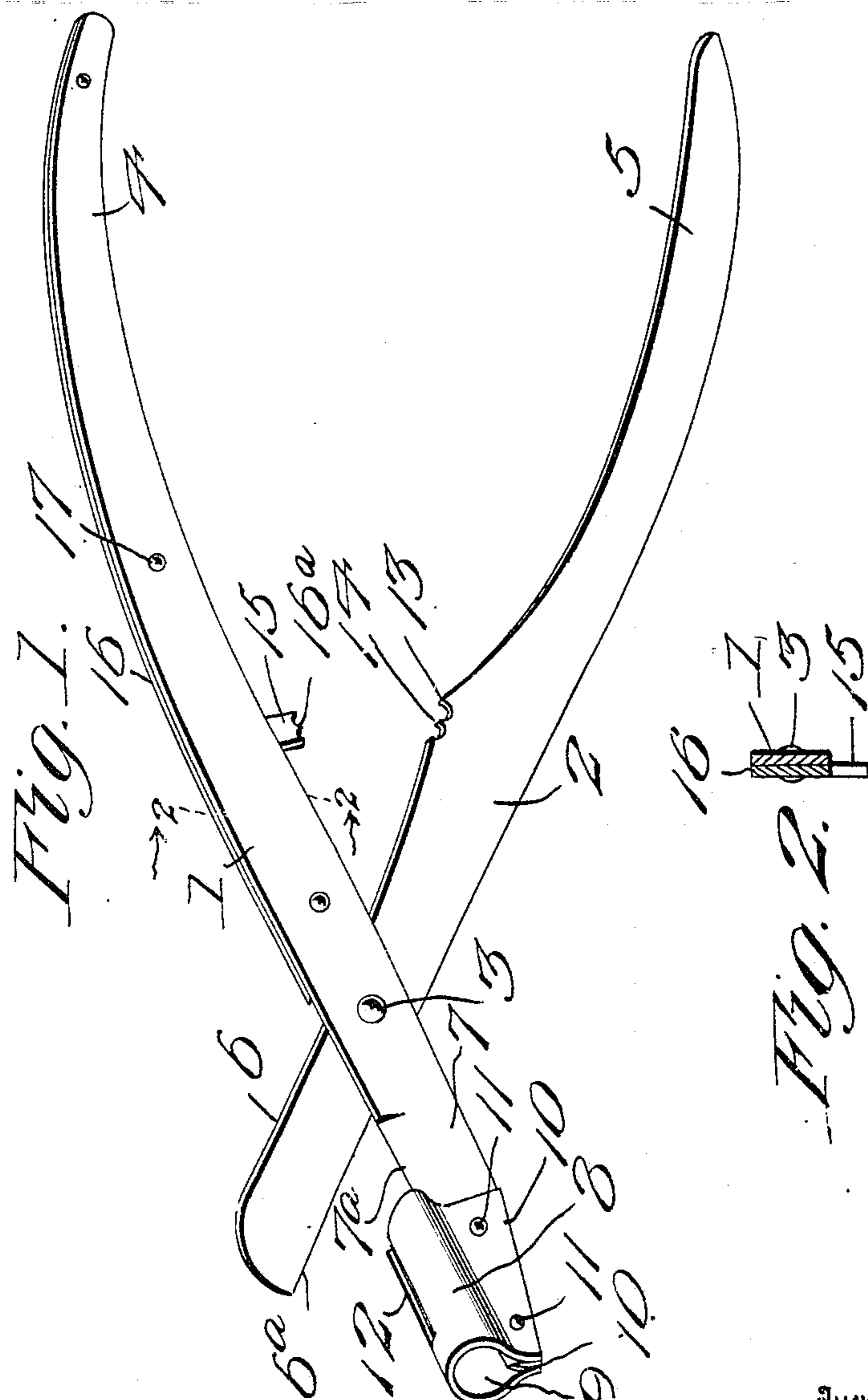


No. 847,923.

PATENTED MAR. 19, 1907.

C. ELLIOTT.
MINER'S FUSE TOOL.
APPLICATION FILED OCT. 17, 1905.



Witnesses

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MINER'S FUSE-TOOL.

No. 847,923.

Specification of Letters Patent.

Patented March 19, 1907.

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To all whom it may concern:

Be it known that I, CHARLES ELLIOTT, a citizen of the United States, residing at Scammon, in the county of Cherokee and State of Kansas, have invented new and useful Improvements in Miners' Fuse-Tools, of which the following is a specification.

My invention relates to miners' fuse-tools; and its primary object is to provide a novel and highly useful device of this character by means of which one end of a fuse may be split longitudinally to facilitate the lighting thereof, by means of which one end of the fuse may be severed transversely to prepare it for the reception of a dynamite-cap and by means of which the cap may be crimped to secure it to the fuse, whereby the preparation of a fuse is rendered comparatively easy and may be done readily and quickly and without danger.

A further object of the invention is to provide a device of this character which comprises but few parts—one which is simple and durable of construction and one which may be manufactured and sold at a comparatively low cost.

With the above and other objects in view the invention consists in the construction, combination, and arrangement of parts hereinafter fully described, claimed, and illustrated in the accompanying drawings, wherein—

Figure 1 is a perspective view of a miners' fuse-tool constructed in accordance with my invention, and Fig. 2 is a sectional view on the line 2 2 of Fig. 1 looking in the direction indicated by the arrow.

Referring to the drawings by reference-numerals, 1 and 2 designate members which are pivotally connected at a point adjacent their forward ends by means of a post 3. The rear portions of the members 1 and 2 are formed to provide handles 4 and 5, respectively. That portion of the member 2 which is located beyond the pivot 3 forms a cutting-blade 6, which is provided with a cutting edge 6^a, and that portion of the member 1 which is located beyond the pivot 3 also forms a cutting-blade 7, which is provided with a cutting edge 7^a. The cutting edge 7^a is offset, as disclosed in Fig. 1 of the drawings, to position it for cooperation with the cutting edge 6^a, said cutting edges providing means by means of which the fuse may be split longitudinally or severed transversely. Secured to the cutting-blade 7 and disposed over the cutting

edge 7^a thereof is a fuse-guide 8. The fuse-guide 8 is made preferably from a single blank of suitable metal and is bent intermediate its ends to provide a fuse-receiving portion 9 and attaching-flanges 10. The attaching-flanges 10 engage on opposite sides of the cutting-blade 7, and the guide is secured in applied position by means of rivets 11, passed through the flanges 10 and engaging said cutting-blade 7. The fuse-receiving portion 9 of the guide 8 is slitted for a portion of its length to provide an opening 12, through which the cutting-blade 6 passes during the operation of splitting a fuse longitudinally. The guide 8 does not extend over the entire cutting edge 7^a, whereby to provide a portion of said cutting edge for the purpose of severing a fuse transversely, as will be apparent.

The inner longitudinal edge of the member 2 is cut out to provide a dynamite-cap-crimping recess 13, said cap-crimping recess being provided with an upstanding tang 14. A cap-crimping die coöperates with the recess 13 to crimp a dynamite-cap and secure the same to a fuse. The die 15 is formed integrally with and depends from a plate 16, said plate being so secured to the member 1 and its handle 4 that the die 15 will coöperate with the recess 13 when the handles 4 and 5 have been caused to approach each other. The plate 16 is secured in applied position by means of rivets 17, and the forward end thereof is so disposed as to coöperate with the member 2 and limit the opening of the cutting-blades 6 and 7, opening movements of said blades being sufficient to permit of the insertion of a fuse between the unexposed portion of the cutting edge 7^a and cutting edge 6^a. The die 15 is also provided with a tang 16^a, it being apparent that the formation of the recess 13 and the working face of the die 15 is such that a dynamite-cap may be crimped and secured to a fuse in such a manner that the same will be water-tight.

It is apparent that one end of a fuse may be split longitudinally to facilitate the lighting thereof by inserting one end of a fuse in the guide 8 and causing the cutting-blade 6 to approach the cutting-blade 7, that a fuse may be prepared for the reception of a dynamite-cap by means of the cutting edge 6^a and the exposed portion of the cutting edge 7^a, that the cap may be crimped upon a fuse without danger to the operator by inserting the cap in the recess 13 and causing the die 15 to forcibly engage the cap, and that I pro-

vide a tool by means of which the preparation of a fuse for use is rendered comparatively easy and by means of which the fuse may be prepared readily and quickly.

5 Changes in the form, proportions, and minor details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

10 Having fully described and illustrated my invention, what I claim is—

A miner's fuse-tool comprising a pair of pivotally-connected members, those portions of the members located beyond the pivot
15 forming cutting-blades, the cutting edge of one of the blades being offset to position it for

coöperation with the cutting edge of the other blade, and a guide secured to and partially housing the cutting edge of one of the blades, said guide being constructed from a single
20 blank of material bent to provide a fuse-receiving portion and attaching-flanges, the fuse-receiving portion being provided with an opening extending longitudinally through a portion of its length to permit the coöpera-
25 tion of the blades.

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

CHARLES ELLIOTT.

Witnesses:

WM. GRADY,

HENRY TOUME.