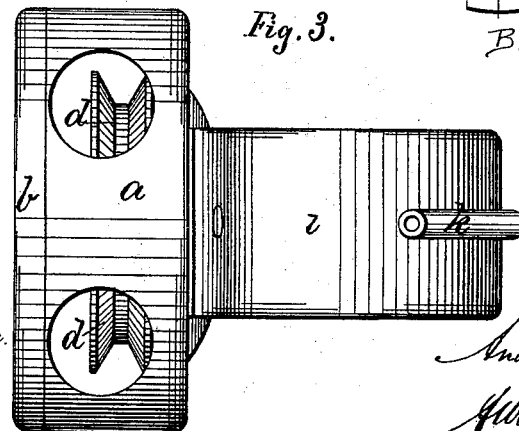
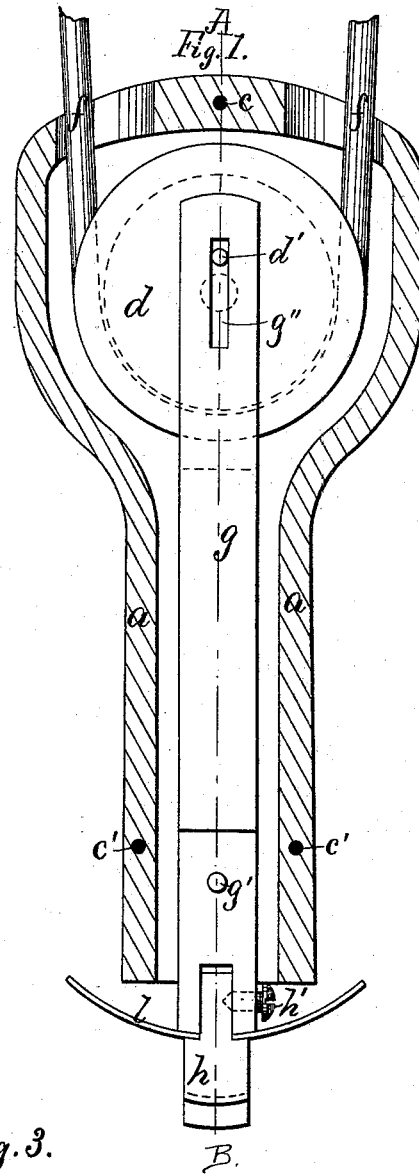
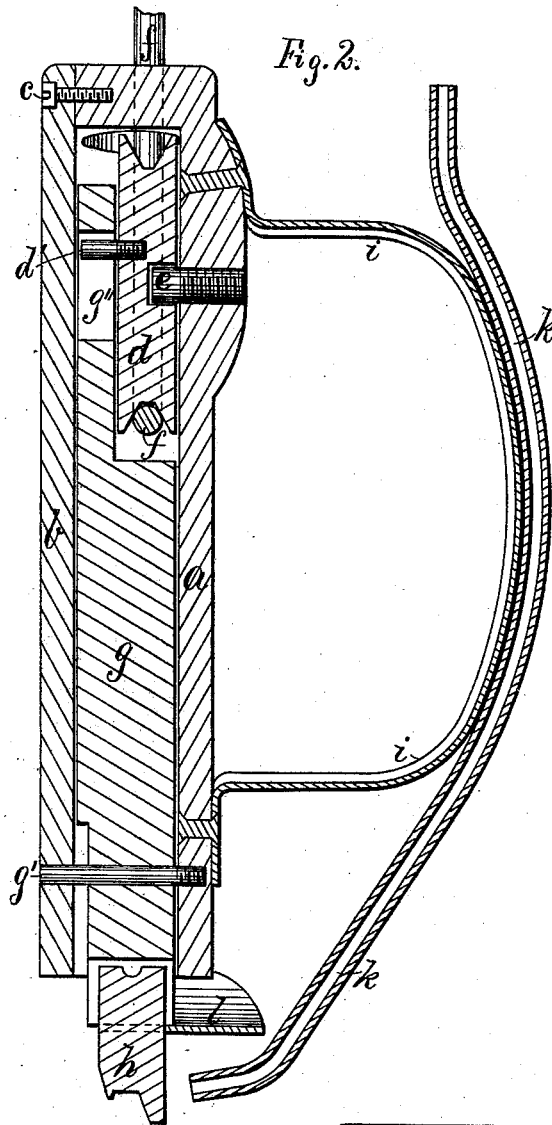


A. W. ROGERS.  
 Boot and Shoe Sole-Edge Setting-Machines.

No. 219,021.

Patented Aug. 26, 1879.



Witnesses:

Henry Chadbourne.

Jos C. Torrey

Inventor.

Andrew W. Rogers  
 by  
 Alvan Andrews.  
 his atty

# UNITED STATES PATENT OFFICE.

ANDREW W. ROGERS, OF SALEM, MASSACHUSETTS.

## IMPROVEMENT IN BOOT AND SHOE SOLE EDGE-SETTING MACHINES.

Specification forming part of Letters Patent No. 219,021, dated August 26, 1879; application filed July 24, 1879.

*To all whom it may concern:*

Be it known that I, ANDREW W. ROGERS, of Salem, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Edge-Setting Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in edge-setting machines for boot and shoe soles; and it consists of a hollow handle or frame, in the interior of which is located a cord or belt pulley that is free to rotate on a pin or stud secured to the handle. The said pulley is provided with a crank-pin on its face, which pin projects into a slotted hole in the upper end of the reciprocating edge-tool holder, that is supported on a fulcrum-pin near its lower end, on which fulcrum it is caused to reciprocate during the rotation of the cord-pulley, as aforesaid. The latter is set in a rotary motion around its axis by means of an endless belt, band, or cord from an overhead pulley in a similar manner to conveying motion on ordinary edge-setting machines.

The edge-tool is secured to the lower end of the reciprocating edge-tool holder.

A gas-pipe is attached to the handle, and its lower end terminates in close proximity to the edge-tool, where the gas is ignited for the purpose of heating the said tool, as usual.

A shield is secured to the lower end of the reciprocating tool-holder, so as to prevent the gas-jet from heating the handle of the machine, which is held by the operator.

The operation of the machine is as follows: The operator grasps the handle of the machine firmly, and the rotary crank-wheel being set in motion around its axis, as aforesaid, a reciprocating motion is automatically imparted to the edge-setting tool, very similar to the usual hand labor, and all the operator has to do is to press the tool against the edge of the sole and move it around the shoe, that is supported on a suitable jack attached to the table or work-bench, in the ordinary manner.

On the accompanying drawings, Figure 1 represents a front elevation of the machine,

with its plate or cover shown detached. Fig. 2 represents a vertical section on the line A B, shown in Fig. 1; and Fig. 3 represents a plan view.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

*a* is the case or handle, and *b* is its plate or cover, secured to the former by means of screws *c c'*.

*d* is the rotary cord-pulley, that is free to rotate on the pin or stud *e*, as shown.

*f* is the cord or band by which the rotary motion is conveyed to the pulley *d* from a suitable overhead-pulley, as described.

*d'* is the crank-pin, secured to the face of the cord-pulley *d*, as shown.

*g* is the reciprocating edge-tool holder or bar, hinged in its lower end to the stationary fulcrum-pin *g'*, and provided in its upper end with a slotted perforation, *g''*, through which the crank-pin *d'* projects, as and for the purpose set forth.

*h* is the edge-tool, secured to the lower end of the tool-holder *g* by means of the set-screw *h'* or similar device.

*i* is a guard or hand-rest, secured to the side of the frame or case *a*.

*k* is the gas-pipe for supplying the heat to the edge-tool *h*, as described.

*l* is a shield in the lower end of the tool-holder *g*, for the purpose of preventing the latter, as well as the handle or case *a*, from getting heated by the burning gas-jet at the lower end of the gas-pipe *k*, as set forth.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim—

The herein-described edge-setting machine, consisting of the handle or case *a*, rotary cord-pulley *d*, with its crank-pin *d'*, the reciprocating tool-holder *g*, movable on the fulcrum pin *g'*, and having slotted perforation *g''* in its upper end, and edge-tool *h*, attached to its lower end, substantially as and for the purpose set forth.

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

ANDREW W. ROGERS.

Witnesses:

ALBAN ANDRÉN,

HENRY CHADBOURN.