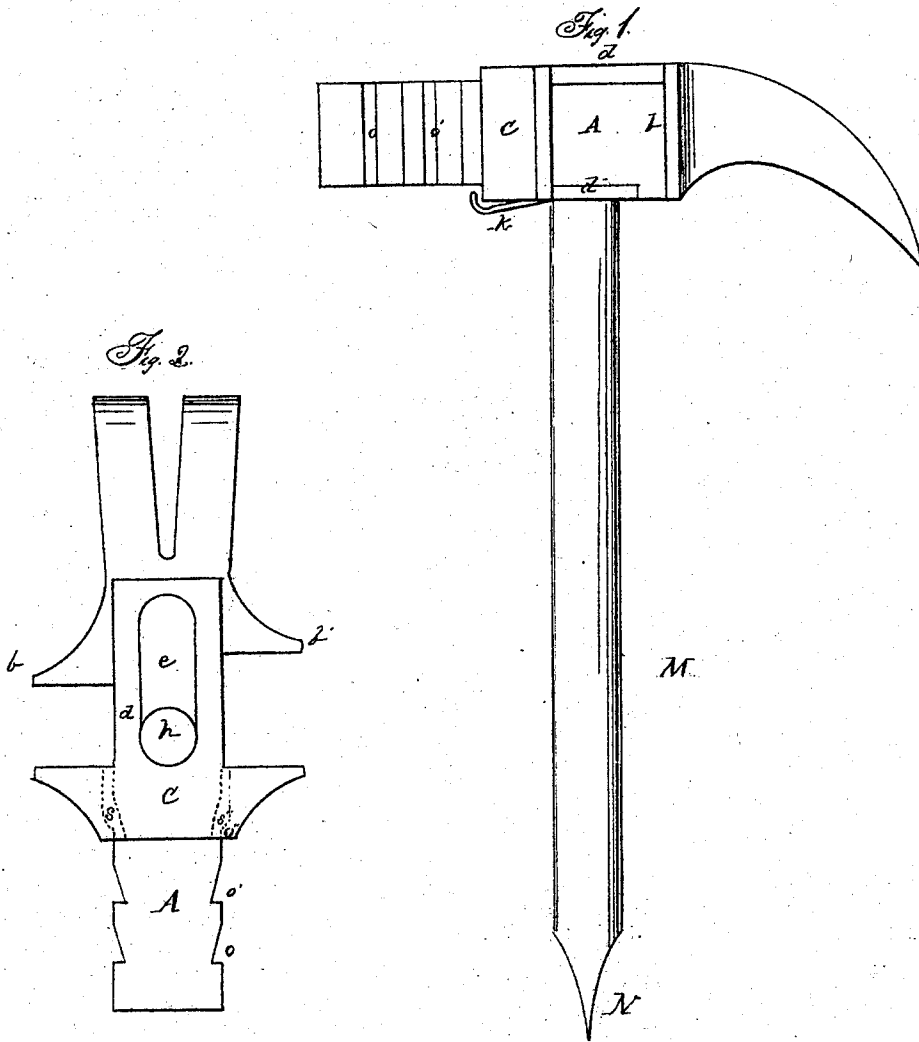


O. Shepard.

Hammer.

N^o 74615

Patented Feb, 18, 1868.



Witnesses
Samuel S. Boyd
Joseph Dickson.

Inventor
O. Shepard
Boyd & Co. Attys

United States Patent Office.

OTIS SHEPARD, OF ALTON, ILLINOIS.

Letters Patent No. 74,615, dated February 18, 1868.

IMPROVEMENT IN HAMMERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, OTIS SHEPARD, of Alton, county of Madison, and State of Illinois, have invented a new and useful Improved Hammer, of which the following is a full, clear, and exact description, reference being had to the annexed drawing, making a part of this specification, in which—

Figure 1 represents a side view of my invention.

Figure 2 represents a top view of the hammer-head.

Similar letters indicate like parts.

My invention consists in forming an ordinary hammer-head, A, with a shoulder on either side, like the fixed jaw of an ordinary wrench, as at *b*, fig. 1, *b b'*, fig. 2. A double sliding jaw, C, figs. 1 and 2, is made to fit on the other extremity of the hammer-head, its two guiding-plates, *d d'*, fig. 1, *d*, fig. 2, sliding in channels made to receive them in the bottom and top of the hammer-head. These plates *d d'* are both slotted, as seen at *e*, fig. 2, and when the extremity of the plates reaches the ends of the channels the ends of the slots will coincide with the opening in the hammer-head made to receive the handle, as seen at *h*, fig. 2. A spring, *k*, fig. 1, likewise having an opening for the handle, being placed on the under side of the hammer-head, the handle M is then passed through the spring, sliding jaw, and hammer-head, and secured in the usual way. The spring *k* holding the sliding jaw firm, the wrench is ready for use, and as the shoulders *b b'* are not on a line with each other, it is evident we have two wrenches differing in size.

In order to render the wrench adjustable, the end of the hammer-head has three teeth, *o o'*, fig. 1, *o o' o''*, fig. 2, while the inside of the sliding jaws is bevelled, as seen at *s s'*, fig. 2, to lock into these teeth. The jaws being released from the spring *k*, may be adjusted as desired. The beveling in same catching in the teeth of the hammer-head, will hold the jaws firm, with the assistance of the guiding-plates and their channels. Of course, by increasing the number of teeth and lengthening the hammer-head, a greater scope may be given to the application of the wrench.

The hammer-head may be made of any metal or combination of metals, and the handle may be of metal or wood.

What I claim as my invention, and desire to secure by Letters Patent, is—

A hammer, the head of which is made of two parts, A and C, connected by the handle M and spring *k*, when the several parts are constructed and operate in relation to each other substantially as shown and specified.

OTIS SHEPARD.

Witnesses:

STEPHEN LAVENUE,
ACHILLES LAVENUE.