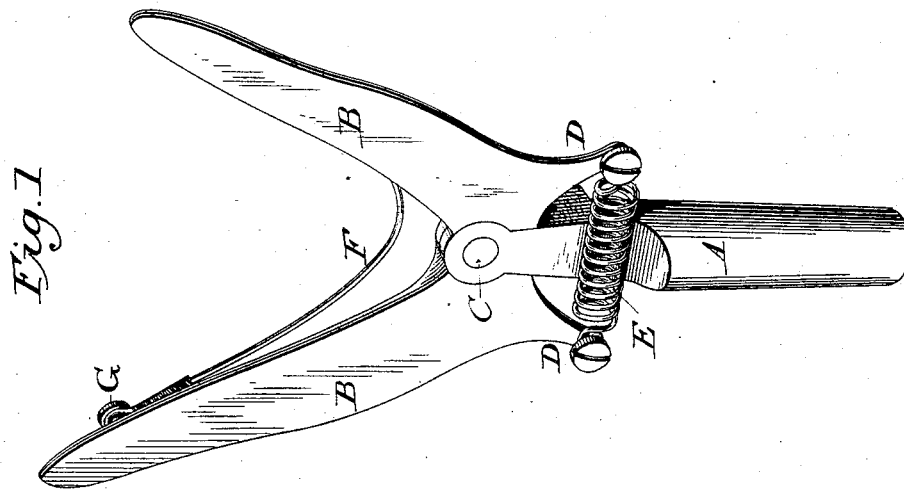
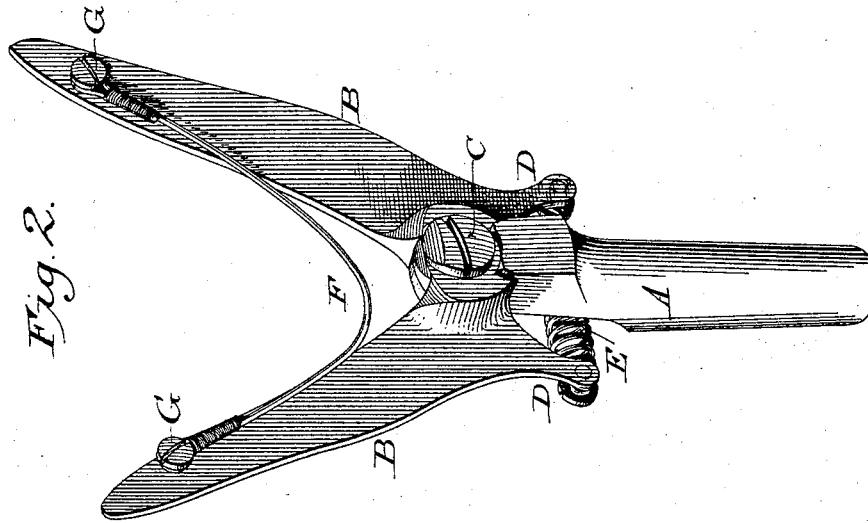


(No Model.)

T. O'BOLGER.
LASTING MACHINE.

No. 455,762.

Patented July 14, 1891.



Attest

Simon P. Hollingsworth
James F. Duhamel

Thomas O'Bolger

Inventor

by his attorneys,

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UNITED STATES PATENT OFFICE.

THOMAS O'BOLGER, OF ROCHESTER, NEW YORK.

LASTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 455,762, dated July 14, 1891.

Application filed November 19, 1890. Serial No. 371,933. (No model.)

To all whom it may concern:

Be it known that I, THOMAS O'BOLGER, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Lasting-Machines, of which the following is a specification.

My invention relates to lasting-machines, and has reference more particularly to the wipers or blades for turning the leather at the heel or toe down upon the insole at the bottom of the last, the invention being designed more particularly as an improvement upon the devices represented in Letters Patent No. 388,577, granted to me August 28, 1888, to which patent reference is hereby made for a general description of the operation of the wipers.

In the drawings, Figures 1 and 2 are perspective views of my improved wipers, looking at them from opposite faces.

A indicates the stock or stem, to which the blades B B are pivoted by means of a screw C. The blades B B are each provided with a tail or extension D, which latter are connected by means of a coil-spring E, tending to keep the operative ends of the blades or wipers separated.

F indicates a loop loosely attached at its ends by means of screws G to the blades or wipers B B near their outer ends, the center of the loop being located a short distance in advance of the screw or pivot C of the blades or wipers B.

When the device is moved in the direction of its length, as described in the patent above referred to, the loop F will first strike the projecting edge of the upper and give to it an approximately circular form, so that by the time the blades themselves come in contact with the upper they will find that the preliminary drawing in of the upper has been completed by the wire, and they will therefore have to perform merely the func-

tion of laying the upper down upon the insole, so as to insure its adhesion to the latter. The action of this wire or loop upon the upper while the latter is held taut by the toe-pinchers is found to give excellent results in practice and has rendered the machine capable of use on shoes made of patent-leather, which, as is well known, is a substance difficult to properly handle by machinery.

By providing the blades with the tails or tensions D, I am enabled to connect the latter by a single spring and thereby dispense with the use of the separate and independent springs heretofore used.

I am aware that lasting-machines have been provided with elastic bands designed to clamp the upper to the last at the toe and heel preparatory to folding the upper over upon the bottom of the last, and to such construction and arrangement I make no claim.

Having thus described my invention, what I claim is—

1. In combination with the stem A, the pivoted blades or wipers and the wire or loop F, substantially as set forth.

2. In combination with the stem A, the blades or wipers B B, pivoted thereto, and the wire F, formed into a loop and attached to the blades or wipers near their ends.

3. The blades or wipers provided with a wire or loop F, located slightly in advance of the pivot of the said blades or wipers.

4. In combination with the stem A, the blades or wipers B B, pivoted thereto and provided each with a tail D, and a spring E, connecting the tails of the blades, all substantially as shown.

In witness whereof I hereunto set my hand in the presence of two witnesses.

THOMAS O'BOLGER.

Witnesses:

CHARLES MÖLLER,
CARL BORNGRAEBER.