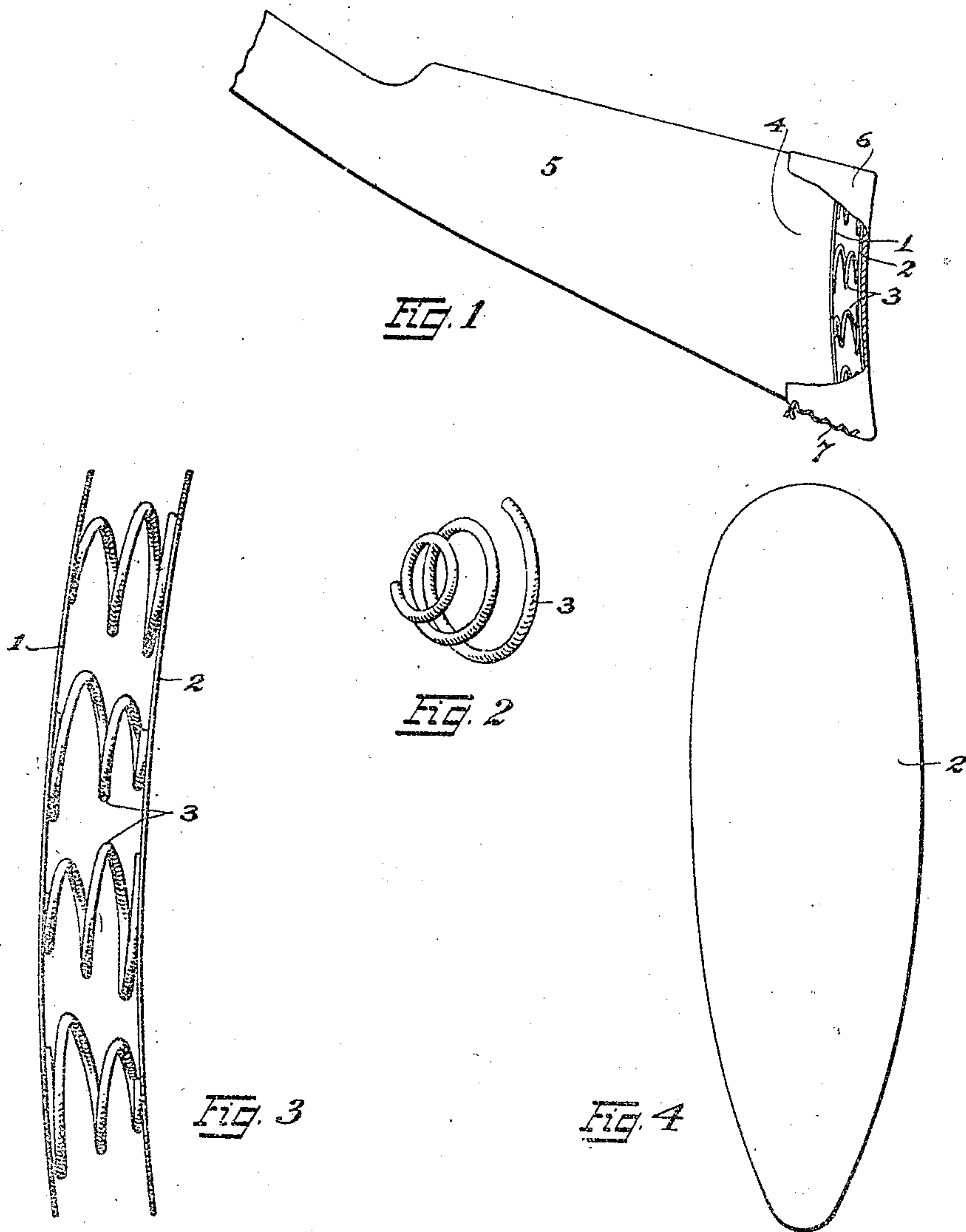


J. S. JOHNSON.  
RECOIL PAD.  
APPLICATION FILED SEPT. 11, 1909.

943,683.

Patented Dec. 21, 1909.



Witnesses:  
H. C. Valentin  
A. C. Peters

Inventor:  
Jos. S. Johnson

By O. B. Billman  
his attorney

# UNITED STATES PATENT OFFICE.

JOSEPH S. JOHNSON, OF LODI, OHIO.

## RECOIL-PAD.

943,683.

Specification of Letters Patent.

Patented Dec. 21, 1909.

Application filed September 11, 1909. Serial No. 517,231.

*To all whom it may concern:*

Be it known that I, JOSEPH S. JOHNSON, a citizen of the United States, residing at Lodi, in the county of Medina and State of Ohio, have invented certain new and useful Improvements in Recoil-Pads, of which the following is a specification.

My invention relates to improvements in recoil-pads, designed to be attached upon the heel end of a gun-stock for the purpose of taking up the recoil resulting from the firing of a heavily loaded gun, thus, preventing bruising of the shoulder of the user.

The primary object of the invention is to provide a generally improved recoil-pad of this class, which will be exceedingly simple in construction, cheap of manufacture, efficient in use, and much better adapted to its intended purposes than any other device of the same class, with which I am acquainted.

With the above mentioned ends in view, the invention consists in the novel construction, arrangement, and combination of parts, hereinafter described, illustrated in one of its embodiments in the accompanying drawings, and particularly pointed out in the appended claim.

Referring to the drawings, forming a part of this specification, Figure 1, is a side elevation of the improved gun-pad as it appears applied to the butt end of a gun, a portion of the walls of the jacket or boot being broken away for the purpose of clearer illustration of the parts. Fig. 2, a perspective view of one of the cushioning springs. Fig. 3, an enlarged side elevation of the cushioned heel-plates detached from the jacket or boot. Fig. 4, a rear elevation of the same.

Similar numerals of reference designate like parts throughout all the figures of the drawings.

The improved recoil-pad comprises the metallic heel-plates 1, and 2, and a plurality of interposed springs 3. The springs 3,

are preferably of helical form and conical shaped as shown, and secured to the adjacent sides of the heel-plates by soldering. The heel-plate 1, is adapted to rest directly against the heel portion 4, of the gun-stock 5, and the rear or floating plate 2, is preferably formed of thin flexible material, such as sheet brass or steel, whereby the same is adapted to readily conform to the contour of the shoulder of the user of the fire-arm. The conical shaped helical springs 3, are preferably alternately arranged and secured between the heel-plates 1, and 2, as shown, and the cushioned heel-plates are adapted to be readily attached to, and detached from the heel of the gun-stock by means of a jacket or boot 6, secured thereto in the usual manner by means of the usual lacing 7. The cushioned heel-plates are adapted to rest in the rear or base portion of the boot, as shown, and if desired, the heel-plate 2, may be secured thereto in any suitable and convenient manner.

From the foregoing description, taken in connection with the accompanying drawings, the operation and advantages of my invention will be readily understood.

Having thus described my invention, what I claim and desire to secure by Letters Patent is,—

A recoil-pad, comprising a base heel-plate provided with a plurality of alternately reversed conical shaped helical springs carrying a flexible heel-plate independently of said base heel-plate, and an independently formed detachable boot covering said heel-plates and removably holding said base heel-plate to the heel of the gun-stock.

In testimony whereof I have affixed my signature, in presence of two witnesses.

JOSEPH S. JOHNSON.

Witnesses:

JAY INMAN,  
R. K. GAMBLE.