

No. 648,061.

Patented Apr. 24, 1900.

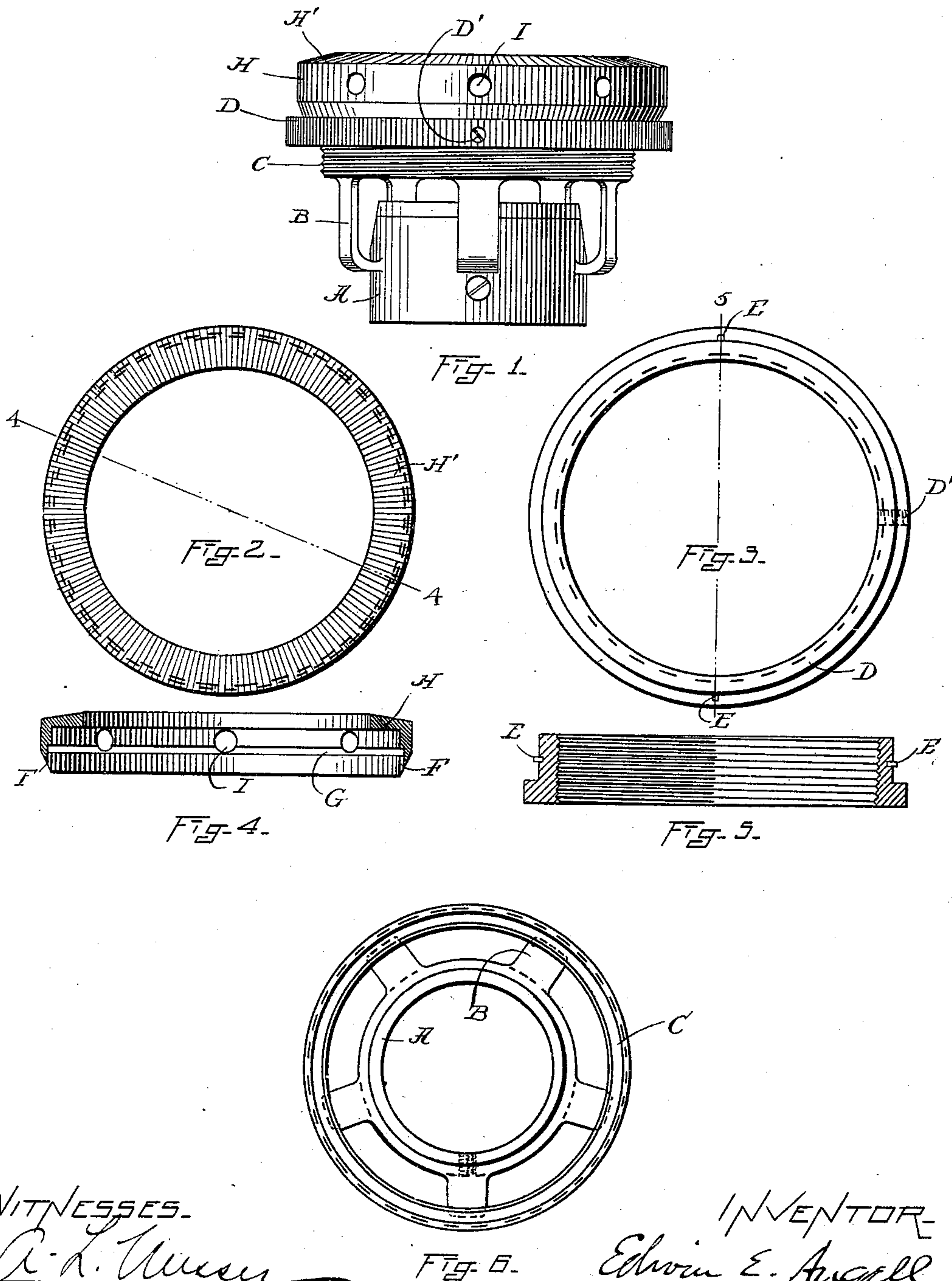
E. E. ANGELL.

SOLE GUARD FOR BOOT OR SHOE TRIMMING MACHINES.

(Application filed Mar. 11, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES.

A. L. Vassar

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Fig. 6.

INVENTOR.

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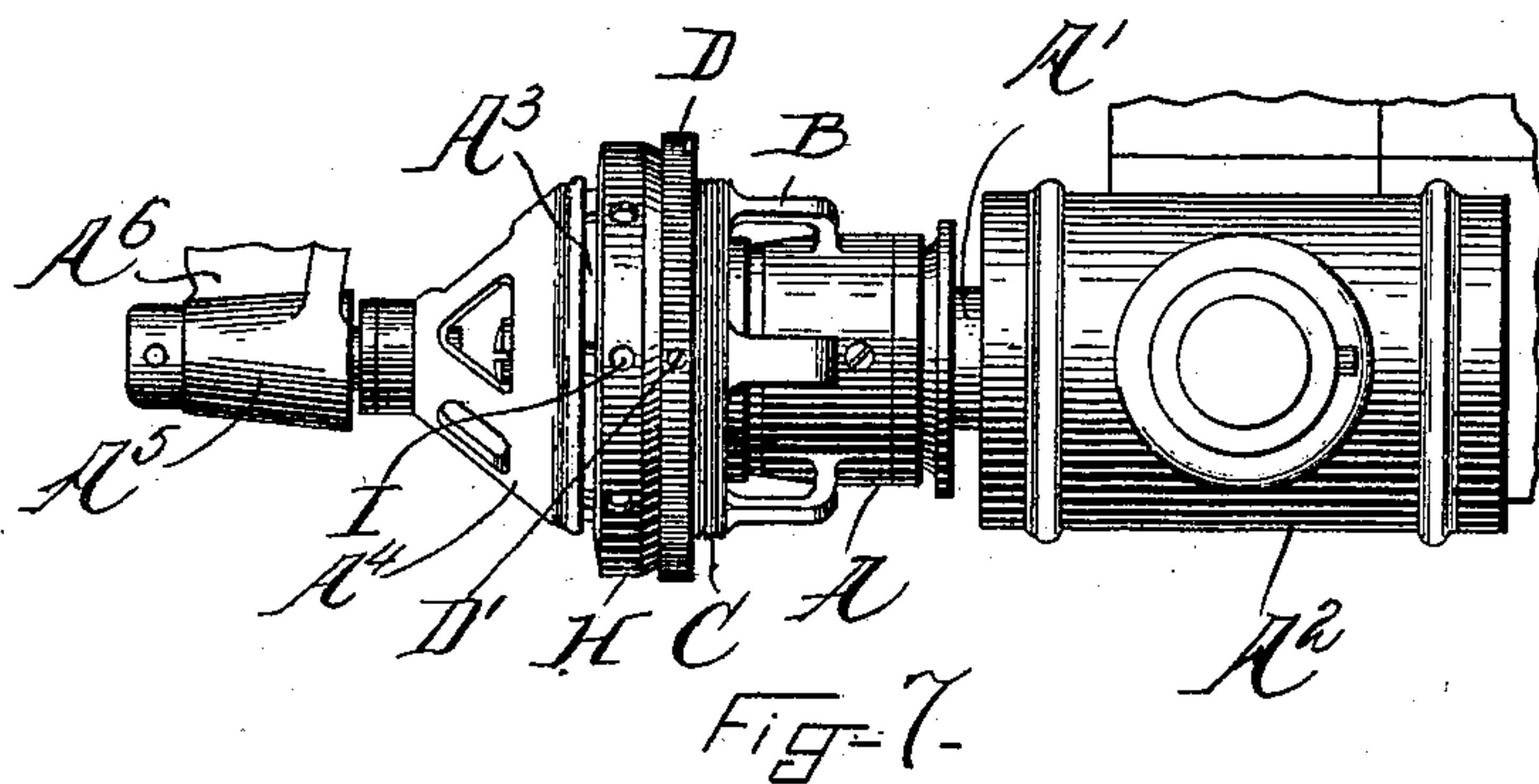
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WITNESSES.

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C. A. Stewart

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A 17

UNITED STATES PATENT OFFICE.

EDWIN E. ANGELL, OF SOMERVILLE, MASSACHUSETTS, ASSIGNOR TO THE
AMERICAN SHOE MACHINERY COMPANY, OF PORTLAND, MAINE.

SOLE-GUARD FOR BOOT OR SHOE TRIMMING MACHINES.

SPECIFICATION forming part of Letters Patent No. 648,061, dated April 24, 1900.

Application filed March 11, 1899. Serial No. 708,673. (No model.)

To all whom it may concern:

Be it known that I, EDWIN E. ANGELL, of Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Boot or Shoe Trimming Machines, of which the following is a specification.

My invention relates to machines adapted to trimming and randing the soles of boots and shoes; and the object of my invention is to provide for the free working on the sole-guard at all times. By my construction the fine dust which works under the sole-guard onto the bearing passes out through openings in the sole-guard, and thus prevents the clogging of the sole-guard on its bearing.

My invention is in the nature of an improvement on the mounting of the sole-guard, as shown in my application, Serial No. 706,561, filed February 23, 1899.

In the accompanying drawings, which illustrate a construction embodying my invention, Figure 1 is a side view of my improved sole-guard and holder. Fig. 2 is a plan view of the sole-guard. Fig. 3 is a plan view of the sole-guard and adjustable ring. Fig. 4 is a cross-sectional view through the sole-guard. Fig. 5 is a cross-sectional view through the adjustable ring. Fig. 6 is a plan view of the sole-guard holder. Fig. 7 is a top plan view of a part of the machine, showing my improvements applied thereto.

Like letters of reference refer to like parts throughout the several views.

The sole-guard holder A surrounding shaft A' is provided with arms B, which carry at their extreme ends the externally-screw-threaded ring C, on which is secured the adjustable ring D, held in its adjusted position by the set-screw D'. The adjustable ring D is internally screw-threaded, as shown, so as to be adjusted on the ring C. The ring D is provided with two oppositely-located pins E, which in placing the sole-guard onto the ring D pass up through the vertical slots F into the transverse circular slot G, located around the inner periphery of the sole-guard H, which is corrugated on its outer surface, as shown at H', in order to grip the leather in the op-

eration of the machine. As thus constructed the sole-guard in the operation of the machine turns with the work and is held in place on the ring D by the pins E, which move around in a circular slot G.

The fine dust which works onto the bearing under the sole-guard is forced out through the openings I by the pins E in the revolution of the sole-guard. By this means the slot is kept clear, and as each pin comes opposite the openings the fine dust, which would otherwise clog the bearings, is forced out, as above described.

As shown in Fig. 7, the cutter A³, of usual construction, is mounted upon the end of the shaft A', supported by the bearings A², one of which is shown in said figure, and over the cutter A³ is located the cutter-guard A, mounted on the hub A⁵, carried by the movable arm A⁶, and said guard is capable of being removed from proximity to the cutter A³ when it is desired to gain access to said cutter.

I do not limit myself to the arrangement and construction shown, as the same may be varied without departing from the spirit of my invention.

Having thus ascertained the nature of my invention and set forth a construction embodying the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

In a boot and shoe trimming machine, a sole-guard holder, a ring adjustable on said holder and provided with one or more projecting pins, and a sole-guard loosely mounted on said ring to move with the work and having an inner annular slot in which are located the pins on the adjustable ring and provided with one or more slots opening into said annular slot and through which said pins pass in locating the guard on the ring.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 8th day of March, A. D. 1899.

EDWIN E. ANGELL.

Witnesses:

W. A. LUSCOMB,
B. M. KIMBALL.