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W. W. WOHLWEND.

RECOIL PAD.

APPLICATION FILED FEB. 8, 1907.

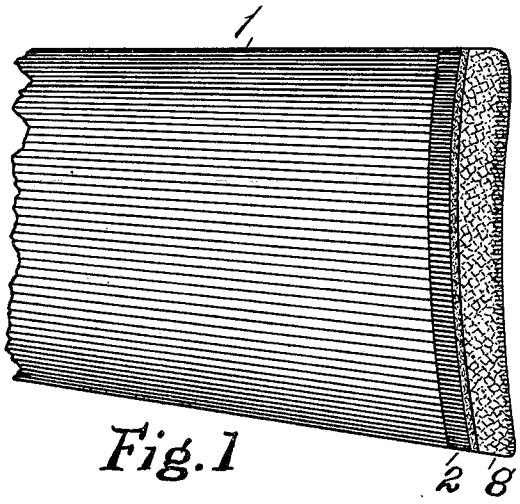


Fig. 1

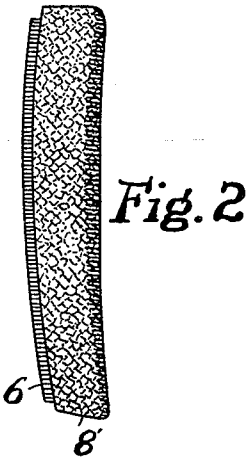


Fig. 2



Fig. 3

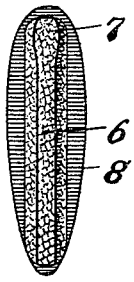


Fig. 4

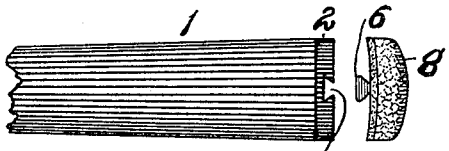


Fig. 5.

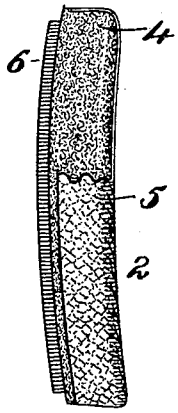


Fig. 6.

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RECOIL-PAD.

No. 866,994. Specification of Letters Patent. Patented Sept. 24, 1907.

Application filed February 8, 1907. Serial No. 356,452.

To all whom it may concern:

Be it known that I, WILLIAM W. WOHLWEND, a citizen of the United States, residing at Akron, in the county of Summit and State of Ohio, have invented new and useful Improvements in Recoil-Pads, of which the following is a specification.

This invention relates to recoil-pads for guns and the objects thereof are to produce a simple and effective device for absorbing the greater part of the recoil due to the discharge of fire-arms.

The invention contemplates the construction of a plurality of pads arranged in sets to be severally placed in position when needed, each of which differs from the others in thickness whereby the gun-stock may be increased or diminished in length in order to adapt it to different users or make it shorter or longer to suit the thickness of the clothing of the person handling the same. It frequently happens that the user of a gun wears much more heavy clothing in cold weather than in summer and experience has shown that when trap-shooting a short stock is much more available than a long one, and to suit the gun-stock to these various requirements is a primary object of this invention.

The invention also contemplates the employment of efficient means for detachably securing the various pads severally in position in such a manner as to be readily removed at any time to permit the use of another pad of a different thickness.

It is also a feature of this invention that these pads may be either attached directly to the gun-stock or to a suitable device fixedly secured thereto with equally efficient results.

A practical embodiment of this invention is illustrated in the accompanying drawings in which similar reference numerals indicate like parts in the different figures.

In the drawings, Figure 1 is a side elevation of a gun-stock with my improved pad secured thereto; Fig. 2 is a view of a second pad of greater thickness in position adjacent the first pad; Fig. 3 is a rear view of the device for securing the pads in position; Fig. 4 is a front view of a pad showing the means for detachably securing it in position; Fig. 5 is a plan of a gun-stock and a pad slightly separated from each other to better illustrate the construction thereof; and, Fig. 6 a view of one of the pads with portions thereof broken away to better illustrate the internal construction thereof.

In the drawings, the reference numeral 1 indicates the butt end of an ordinary gun-stock. On the butt end of this stock is secured a plate 2, preferably constructed of some such material as hard rubber having in the rear face thereof a dove-tailed groove 3 (see Fig. 3) terminating a short distance from the bottom thereof.

The pads referred to by the numeral 8 are all made precisely alike, except that they differ in thickness, for the purpose of making the gun-stock shorter or longer and are preferably made of sponge-rubber, indicated by the reference numeral 4 covered with a jacket 5 of leather to protect the rubber and also to eliminate the danger of the soft sponge-rubber sticking to the clothing of the wearer when brought quickly into position for firing. On the front face of these pads is a dove-tailed ridge 6, preferably covered with leather and of sufficient stiffness to maintain itself in proper position at all times. The upper ends of these ridges 6 are enlarged at a point designated in the drawings by the reference numeral 7 in Fig. 4 for the purpose of causing greater frictional engagement with the grooves 3 and plates 2, thereby preventing unintentional displacement of the pads when in use. It will be seen that when these ridges 6 are passed into the dove-tailed grooves 3 they will securely retain the pads in position, and the enlarged portions 7 of these ridges will engage the grooves so firmly as to require considerable effort to withdraw them therefrom.

The dove-tailed groove 3 does not extend entirely across the face of the plate 2 but stops short thereof, as shown in Fig. 3, and when a pad is placed in position therein, the dove-tailed ridge thereon will be prevented from passing entirely through, which serves to effectually maintain the same against unintentional displacement.

It will be noted that the pad shown in Fig. 2 is considerably thicker than the pad shown in Fig. 1, and hence when employed in the position of that shown in Fig. 1 the length of the stock will be materially increased.

The soft sponge-rubber 4 affords a remarkably effectual means for cushioning a gun and absorbs the recoil incidental to its use; the employment of a covering protects the rubber and makes the use of the gun more certain and the butt of the stock is less liable to catch against the clothing of the wearer before it is securely in position against the shoulder.

It will be obvious of course that the general design and shape of these pads can be varied considerably, and while two pads only are illustrated in the drawings, any number of these may be employed and any thickness which the fancies or desires of the user may deem best. It will be apparent that instead of securely fastening the plate 2 against the butt of the stock a dove-tailed groove may be cut therein and the dove-

tailed ridges 6 inserted therein, thereby eliminating the use of the plate 2 entirely, without in any manner departing from the scope of this invention.

What I claim and desire to secure by Letters Patent, is:—

The combination with a gun-stock, of a member fixedly secured thereto and provided with a dove-tailed groove in its outer face terminating at a point removed from the lower end thereof, a resilient recoil pad consisting of a body of sponge rubber having its inner face formed with a dove-tailed ridge having an enlarged upper end and surrounded by a flexible covering, said ridge adapted to enter said groove and said enlarged portion of said ridge constituting a wedge for rigidly securing the pad to said member.

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

WILLIAM W. WOHLWEND.

Witnesses:
I. F. KEPLER,
C. E. HUMPHREY.