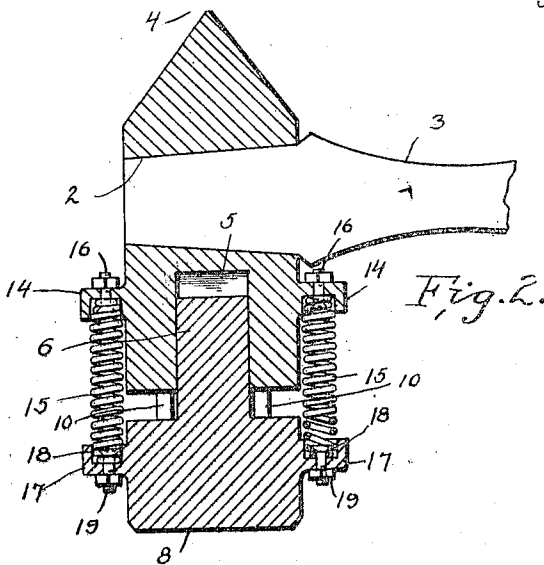
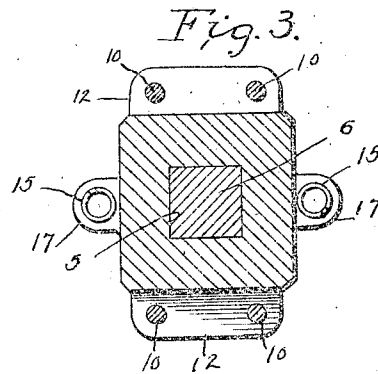
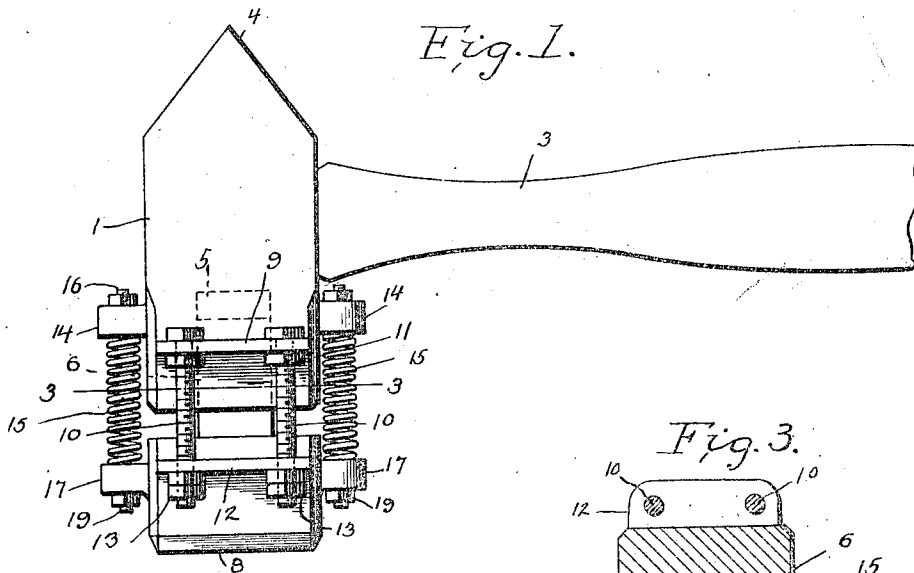


J. F. RUDD.  
SLEDGE HAMMER.  
APPLICATION FILED SEPT. 9, 1916.

1,210,539.

Patented Jan. 2, 1917.



Inventor  
J. F. Rudd

Witnesses

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# UNITED STATES PATENT OFFICE.

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## SLEDGE-HAMMER.

1,210,539.

Specification of Letters Patent.

Patented Jan. 2, 1917.

Application filed September 9, 1916. Serial No. 112,321.

### *To all whom it may concern:*

Be it known that I, JAMES F. RUDD, a citizen of the United States, residing at McComas, in the county of Mercer and State of West Virginia, have invented certain new and useful Improvements in Sledge-Hammers; and I do hereby 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.

This invention relates to a sledge hammer and has for its primary object the provision of means for obviating shock and vibration to a person when using the hammer, caused by the suddenness in which the hammer comes in contact with the object being driven.

Another object of this invention is to provide a cushioned head to the body portion of the hammer, which will absorb the shock and vibration to the handle.

A further object of this invention is the provision of means for securing the cushioned head to the body portion of the hammer, whereby the head is capable of moving in relation to the body portion when coming in contact with the object being driven.

A still further object of this invention is the provision of a sledge hammer of the above stated character, which shall be simple, durable and efficient, and which may be manufactured and sold at a comparatively low cost.

With these and other objects in view as will become more apparent as the description proceeds, the invention consists in certain novel features of construction, combination and arrangement of parts as will be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which:—

Figure 1 is a fragmentary side elevation of a sledge hammer, constructed in accordance with my invention, Fig. 2 is a vertical sectional view of the same, and Fig. 3 is a longitudinal sectional view taken on the line 3—3 of Fig. 1.

Referring in detail to the drawing, the numeral 1 indicates a body portion of a

hammer, having the usual opening 2 for the reception of the handle 3. One end of the body portion is pointed as illustrated at 4 for the purpose of using the hammer to sever bolts and the like. The other end of the body portion 1 has a central recess or socket 5 for the reception of a shank 6 formed upon a cushioning head 8.

Pairs of oppositely disposed lugs 9 are formed on the body portion 1 of the hammer and are each provided with an aperture to receive bolts 10, the bolts 10 being held in the apertures by means of nut locks 11. The bolts 10 extend downwardly from the recessed end of the body portion 1 of the hammer upon each side of the cushioning head 8 and are received by pairs of oppositely disposed lugs 12 formed on the cushioning head. The lower ends of the bolts 10 are screw threaded to receive nuts 13 for retaining the shank 6 in the recess or socket 5 of the body portion 1.

A pair of oppositely disposed lugs 14 are formed upon the front and rear side of the body portion 1 and have secured thereto coil springs 15 by means of bolts 16, the lugs 14 being each provided with a socket for the reception of one end of the coiled springs. A pair of oppositely disposed lugs 17 having recesses 18 are formed on the front and rear sides of the cushioning head 8 for the reception of the lower end of the coil springs 15 which are secured within the recesses 18 of the lugs 17 by means of bolts 19. The springs 15 being adjustably secured to the body portion 1 and to the cushioning head 8 have the tendency to move the cushioning head 8 away from the body portion 1.

In operation, when a person is using the hammer and swings the hammer or cushioning head 8 into an engagement with an object being driven, when the cushioning head 8 comes in contact with the object being driven, the springs 15 are compressed, allowing the shank 6 to move upwardly within the recess or socket 5, thereby absorbing shocks and vibrations to the handle 3 caused by the hammer coming in contact with the object being driven.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement

of parts may be made without departing from the spirit and scope of the invention as claimed.

Having thus described my invention, what I claim is:—

1. A sledge hammer comprising a body portion having a recess in one end thereof, a handle secured to said body portion, a shank slidable within said recess, a cushioning head formed on said shank, pairs of oppositely disposed rods rigidly secured to the body portion and slidably connected to the cushioning head, and tension means connected to the body portion and to the cushioning head.

2. A sledge hammer comprising a body portion having a recess in one end thereof, a handle secured to said body portion, pairs of oppositely disposed lugs formed on the sides of the body portion, rods rigidly secured to said lugs, a shank slidable within the recess, a cushioning head formed on said shank, means for slidably securing the rods

to the head, and cushioning means secured to the body portion and to the head.

3. A sledge hammer comprising a body portion having a recess in one end thereof, a handle secured in said body portion, a shank slidable in said recess, a head formed on said shank, pairs of oppositely disposed rods rigidly secured to the body portion and slidably secured to the head, a pair of oppositely disposed lugs formed on the front and rear sides of the body portion, coil springs secured to the lugs, and pairs of lugs formed on the front and rear sides of the cushioning head and secured to the springs to form a cushioning means between the head and body portion.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES F. RUDD.

Witnesses:

H. H. RANDOLPH,  
H. E. HOWELL.