

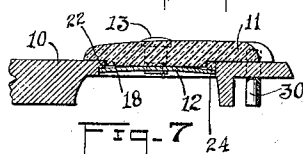
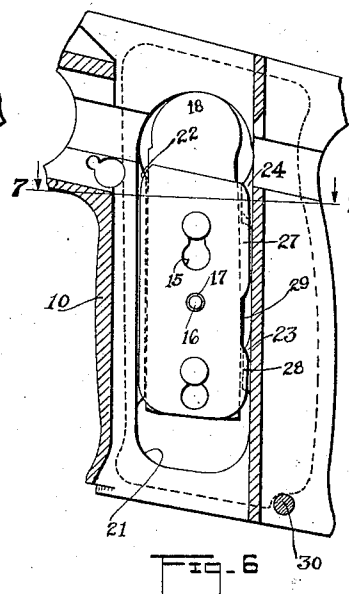
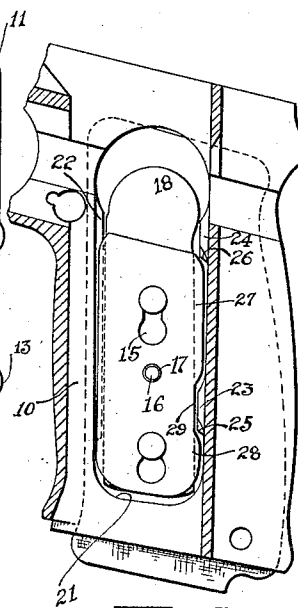
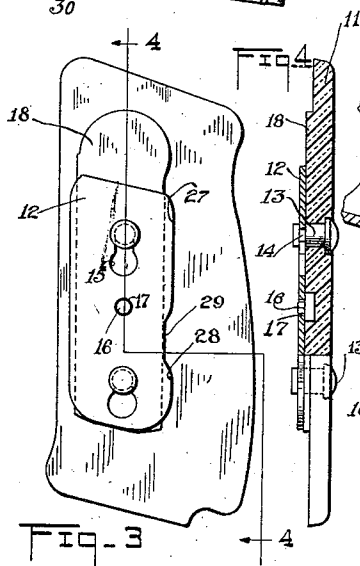
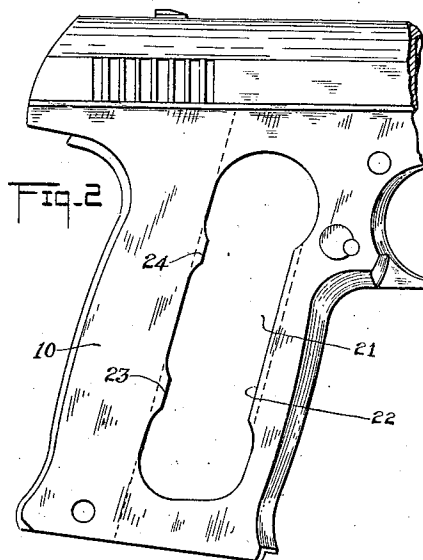
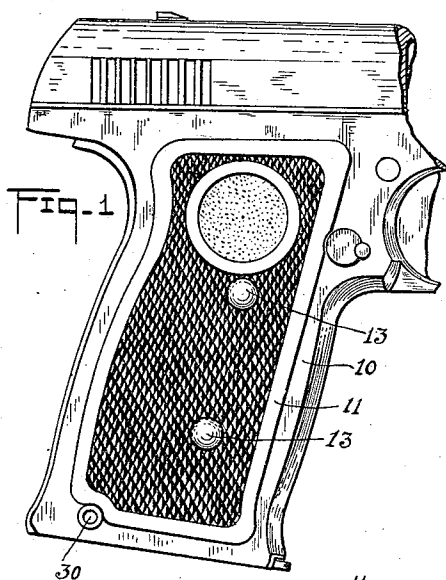
March 31. 1925.

C. C. LOOMIS

1,531,796

HANDLE FOR PISTOLS

Filed Dec. 4, 1919



WITNESS

Louis J. La Forest

INVENTOR
CRAWFORD C. LOOMIS

BY *C. A. Pickens*
ATTORNEY

UNITED STATES PATENT OFFICE.

CRAWFORD C. LOOMIS, OF ILION, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS, TO REMINGTON ARMS COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

HANDLE FOR PISTOLS.

Application filed December 4, 1919. Serial No. 342,398.

To all whom it may concern:

Be it known that I, CRAWFORD C. LOOMIS, a citizen of the United States, residing at Ilion, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Handles for Pistols, of which the following is a specification.

This invention relates to improvements in handles for pistols and has for its object to provide grip plates forming a part of such handles which may be readily attached to and removed from the arm but cannot become inadvertently detached.

A further object is to prevent rattling by providing means for holding the grip plates snugly in place.

More specifically it is an object to provide a flexible holding means which will hold the grip plates snugly in place even though the parts are not accurately dimensioned and fitted.

With these and incidental objects in view, the invention consists in certain novel features of construction and combination of parts which are set forth in the appended claims and a preferred form of embodiment whereof is hereinafter described with reference to the drawings which accompany and form part of the specification, wherein:

Fig. 1 is a partial side elevation of a pistol provided with my improved handle.

Fig. 2 is a view similar to Fig. 1 showing the grip plates removed.

Fig. 3 is a side elevation of my improved grip plate and its attaching plate.

Fig. 4 is a sectional view on the line 4-4 of Fig. 3 looking in the direction of the arrows.

Fig. 5 is a vertical sectional view of the pistol showing a grip plate partly applied thereto.

Fig. 6 is a view similar to Fig. 5 showing the grip plate fully applied.

Fig. 7 is a sectional view on the line 7-7 of Fig. 6 looking in the direction of the arrows.

In said drawings the numeral 10 indicates the frame of an automatic pistol although it is to be understood that the invention is applicable to firearms of any kind. 11 indicates a grip plate which may be of wood, fibre, hard rubber or any other suitable substance. Attached to the grip plate

is a flexible plate 12 preferably rather thin and formed of steel or other flexible material. This plate is attached to the grip plate by means of two or more attaching studs 13 preferably formed with a counter-sunk head and with a reduced neck portion 14. The plate 12 is formed with key-hole slots 15 having an enlarged portion dimensioned to receive the stud and having a reduced portion dimensioned to receive the neck portion of the studs as is clearly shown in the drawings. The grip plate also preferably carries a dowel 16 receivable in an opening 17 in the flexible plate. In order to assemble these parts the studs 13 and dowel 16 are inserted in the grip plate and the plate 12 applied to the studs and then this plate is slid downwardly until the dowel penetrates the opening 17. The reduced portions of the key hole slots have now entered the neck portion of the studs and the plate 12 is thereby held in position. The dowel 16 prevents the plate 12 from sliding upwardly and thereby becoming detached. In order to detach the plate 12 a knife blade or other similar instrument is passed between the grip plate and the plate 12 until the latter is flexed outwardly sufficiently far to clear the dowel 16. The plate 12 may then be slid upwardly until the studs register with the enlarged portion of the key hole slots and then removed. While this manner of attaching the plate 12 to the grip plate is a very desirable one it is to be understood that any other suitable means may be used, if desired.

The frame 10 of the pistol is preferably formed with an opening 21 of substantially the form shown. One edge of this opening is undercut to form the shoulder 22. The other edge is provided with undercut lugs 23 and 24 provided preferably with inclined end portions 25 and 26. The grip plates are preferably formed with a raised portion 18 of somewhat the general form shown in the drawings which serves to space the plate 18 sufficiently far within the frame of the pistol to locate the plate 12 behind the shoulder 22 and the lugs 23 and 24.

In assembling the grip plate with the pistol it is applied to the frame in a somewhat inclined position in substantially the location shown in Fig. 5 with an edge of

the plate 12 underlying the shoulder 22. The grip plate is then moved against the frame and is slid upwardly into the position shown in Fig. 6. During this movement the plate 12 has come into contact with the inclined portions 25 and 26 which have caused the plate to ride under the lugs 23 and 24 and to assume the flexed position shown in Fig. 7. It will be seen that the plate 12 will hold the grip against the frame under spring tension and thereby prevent looseness and rattling of the grips. A further advantage of this flexible holding means is that the parts need not be accurately dimensioned for securing interchangeability. The plates 12 are provided with a recess 29 for allowing the passage of the lug 23 when the grip plate is applied to the pistol and if desired the portions of the plate 12 indicated by 27 and 28 may be beveled to cooperate with the inclined portions 25 and 26. Any desirable means may be provided for holding the grip plates in their assembled position as for example, a cross pin 30.

It will be seen therefore that I have provided a device which fulfills the objects primarily stated and while I have shown a single embodiment of my invention, it is clear that other forms thereof may readily be provided without departing from my invention and that while my improved attaching means has been especially designed for use in pistols it is obvious that it may find application also in other lines of manufacture.

What I regard as my invention and desire to secure by Letters Patent of the United States is:—

1. A handle for firearms and the like comprising a frame, a grip plate, means for connecting the frame and grip plate, said means comprising a flexible plate secured to the grip plate near the center and having its edges secured to said frame, said flexible plate being flexed into position for holding the grip plate against the frame under tension.
2. A handle for firearms comprising a grip plate, a flexible plate, and means for attaching the flexible plate to the grip plate, said means comprising studs secured to the grip plate receivable in key-hole slots in the flexible plate.
3. A handle for firearms comprising a grip plate, a flexible plate, and means for attaching the flexible plate to the grip plate, said means comprising studs secured to the grip plate receivable in key-hole slots in the flexible plate and means for holding the flexible plate against displacement relative to the grip plate.
4. A handle for firearms comprising a grip plate, a flexible plate, and means for attaching the flexible plate to the grip plate comprising studs secured to the grip plate receivable in key-hole slots in the flexible plate and means for holding the plates against displacement relative to each other said means comprising a dowel in said grip plate receivable in a hole in said flexible plate.
5. A handle for fire arms and the like comprising a frame, a grip plate, means for connecting said grip plate to said frame and means for distorting said connecting means for pressing said grip plate against said frame.
6. A handle for fire arms and the like comprising a frame, a grip plate, and distortable means receivable within an opening in the frame for pressing said grip plate against said frame.
7. A handle for fire arms and the like comprising a frame, a grip plate, resilient means for connecting said grip plate to said frame, and means comprising an inclined surface on said frame for flexing said resilient means to press said grip plate against said frame.
8. A handle for fire arms and the like comprising a frame, a grip plate, resilient means for connecting said grip plate to said frame, and means for flexing said resilient means to place the latter under tension and cause the grip plate to be pressed firmly against said frame.
9. A handle for fire arms and the like comprising a frame, a grip plate, and a flexible member secured to said grip plate, said frame having an opening with undercut edges for receiving and flexing said member.
10. A handle for fire arms and the like comprising a frame having an opening with an under-cut shoulder on one edge and a plurality of under-cut lugs on the other, a grip plate, and a resilient member connected to said grip plate and adapted to be positioned in contact with said shoulder and said lugs.
11. A handle for fire arms and the like comprising a frame having an opening with an under-cut shoulder on one edge and a plurality of under-cut lugs on the other, a grip plate, and a resilient member connected to said grip plate, and adapted to be positioned in contact with said shoulder and said lugs, said lugs having bevelled end portions for flexing said resilient member.
12. A handle for fire arms and the like comprising a frame, a grip plate, a flexible member secured near its center to the grip plate and means on said frame co-operating with the edges of said member for flexing the latter to press the grip plate against the frame.
13. In combination, a grip plate for fire arms and the like, a flexible plate, and means for attaching said flexible plate to said grip

plate, comprising studs on one of said plates receivable in slots in the other plate.

14. In combination, a grip plate for fire arms and the like, a flexible plate, means
5 for attaching said flexible plate to said grip plate, comprising studs on one of said plates receivable in slots in the other plate, and means for preventing relative displacement of said plates.

10 15. In combination, a grip plate for fire

arms and the like, a flexible plate, means for attaching said flexible plate to said grip plate, comprising studs on one of said plates receivable in slots in the other plate, and means comprising a dowel on one plate receivable in a hole in the other plate for preventing relative displacement of said plates. 15

In witness whereof I have signed my name hereto this 29 day of November, 1919.

CRAWFORD C. LOOMIS.