J. W. PERKINS.

RECOIL PAD.

APPLICATION FILED NOV. 2, 1914.

1,128,037. Patented Feb. 9, 1915.

FIG. 1

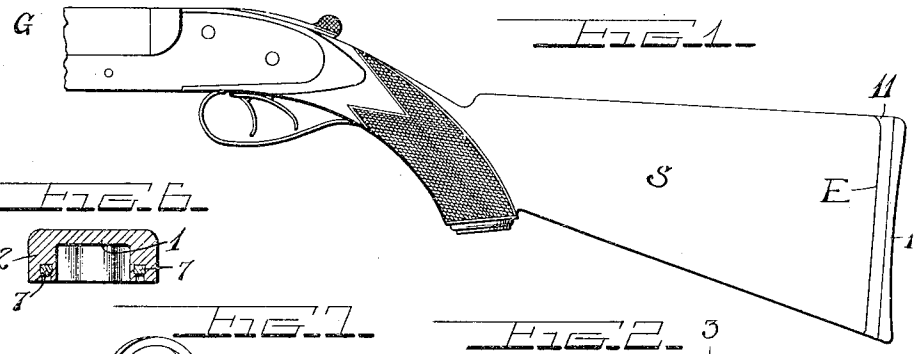


FIG. 6

FIG. 7

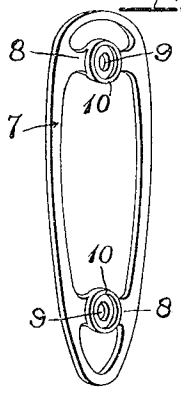


FIG. 8

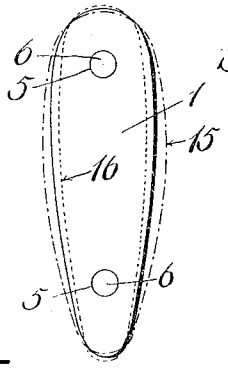


FIG. 2

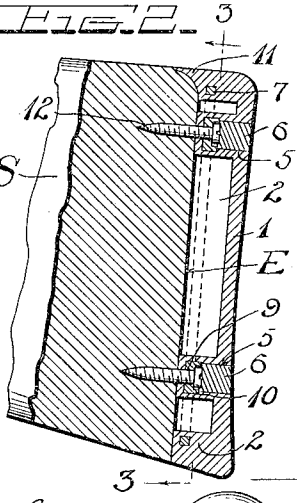
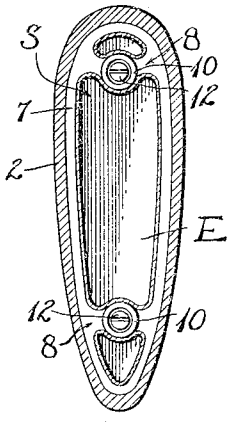


FIG. 3



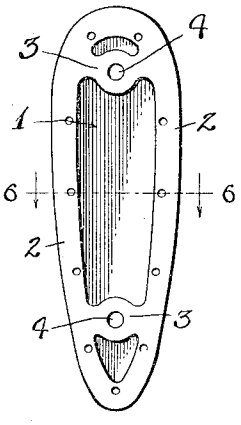


FIG. 5

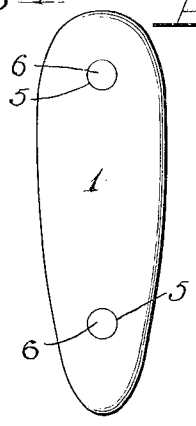


FIG. 4

Witnesses

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UNITED STATES PATENT OFFICE.

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RECOIL-PAD.

1,128,037. Specification of Letters Patent. Patented Feb. 9, 1915.

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To all whom it may concern:

Be it known that I, JOHN W. PERKINS, a citizen of the United States, residing at Everett, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Recoil-Pads; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates broadly to improvements in fire arms and more particularly to recoil pads for application to the stocks of numerous forms of guns.

The main object of the invention is to provide an extremely simple recoil pad which may be easily applied to the stock of a gun without the necessity of mutilating the same.

A further object is to reinforce the pad and to provide fastening elements which contact only with the reinforcing means, whereby undue strain is relieved from the pad proper.

With the above and minor objects in view, the invention resides in certain novel features of construction and combination herein described and claimed and shown in the drawings wherein—

Figure 1 is a side elevation of a portion of a gun showing the application of the invention thereto; Fig. 2 is a similar view, partly in section, of a portion of the stock; Fig. 3 is a vertical transverse section as seen on the line 3—3 of Fig. 2; Fig. 4 is an inner side view of the pad removed; Fig. 5 is a rear side view thereof; Fig. 6 is a horizontal section taken on the line 6—6 of Fig. 4; and, Fig. 7 is a perspective view of the reinforcing frame; and, Fig. 8 is a view similar to Fig. 5 but showing the manner in which the pad may be varied in width.

In the accompanying illustration, forming a part of this application, a portion of a gun G is shown which is provided with a common form of stock S having a flat unmutilated butt end E. Designed for attachment to said butt end E, is my improved recoil pad which comprises a flexible web 1, positioned in rear of the butt, an elliptical flange 2 likewise formed of resilient material and integrally united to the front side of the web 1, at its edge. Extending transversely across the opposite ends of the elliptical flange 2, are upper and lower ribs 3 whose central portions are here shown as being enlarged and provided with screw receiving openings 4 at their inner ends, while their outer end portions are recessed by the inner ends of openings 5 which extend therethrough and through the adjacent portions of the web 1, said openings 5 being closed by resilient plugs 6 when the device is in use. Embedded within the flange 2, is an elliptical reinforcing frame 7 whose upper and lower ends are spanned by transverse plates 8 whose centers are enlarged and provided with openings 9, said openings registering with the openings 4 and 5 and being preferably surrounded by annular flanges 10. By the provision of this reinforcing frame, the necessary rigidity is imparted to the recoil pad for preventing the flange 2 from bulging either outwardly or inwardly when the pad is compressed, yet the resiliency of said pad is not impaired by said frame. It will therefore be seen that this provision is highly expedient.

In securing the pad to the butt end of a gun it is unnecessary to mutilate the latter in any manner whatsoever since the flange 2 contacts with said end as seen in the drawings and may, if desired, be provided with a lip 11 which overlies the upper rounded edge of said butt end. When in this position, the plugs 6 are removed and fastening screws 12 are passed through the alined openings 9 and 4 and into the stock of the gun, after which the plugs 6 are again inserted and, if necessary, are cut to cause their outer ends to lie flush with the outer surface of the web 1.

A device constructed as above described and as illustrated in the drawings, possesses a number of advantageous features, yet is simple in construction and may therefore be inexpensively marketed.

It may here be explained that the frame 7 is formed of comparatively pliable material, thereby allowing the entire pad to be widened as seen by the dot and dash line in Fig. 8, this line being designated by the numeral 15, and likewise allowing said pad to be reduced in width as seen by the dotted line 16 in this figure. In making either of these adjustments, the side bars of the elliptical frame 7 must be bent, said bars then retaining their new shapes and thereby retaining the pad in its expanded or contracted position. After the pad has been secured to the stock, the edges of the pad may be

filed in such a manner as to cause the same to lie flush with the stock or, if necessary, the stock itself may be altered in shape to allow it to conform to the exact shape of the pad. In view of the above, it will be seen that the frame 7 performs the twofold function of reinforcing the pad and acting as means for retaining it in expanded and contracted position.

I claim:

1. A recoil pad comprising a resilient web, an elliptical resilient flange projecting laterally from one side thereof and formed integrally therewith, an elliptical reinforcing frame embedded in said flange, and transverse integral plates spanning the opposite ends of the frame and the flange, said plates having openings to receive fastening elements.

2. A recoil pad comprising a resilient web, a resilient elliptical flange formed integrally therewith and projecting laterally from one side thereof, transverse resilient ribs spanning the opposite ends of said elliptical flange and formed integrally therewith and with said web, and an elliptical reinforcing frame embedded in the flange and having transverse plates embedded in said ribs, said plates having openings to receive fastening elements.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN W. PERKINS.

Witnesses:
JAMES B. BROWN,
GEORGE A. BROWN.

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