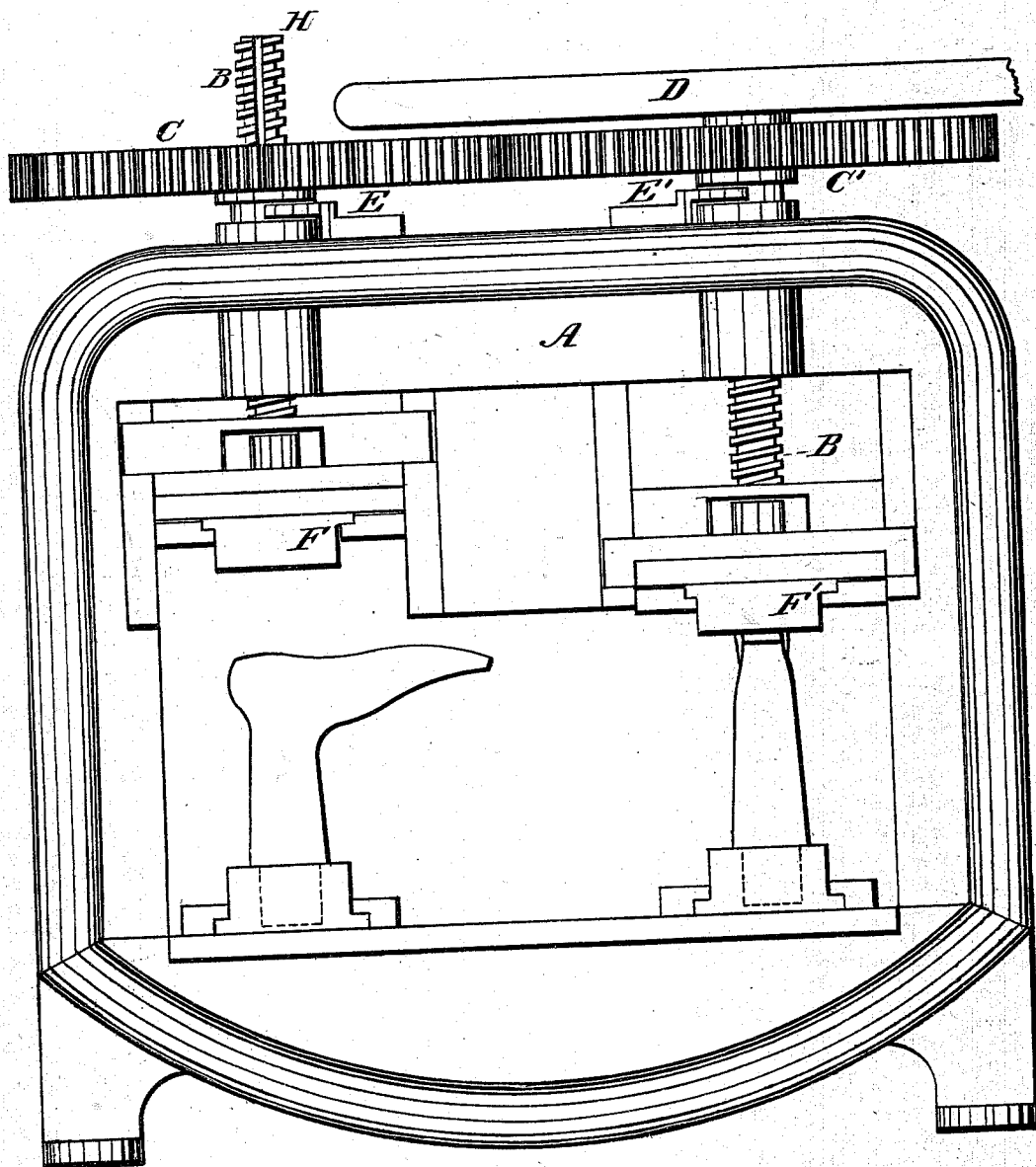


W. A. PERKINS.

Machines for Shaping Shoe-Soles.

No. 146,547.

Patented Jan. 20, 1874.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM A. PERKINS, OF SALEM, MASSACHUSETTS.

IMPROVEMENT IN MACHINES FOR SHAPING SHOE-SOLES.

Specification forming part of Letters Patent No. **146,547**, dated January 20, 1874; application filed November 14, 1873.

To all whom it may concern:

Be it known that I, WILLIAM A. PERKINS, of Salem, in the county of Essex and State of Massachusetts, have invented a Machine for Shaping Shoe-Soles, of which the following is a specification:

My invention relates to the shaping or pressing of the shoe-soles after the shoe is made, and may be regarded as an improvement with reference to the subject-matter of the Patent granted to Elias Blaney, August 22, 1871, No. 118,185, the purpose of the two inventions being the same.

It is designed to render the operation of that class of machines more effective in their operation, to enable it to accomplish more work, and is advantageous in other respects, as is hereinafter set forth.

It consists in an arrangement of two right-handed screws, which depress the formers on to the sole, so connected together that while one is being depressed to shape the sole, the other is being raised to allow another shoe to be placed in position for pressing.

The drawing represents a vertical section of the apparatus employed.

A is the frame of the machine, which is strongly made of cast-iron, or other suitable material. Through the top of this frame are fitted two right-handed screws, B B'. The screws are connected by the gears C C', and are rotated by them by means of a spline, H, fastened to the hub of the gears, and moving in a keyway cut in the screw. A hand-wheel, D, is fastened to the hub of one of the gears,

and the motion given to one is transmitted to the other, in such a manner that one is raised while the other is depressed. The gears are held down to the top of the frame by the forks E E', a groove being cut into the hub of the gear into which the fork fits. The formers F F' are fastened to the ends of the screws, and moved up and down by them.

With respect to the other operative parts of the machine, and the operation of pressing the sole, there is nothing novel in this application, the process being the same as in the patent above referred to.

The advantages to be derived from the arrangement of two screws are, first, no time is lost in elevating the former, as in the machine above referred to—the shoe being lasted and ready to be pressed, the screw is lowered, and by this movement the other shoe, which has been pressed, is released; second, during the time which is occupied in fitting the shoe on one or the other of the lasts, the other shoe is under pressure a sufficient time to give a permanent set to the sole; third, a greater quantity of work may be done with this machine in the same time.

I claim as my invention—

In a machine for shaping shoe-soles, the combination of the screws B B' and gears C C', the formers F and F', all arranged and operating substantially as described.

WM. A. PERKINS.

Witnesses:

J. A. BASSETT,
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