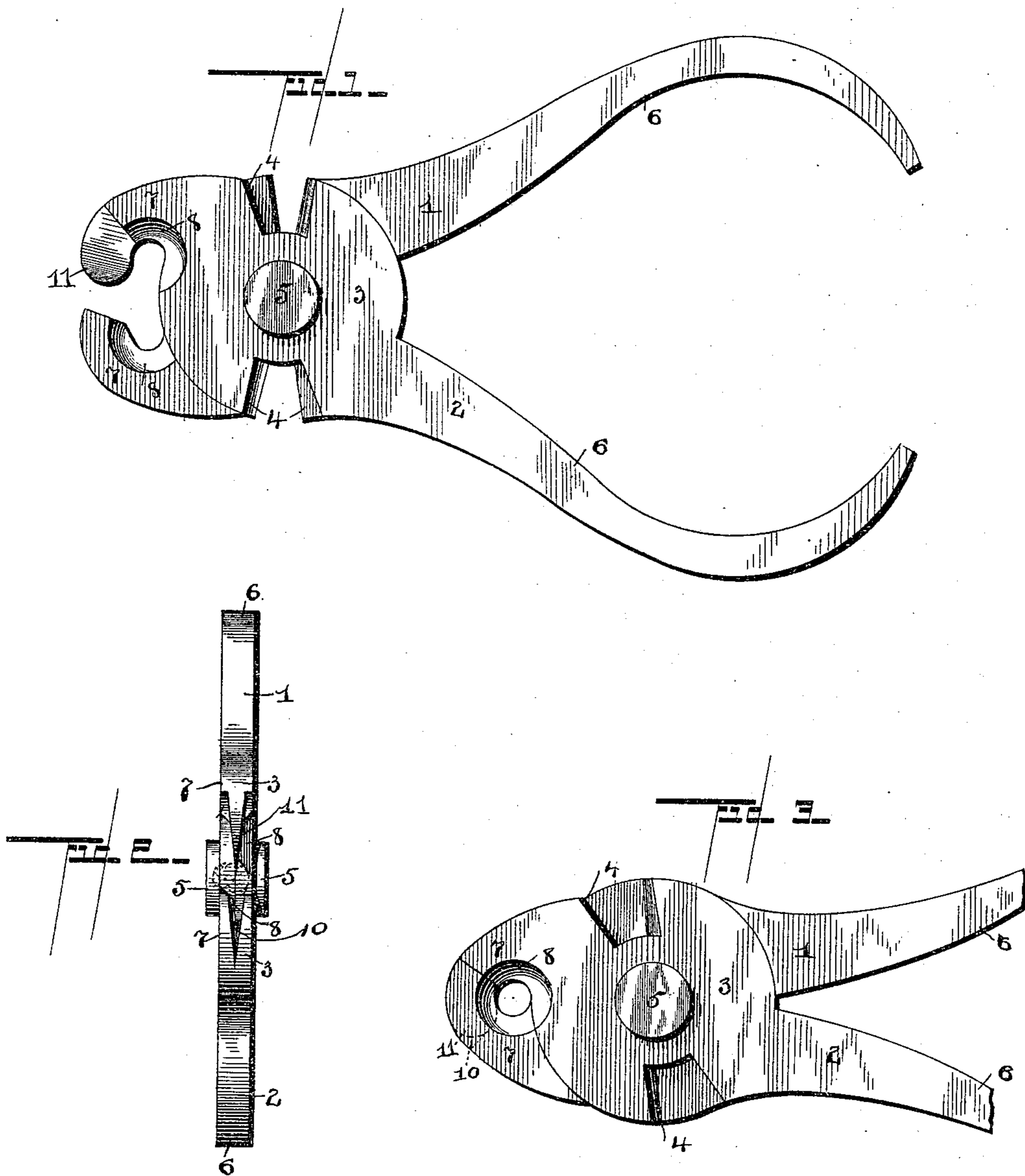


(No Model.)

N. W. MOODEY.  
MINER'S TOOL.

No. 479,444.

Patented July 26, 1892.



Witnesses

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# UNITED STATES PATENT OFFICE.

NATHAN W. MOODEY, OF FRESNO, CALIFORNIA.

## MINER'S TOOL.

SPECIFICATION forming part of Letters Patent No. 479,444, dated July 26, 1892.

Application filed October 20, 1891. Serial No. 409,311. (No model.)

*To all whom it may concern:*

Be it known that I, NATHAN W. MOODEY, a citizen of the United States, residing at Fresno, in the county of Fresno and State of California, have invented a new and useful Miner's Tool, of which the following is a specification.

This invention relates to a pocket-tool for miners, and has special reference to an improvement upon a patent granted me July 15, 1890, and bearing No. 432,427.

As is well known among miners and others familiar with the handling of fuses, it is necessary in order that the same may ignite quickly to split the ends thereof.

The object of my present invention is to provide a tool similar in construction to the tool covered by the above-mentioned patent, but possessing the additional feature of a cutter or fuse-splitter, and this, too, without the addition of any elements not contained in the patented construction and without increasing the consequent cost thereof.

With the above objects in view the invention consists in substituting for the entering end of one of the interlocking jaws a keen knife, or, in other words, in forming said entering end into a knife or blade, whereby it not only serves the purpose as such, but also the same purpose as in the previous patent—namely, to interlock and maintain the jaws in alignment and against springing apart, whereby the crimp of the cap is made continuous or completes a circle, and hence prevents the admission of moisture thereto.

Referring to the drawings, Figure 1 is an elevation of a tool constructed in accordance with my invention and open. Fig. 2 is an end view, a fuse being shown dotted in position. Fig. 3 is a side view, partly broken away, of the tool in its closed position.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 2 designate the opposite members, which are provided near their upper ends with the disks 3, notched at diametrically-opposite sides, as shown at 4, and having their edges beveled to form cutters for cutting the fuses into proper lengths. The two members are pivoted, at 5 concentric with their disks, and at one side of the disks form handles 6, while the opposite ends at the opposite sides of the disks are shaped to form a pair of jaws 7.

The jaws 7 have their inner edges oppositely beveled at 8 to form crimpers, each edge being a substantial semicircle, so that when the jaws are brought together they complete a circle, and by the introduction of the capped end of a fuse therein said cap may be crimped or an annular groove formed in the same near its edge, so that the water or other moisture cannot enter. The extremity of one of the jaws is provided with a V-shaped notch or socket 10, while the opposite member or jaw is provided with or terminates in a reduced beveled cutter or knife 11, adapted to fit within and interlock with said notch. The cutter is in line with the center of the inner edge of the jaw, and hence when the two jaws are brought together the said knife forms within the notch a continuation of the crimping-edge of the opposite jaw, whereby a crimp made upon the cap is continuous and of a uniform depth or degree the entire length of the same.

By the interlocking of the two jaws the same are prevented from spreading during the operation of crimping, which function was performed in the heretofore-mentioned patent; but it will be seen that by the provision of the knife the same performs an additional function to that of an interlocking end in that the end of a fuse laid within the notch of one jaw may be split by the bringing of the two jaws together. In this operation of splitting the fuse the notch serves as a holder for the fuse, supporting the same in proper position, so that the knife may enter opposite the axial center of the fuse, and thus divide the same longitudinally, exposing the explosive and insuring ignition.

From the foregoing description, in connection with the accompanying drawings, it will be seen that I provide a convenient pocket-tool for miners, which tool is adapted to cut and split the fuse and successfully and efficiently crimp the cap upon the end of the same, whereby the operation of capping the fuse is greatly facilitated and the length of time usually required to perform the same reduced.

Having described my invention, what I claim is—

As an improved article of manufacture, the implement for the use of miners in fastening

caps on giant-powder fuses and splitting the  
same preparatory to igniting, made, essen-  
tially, in the form of pliers, the same having  
jaws 7 7, semicircular and beveled at 8 to  
5 form crimpers, and also provided, respectively,  
with a tongue and notch arranged in the trans-  
verse middle of their free ends and adapted  
to engage, the notch being V-shaped and the  
tongue being beveled and sharpened to fit

snugly in the notch, substantially as and for the  
purpose specified.

In testimony that I claim the foregoing as  
my own I have hereto affixed my signature in  
the presence of two witnesses.

NATHAN W. MOODEY.

Witnesses:

W. W. EDEN,  
JARVIS STREETER, Jr.