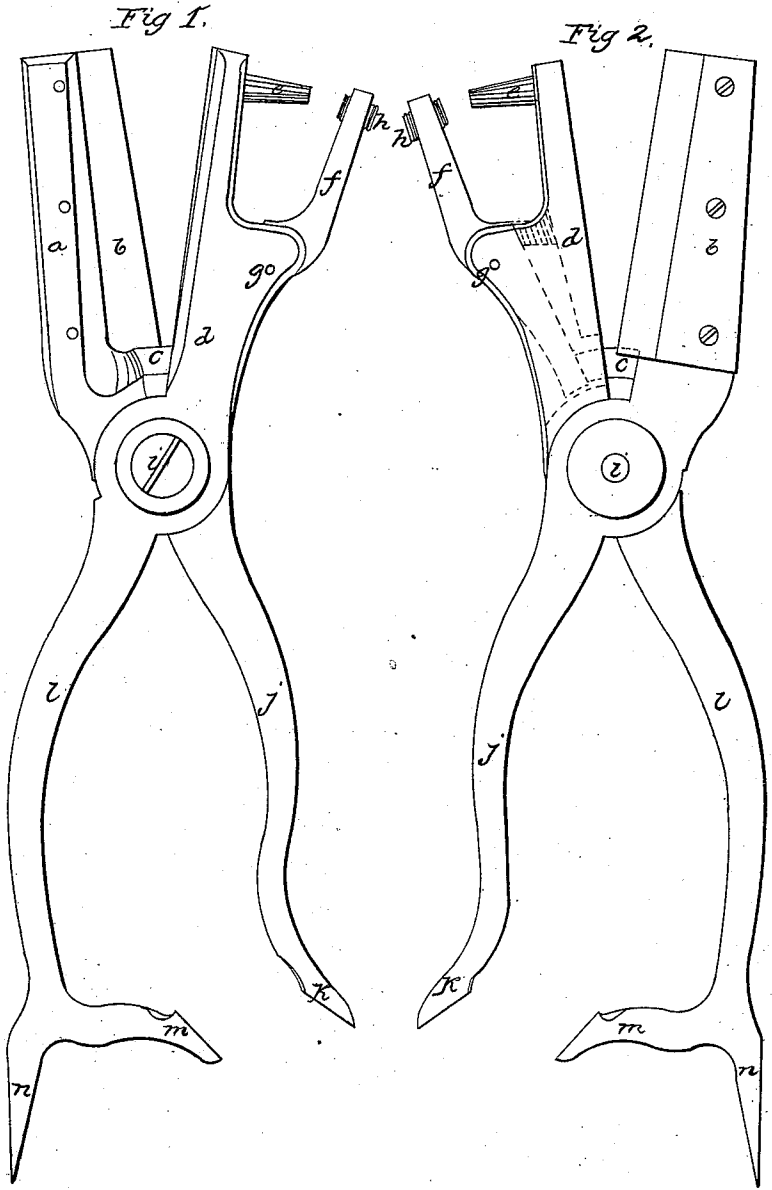


*M. C. Goodale,*

*Leather Punch.*

*N<sup>o</sup> 70,711.*

*Patented Nov. 12, 1867.*



*Witnesses:  
Abel Levy  
Geo. C. Perry*

*Inventor:  
Moses L. Goodale*

# United States Patent Office.

MOSES C. GOODALE, OF LOWELL, MASSACHUSETTS, ASSIGNOR TO HIMSELF  
AND LOUIS GODDER, OF THE SAME PLACE.

Letters Patent No. 70,711, dated November 12, 1867.

## IMPROVED BELT-CUTTER.

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, MOSES C. GOODALE, of Lowell, in the county of Middlesex, and State of Massachusetts, have invented new and useful improvements in Combination Belt-Cutters; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention relates to the combination of all the necessary implements or tools requisite for making new belts or repairing them.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 represents a side elevation of one side of my improved combination belt-cutter.

Figure 2 represents a side elevation of the opposite side of the same.

Similar letters in the different figures indicate corresponding parts.

*a* represents the knife-jaw, to which the knife *b* is secured. To this jaw *a* also the projection *c* is cast. *d*, the punch-jaw presenting the cutter seat, to which the punch *e* is secured in the usual way. Also to this jaw *d* the arm *f* is pivoted or hung at the fulcrum *g*. At the extreme end of the arm *f* is the punch-seat *h*. In the jaw *d* a slot or mortise is made for the reception of the arm *f* and projection *c*. The jaws *a* and *d* cross each other, and are secured and work by a joint and screw, *i*. This screw *i* forms a fulcrum for the handle *j*, which is a continuation of the jaw *a*. At the extreme end of this handle *j* is one jaw of the pliers *k*; also the handle *l* is a continuation of the jaw *d*. Near the extreme end of the handle *l* is the other jaw *m* of the pliers, standing at about right angles with the handle *l*. At the extreme end is the belt-awl *n*.

### Operation.

The user, on taking this instrument in hand, without being obliged in the usual way to take up each tool separately, as may be required, is enabled at once, and with dispatch, to cut the belt straight and square, as required, by means of the knife *b*, make the holes for lacing the same by aid of the punch *e*, then, if the holes are required to be made larger, as is often the case, the awl *n* is at hand and ready to be applied for that purpose. Still holding the instrument, in drawing the lacing through the holes, he has the aid of the pliers to assist in this most laborious and difficult part, formed by the jaws *k* and *m*. This entire operation is performed, while being held in the hand, by contracting and relaxing the handles *j* and *l*.

The value and usefulness of this instrument must be apparent, for, on every extremity of the same, there is a useful tool, combining and connecting in one all the tools that are required for this one purpose, and its entire weight, of the whole collectively, not exceeding the weight of one separately.

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

The arm *f*, with its punch-seat *h*, when arranged to operate substantially as described and fully set forth.

I also claim the arrangement and construction of the knife *b*, awl *n*, and punch *e*, in combination with the pliers *k* and *m*, all for the purposes substantially as herein described.

MOSES C. GOODALE.

Witnesses:

ABIEL PEVEY,  
GEO. E. PEVEY.