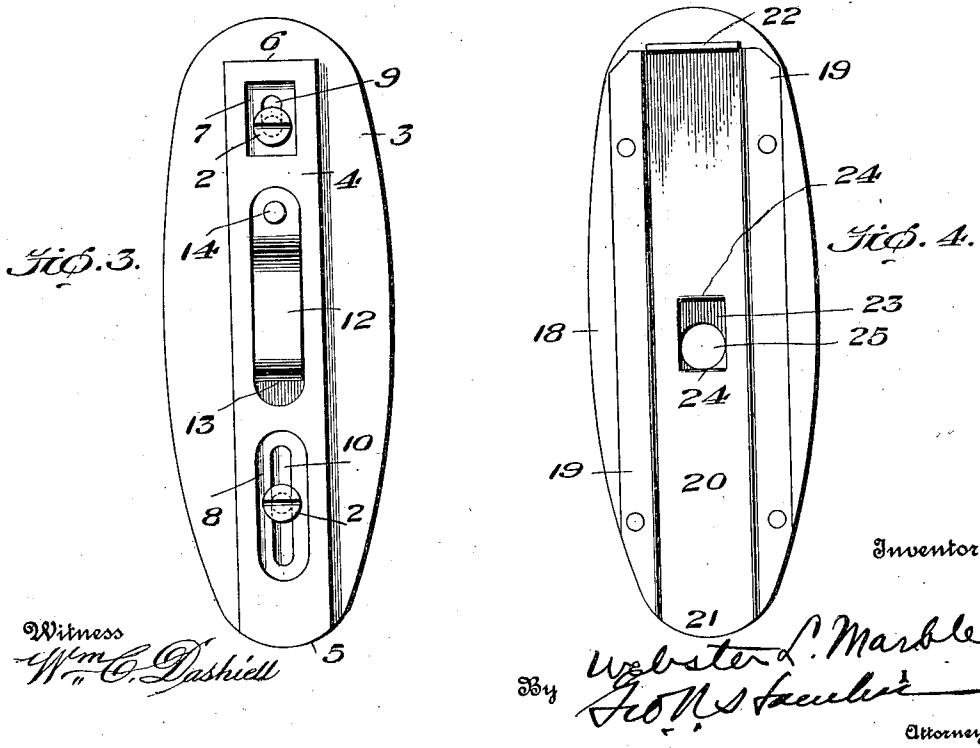
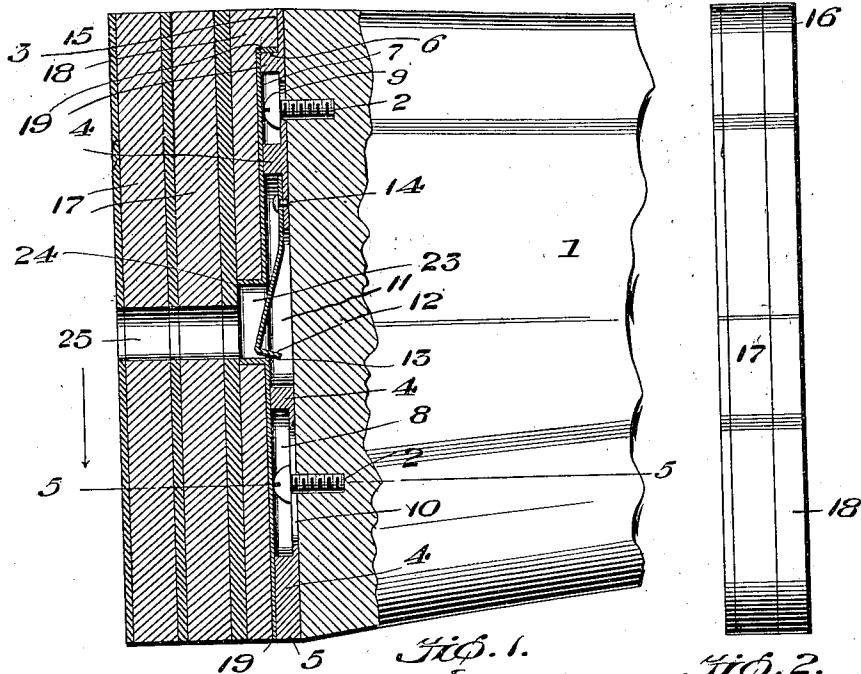
DETACHABLE AND INTERCHANGEABLE BUTT PIECE FOR FIREARMS.

APPLICATION FILED APR. 5, 1919.

1,331,074.

Patented Feb. 17, 1920.

4 SHEETS—SHEET 1.



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DETACHABLE AND INTERCHANGEABLE BUTT PIECE FOR FIREARMS.

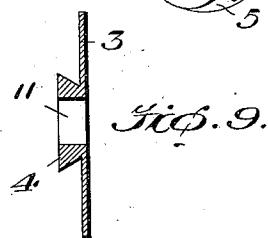
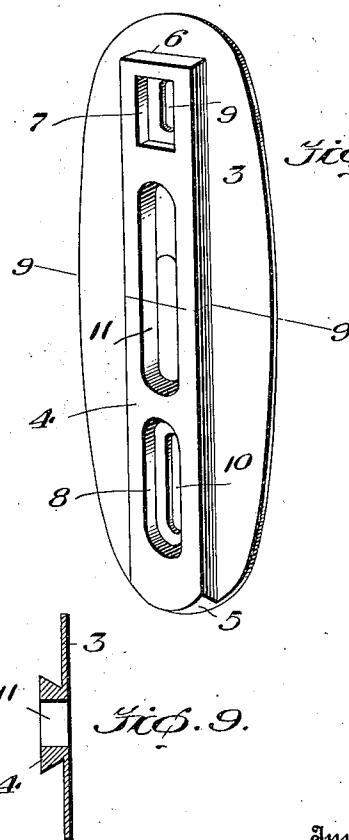
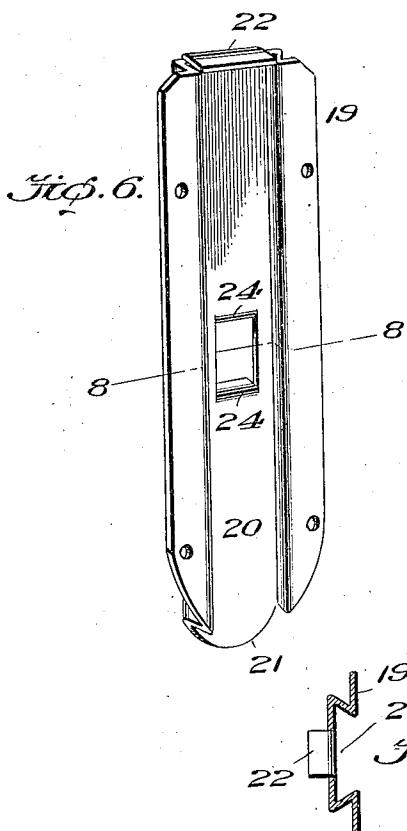
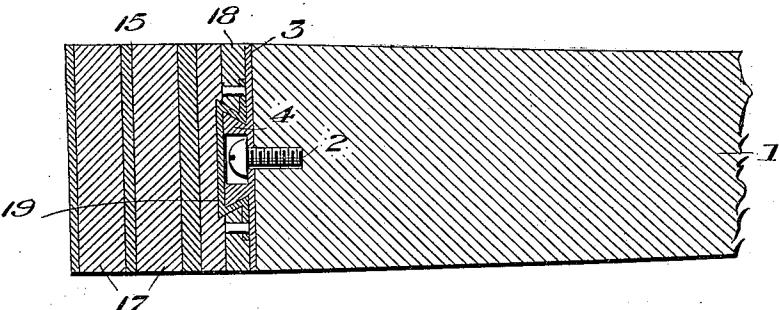
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4 SHEETS—SHEET 2.

FIG. 5.



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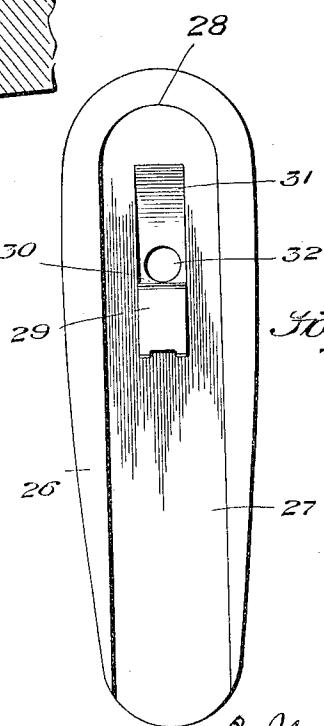
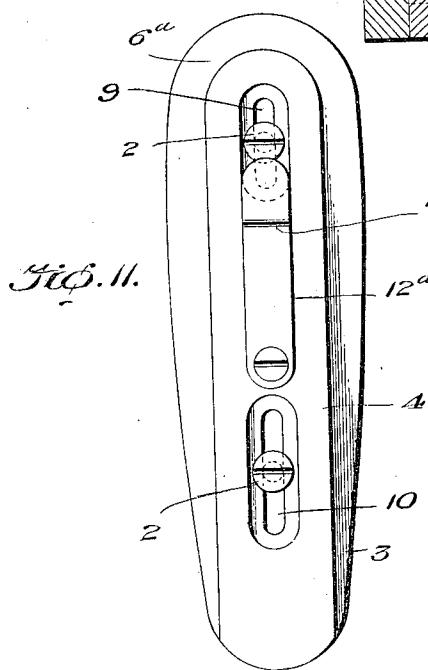
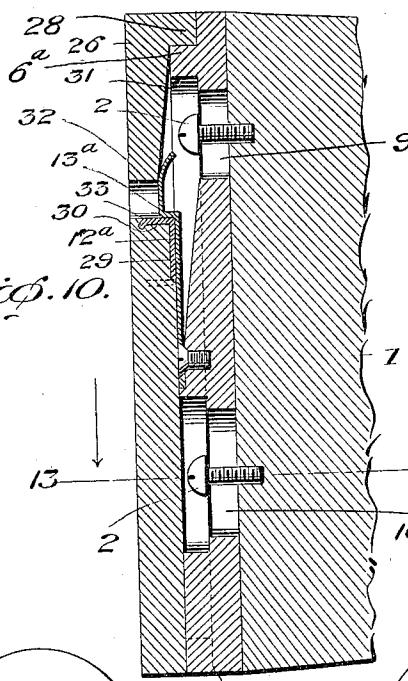
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4 SHEETS—SHEET 3.



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DETACHABLE AND INTERCHANGEABLE BUTT PIECE FOR FIREARMS.  
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4 SHEETS—SHEET 4.

FIG. 13.

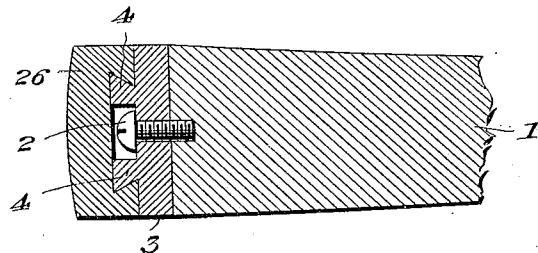


FIG. 14.

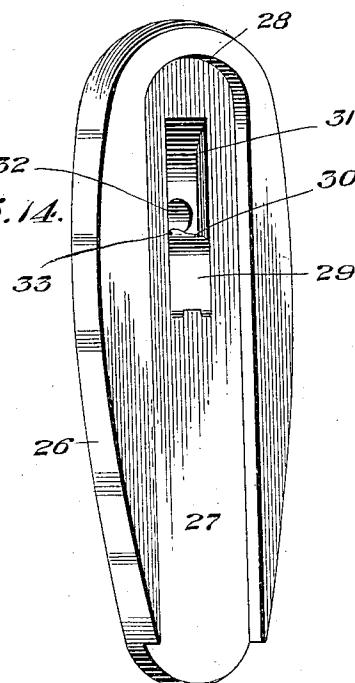
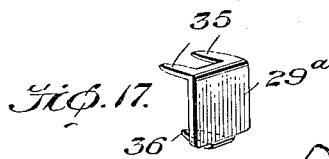
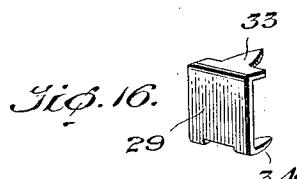
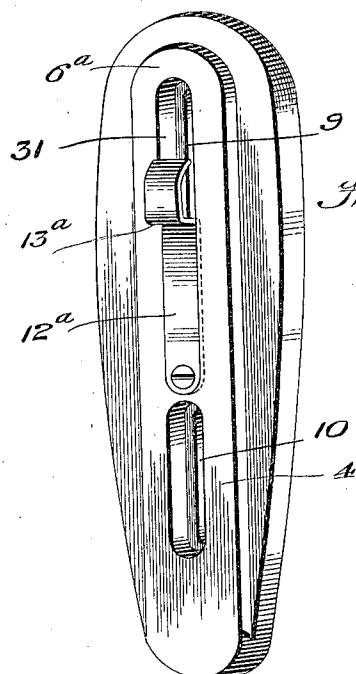


FIG. 15.



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# UNITED STATES PATENT OFFICE.

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## DETACHABLE AND INTERCHANGEABLE BUTT-PIECE FOR FIREARMS.

1,331,074.

Specification of Letters Patent. Patented Feb. 17, 1920.

Application filed April 5, 1919. Serial No. 287,736.

To all whom it may concern:

Be it known that I, WEBSTER L. MARBLE, a citizen of the United States, residing at Gladstone, in the county of Delta and State 5 of Michigan, have invented certain new and useful Improvements in Detachable and Interchangeable Butt-Pieces for Firearms, of which the following is a specification.

Experienced shooters consider it extremely 10 important that a certain fixed length of reach between the shoulder and the trigger of a gun be maintained. According to weather conditions and locality, a hunter, or other shooter, changes from light to heavy 15 clothing, or vice versa, which varies the length of reach between the shoulder and the trigger, and tends to disturb the handling of the piece, the ease of the shooter, and the proper trigger pull.

The present invention has for its object 0 the provision of means whereby the shooter may compensate for differences in reach when changing from light to heavy clothing, or the reverse.

With the foregoing object in view, the invention contemplates the provision of novel detachable and interchangeable butt pieces or plates, with or without a recoil pad, for the end of the stock of a fire arm, whereby a butt piece, of the proper thickness, with or without a recoil pad or cushion, may be quickly and easily applied to the butt end of the stock to afford the requisite length of the gun stock to enable the shooter to meet varying conditions due to changing from light to heavy clothing, and the reverse.

My invention consists, first, of a fire arm whose stock is provided with attaching means at its butt, in combination with detachable and interchangeable butt plates or pieces, with or without recoil pads or cushions, whereby a butt plate or piece of the desired thickness may be applied to the stock; second, a fire arm whose stock is provided with a novel attaching butt member which is constructed so that the usual screws which hold the ordinary or common butt plate, may, on the removal of the ordinary or common butt plate, be used for the attachment thereof to the stock, in combination with detachable and interchangeable butt pieces or pads as above set forth; third, a novel attachable auxiliary or supplemental butt piece for the stock of a

fire arm, comprising a butt plate of improved form to be directly connected to the stock of the fire arm, and a pad, cushioned or rigid, having an improved detachable connection with the plate, whereby on connecting the plate to the butt end of the stock, any pad may be attached to the plate or removed therefrom quickly and easily for the substitution of another pad of different thickness; fourth, the invention comprises those specific embodiments of structure and 65 adaptation and combination of parts set forth fully hereinafter.

The embodiments of the invention which are shown in the accompanying drawings and are specifically described, are illustrative, instead of restrictive, of the scope of the invention as I do not limit myself to specific features except where they are specifically recited in the appended claims.

In the accompanying drawings,

Figure 1 is a vertical section showing the invention applied to the stock of a firearm;

Fig. 2, a detail side elevation of another thickness of cushion pad which may be used interchangeably with the pad of Fig. 1;

Fig. 3, a detail face view of the improved butt plate;

Fig. 4, a similar view of the detachable and interchangeable pad;

Fig. 5, a section on line 5—5, Fig. 1;

Fig. 6, a detail perspective of the wear plate for the pad;

Fig. 7, a similar view of the butt plate alone, the spring being omitted;

Fig. 8, a section on line 8—8, Fig. 6;

Fig. 9, a section on line 9—9, Fig. 7;

Fig. 10, a view like Fig. 1, showing a modification;

Fig. 11, a face view of the butt plate of Fig. 10;

Fig. 12, a face view of the pad of Fig. 10;

Fig. 13, a section on line 13—13, Fig. 10;

Fig. 14, a detail perspective of the pad of Fig. 10;

Fig. 15, a similar view of the butt plate of Fig. 10;

Fig. 16, and Fig. 17, detail views of wear plates that may be used with the pad of Fig. 10.

A portion of the stock of a gun is shown 105 at 1, the original or ordinary butt plate, commonly used on guns, having been removed but the screws 2 by which said origi-

nal butt plate was held, being allowed to remain for the purpose of securing to the stock the plate 3 which forms a part of the present invention.

5 Referring first to Figs. 1, 3, 5, 7, 9, the substitute butt plate 3 is preferably of metal, although I do not limit myself to the particular material employed. This plate has an under-cut or dove-tailed rib 4 extending 10 longitudinally thereof from one end 5 to a point which is short of the other end of the plate 3, being there provided with a shoulder 6. Concavities 7 and 8 are provided in the face of the rib 4 and the slots 9 and 10 15 extend through the plate 3 and lie in the major axis thereof parallel with the rib. The shanks of the screws 2 pass through the slots 9, 10 and the heads lie in the concavities 7 and 8 below the upper face of the rib 4. By the provision of the slots 9 and 10, 20 the screws, which hold the original butt plate, may be used for securing my improved plate 3, as considerable variation between the screws on different stocks is thus provided for; consequently, no alteration in 25 the stock of the gun, nor the use of additional attaching devices or screws is necessary in applying my improvements to the stock of any fire arm unless the original butt plate is taken off.

The rib 4 also has a longitudinal cavity 11 which is partly in the form of a slot. A stout locking leaf spring 12 provided with a bent portion or shoulder 13 lies 30 in the concavity 11 and has one end secured at 14. This locking leaf spring is employed for securing the attachable and interchangeable pads to the butt plate 3.

In Figs. 1, 2, I have shown attachable and 40 interchangeable pads 15 and 16 of different thicknesses, either of which may be applied to the plate 3 and rib 4 and used as a supplemental butt piece, of the desired thickness, according to the requirements of the 45 shooter. Except for the difference of thickness, these pads are of the same construction. They are shown as being provided with a recoil cushion 17 which may be of any well known, or preferred construction. 50 The pads shown in Figs. 1, 2, 4, 5 have a hard rubber or fiber plate 18 to which the cushion 17 is suitably secured. The rigid plate 18 is provided with recessed portions in which lies metal reinforcement 19 which 55 is provided with an undercut or dove-tailed channel 20, opening at one end 21 through the end of the plate 18 and at the other end being provided with a shoulder 22 located inwardly from the end of the plate 18. The 60 reinforcing metal member 19 constitutes a wear plate which prevents chipping or abrasion of the hard rubber or fiber plate 18. The reinforcing or wear plate 19 may be secured to the plate 18 by any suitable 65 means. The undercut or dove-tailed chan-

nel 20 is of a form and proper dimensions to snugly fit, and being adapted to freely slide on the rib 4 and against the face of the plate 3; and the shoulder 22 finally comes into engagement with the shoulder 6. The 70 reinforcing member or plate 19 has a cut-out or open portion 23 whose ends are provided with upturned flanges or shoulders 24, one of which is so positioned that when the shoulders 6 and 22 are in engagement, the 75 locking end 13 of the spring 12 is received within the opening 23 and engages the advance shoulder 24 thereof, thereby locking the parts together. An aperture 25 is provided in the cushion 17, said aperture intersecting the opening 23 and being located above the locking end of the spring 12 when the parts are locked together. By inserting a nail, pencil, match, or other suitable device through the hole 25, the locking end of 80 the spring may be depressed into the concavity 11 to release the spring from the shoulder 24 so that the pad, 15 or 16, may be readily unlocked.

Referring to Figs. 10, 11, 13, 15, the plate 90 3, rib 4, slots and concavities, and manner of securing the plate 3 to the stock by the screws 2, is substantially the same as heretofore set forth. The shoulder 6<sup>a</sup> may be rounded instead of square, as previously described. The locking spring 12<sup>a</sup> is reversed in position but otherwise substantially the same as spring 12.

In Figs. 10, 12, 13, 14 there is shown a solid detachable supplemental butt piece or 100 pad 26 which may be of fiber, or hard rubber, or, metal might be used in the thinner pads. The pad 26 is shown as made of hard rubber or fiber and has a longitudinally extending dove-tailed or cut-out slot 27 ending 105 in a shoulder 28, the latter corresponding to the shoulder 6<sup>a</sup>. The slot or cut-out portion 27 is of a size and form adapting it to fit the rib 4. A wear plate 29 is suitably secured to the inner face of the pad 26 and 110 has a shoulder 30 to engage the shoulder 13<sup>a</sup> on the spring 12<sup>a</sup> to lock the pad to the plate 3. A recessed portion 31 accommodates the head of the spring. An aperture or hole 32, which extends through the pad 1 26, is adapted to receive a nail, match, or other suitable implement so that the locking end of the spring may be depressed and forced out of engagement with the shoulder 30.

The plate 29 may be secured in different ways. In Figs. 16, 17 I have shown two different forms of securing means for the plates 29 and 29<sup>a</sup>. The plate 29 has a prong 33 which passes through the hole 32 and is clenched down. Said plate has other prongs 34 at its other end which enter the pad 26. The plate 29 is shown in its relative position in Figs. 10, 12, 14 and 16.

The plate may be reversed as to position,

as shown at 29<sup>a</sup>, Fig. 17, and have its prongs 35 arranged in, or adjacent, hole 32, and its other prong 36 entered into the pad.

What I claim is:

- 5 1. An attachment for the stock of a fire arm comprising a butt plate adapted to be secured to the butt end of the stock, a spring actuated locking device carried by said butt plate, and a plurality of pads or butt pieces 10 of different thicknesses each having means for detachable locking engagement with the spring actuated locking device on the butt plate and adapted for interchangeable use in connection with said butt plate.
- 15 2. An attachment for the stock of a fire arm comprising a butt plate having slots for the reception of the screws by which the original or ordinary butt plate of the fire arm was secured to the stock, said plate 20 being provided with an undercut rib having a shoulder, a detachable butt pad or piece having an undercut channel to slidably receive said rib, and spring actuated releasable locking means for automatically securing the pad or piece to the plate when the pad or piece is slid to locking position on the butt plate.

3. An attachment for the butt of the stock of a fire arm, comprising a butt plate 0 having undercut shoulders and secured to said stock, a detachable butt pad or piece having undercut shoulders adapted to slidably engage the shoulders on the plate, and releasable spring actuated locking means for automatically securing the butt pad or piece to the butt plate when the pad or piece is slid to locking position on the butt plate.

4. An attachment for the stock of a fire arm comprising a butt plate adapted to be secured to the butt of said stock, a locking device carried by said butt plate, and a detachable butt pad or piece adapted to engage the butt plate and constructed for engagement by the locking devices aforesaid, said butt pad or piece having an opening through which an implement may be inserted to release the locking device so that the butt pad or piece may be detached from the butt plate.

5. An attachment for the stock of a fire arm comprising a butt plate having locking shoulders and adapted to be secured to the butt of the stock, a spring catch or lock carried by the butt plate and located be-

tween the shoulders aforesaid, and a detachable butt pad or piece which has locking shoulders adapted to engage the shoulders of the plate and is provided with a locking shoulder adapted to engage the 60 spring catch or lock, said butt pad or piece having an aperture through which an implement may be inserted to release the spring catch or lock.

6. An attachment for the stock of a fire arm comprising a butt plate adapted to be secured to the butt of the fire arm and provided with a rib extending along the major axis of said plate, said rib having undercut shoulders and a stop-shoulder at one of its ends, and a detachable butt pad or piece having a groove with undercut shoulders, 70 extending along the major axis thereof from one of its ends toward its other end and terminating in a stop shoulder, said undercut shoulders of the butt pad or piece being adapted to engage the shoulders on the rib and the respective stop shoulders to engage with each other, and releasable spring actuated locking means for automatically securing the butt pad or piece to the butt plate 75 when the two stop shoulders abut.

7. An attachment for the stock of a fire arm comprising a butt plate adapted to be secured to the butt of the fire arm and provided with a rib extending along the major axis of said plate, said rib having undercut shoulders and a stop-shoulder at one of its ends, and a detachable butt pad or piece having a groove with undercut shoulders, 80 extending along the major axis thereof from one of its ends toward its other end and terminating in a stop shoulder, said undercut shoulders of the butt pad or piece being adapted to engage the shoulders on the 85 rib and the respective stop shoulders to engage with each other, said rib being provided with a concavity, a locking leaf spring secured to the butt plate and lying in the concavity, said spring having a shoulder, 90 said butt pad or piece having a shoulder adapted to engage the locking shoulder of the spring, and said butt pad or piece being provided with an aperture through 95 which an implement may be inserted to depress the locking spring to release the butt 100 pad or piece.

In testimony whereof I affix my signature.

WEBSTER L. MARBLE.