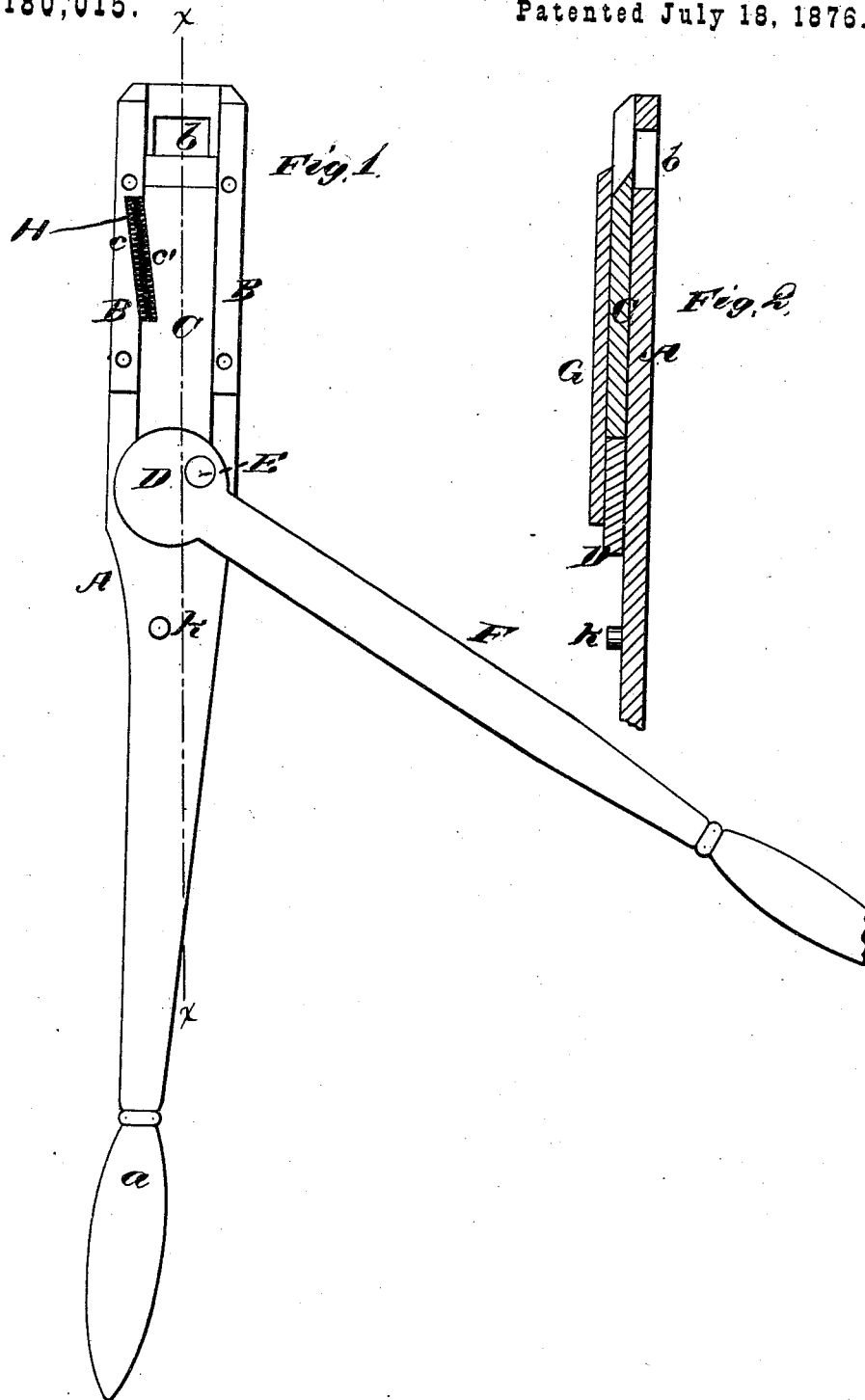


T. W. ELLIS.  
BOLT-TRIMMER.

No. 180,015.

Patented July 18, 1876.



WITNESSES

*No. S. Utley.*  
*E. H. Bates*

INVENTOR.

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# UNITED STATES PATENT OFFICE.

THOMAS W. ELLIS, OF GREELEY, IOWA.

## IMPROVEMENT IN BOLT-TRIMMERS.

Specification forming part of Letters Patent No. **180,015**, dated July 18, 1876; application filed June 10, 1876.

*To all whom it may concern:*

Be it known that I, THOMAS W. ELLIS, of Greeley, in the county of Delaware and State of Iowa, have invented a new and valuable Improvement in Bolt-Trimmers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my bolt-trimmer, and Fig. 2 is a vertical section through *x x*.

This invention relates to bolt-trimmers; and it consists in the novel construction and arrangement of the parts, as will be hereinafter more fully set forth, and pointed out in the claim.

In the annexed drawings, A represents a plate constructed with a handle, *a*, at one end, and a perforation, *b*, at the other end, so as to allow the insertion of the end of the bolt which is to be trimmed. The upper side of plate A is provided with vertical longitudinal guide-flanges B on both sides of perforation *b*. Between these flanges slides a chisel, C, which trims the bolt. Chisel C is forced forward for trimming by an eccentric, D, pivoted to plate A at E, and actuated by a

lever-handle, F. One of the flanges, B, is recessed at *c*, as shown in Fig. 1, and the chisel C is similarly recessed at *c'*. In the space left by these recesses I place a spring, H, of any suitable construction, which operates after each cutting-stroke to replace the sliding chisel C in its first position against the eccentric D, so that it can be a second time operated thereby. G is a pivoted cap, which protects spring H and chisel C; but this cap may be turned out of the way to allow the inspection or removal of said spring and chisel.

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

In a bolt-and-rod cutter, the plate A, having its upper side provided with vertical longitudinal guide-flanges B, and chisel C, one of said flanges and chisel being recessed to receive a spring, H, in combination with the pivoted cap G, and with the means for advancing the chisel, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THOMAS WALTER ELLIS.

Witnesses:

S. V. HUBBELL,  
J. BAKER.