

**J. DARGAN.**  
**MACHINES FOR CHANNELING THE SOLES OF BOOTS AND SHOES.**  
 No. 180,419. Patented Aug. 1, 1976.

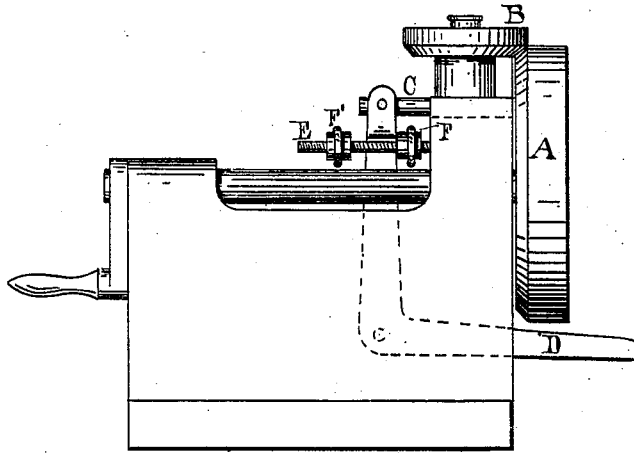


Fig. 1.

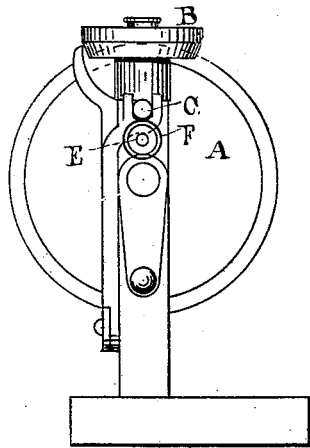


Fig. 2.

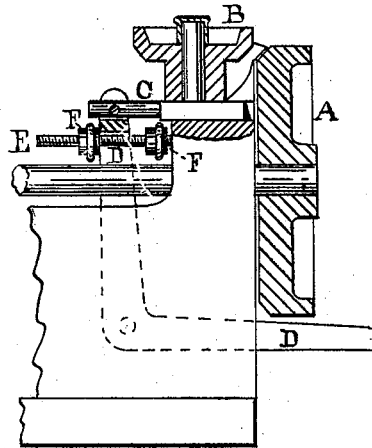


Fig. 3.

WITNESSES

*B. S. Parker*  
*Frederic Raymond*

*James Dargan*  
 INVENTOR  
 by his Atty

*Handwritten signature*

# UNITED STATES PATENT OFFICE.

JAMES DARGAN, OF BOSTON, ASSIGNOR TO JOHN E. WHEELER, OF LYNN,  
MASSACHUSETTS.

## IMPROVEMENT IN MACHINES FOR CHANNELING THE SOLES OF BOOTS AND SHOES.

Specification forming part of Letters Patent No. **180,419**, dated August 1, 1876; application filed  
May 19, 1876.

*To all whom it may concern:*

Be it known that I, JAMES DARGAN, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Sole-Channeling Machines, of which the following is a specification:

This invention has for its object the adjustability of the guide in relation to the cutting and grooving mechanism to effect irregular channeling and variations in distance from the sole-edge.

Reference is had to the accompanying drawing, forming a part of this specification, in explaining the same, in which—

Figure 1 is a plan. Fig. 2 is an end elevation; and Fig. 3 is a sectional view.

The guide B is circular in shape, and preferably is made to revolve, and is provided with a horizontal movement to and from the cutting and grooving knives on the rod A, when operated by the lever C. Two nuts or stops, F F', on the threaded rod E, act to provide a limit to the adjustability by contacting with the operating lever C.

It will thus be seen, as the sole is fed to the knives (which are not shown in the drawing) by the feed-roll A, that the edge will bear against the circular guide, and that any varia-

tion in the location of the channel with reference to the sole-edge can be made by the operator at any desired point as the channeling progresses, the guide being under the immediate control of the operator through the lever D.

By this means a simple and easy adjustment, capable of any degree of variation, is effected.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the revolving circular guide B, with the rod C and lever D, when arranged to operate the guide to and from the feed-rolls, substantially as and for the purpose described.

2. The adjustable stops F F', when arranged upon the rod E, to determine the limits of the movement of the guide B to and from the cutting and grooving mechanism, thereby regulating the location of the channel relative to the sole-edge, substantially as set forth.

JAMES DARGAN.

Witnesses:

FREE. F. RAYMOND,  
B. S. PARKER.