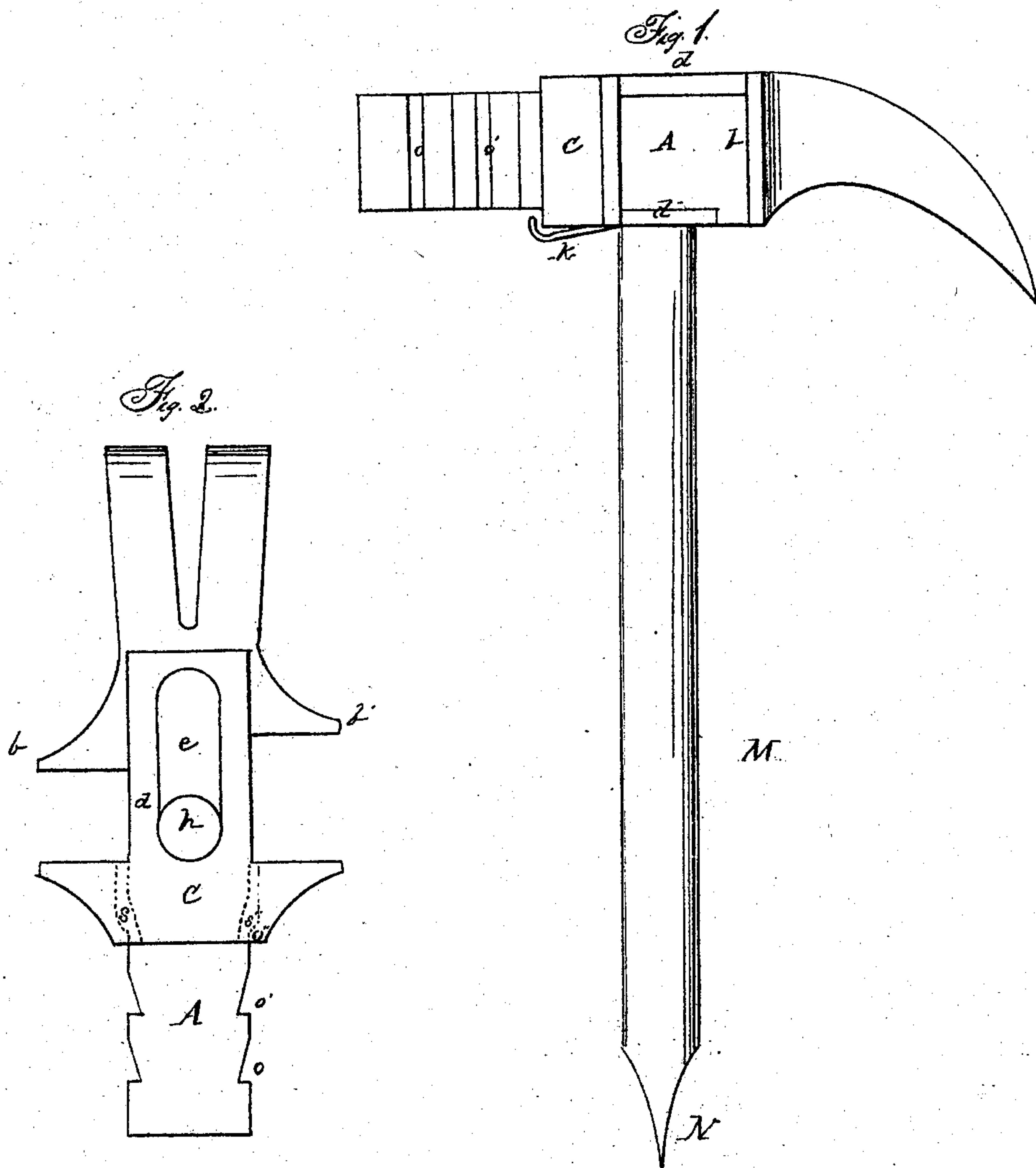


O. Shepard.

Hammer.

N<sup>o</sup> 74615

Patented Feb, 18, 1868.



Witnesses  
Sam'l S. Boyd

Joseph Dickson.

Inventor  
O. Shepard  
for  
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 bevelling 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.