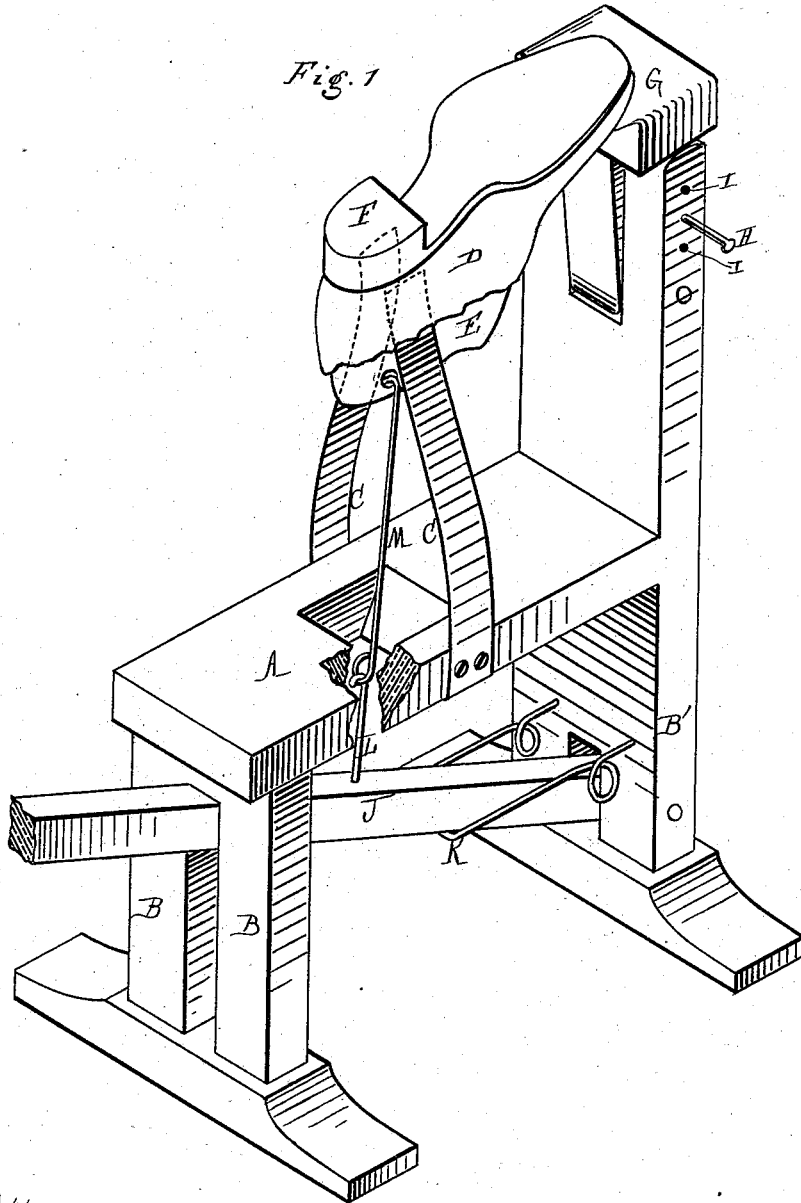


C. C. JOHNSON.
Last-Pulling Machine.

No. 205,100.

Patented June 18, 1878.



Attest:

A. Garthel
Notary

Inventor:

C. C. Johnson
By Atty
Thos. S. Sprague

UNITED STATES PATENT OFFICE.

CHARLES C. JOHNSON, OF SPRINGFIELD, VERMONT, ASSIGNOR TO JOHN N. PATTON, OF SAME PLACE.

IMPROVEMENT IN LAST-PULLING MACHINES.

Specification forming part of Letters Patent No. **205,100**, dated June 18, 1878; application filed May 9, 1878.

To all whom it may concern:

Be it known that I, CHARLES C. JOHNSON, of Springfield, in the county of Windsor and State of Vermont, have invented an Improvement in Last-Pulling Machines, of which the following is a specification:

The nature of my invention relates to the construction of a machine by means of which lasts may be withdrawn from boots and shoes with ease, and without danger of injury to the boot or shoe, by pounding or hammering the same, as is ordinarily done to disengage the last before the hook in common use is applied, to withdraw it.

In the accompanying drawing, which forms a part of this specification, A is a table or platform supported upon legs B B', and to it are secured the arms C, which are preferably made of spring-steel, and their upper ends are designed to be inserted into the boot or shoe D, and embrace the two sides of the last E immediately under the heel F, against the inner surface of which the upper ends of said arms C impinge. G is a concave block or toe-piece pivoted to the upper portion of the leg B', which projects above the plane of the table A for that purpose. This toe-piece is so pivoted that it may be vertically and horizontally adjusted by means of the bolt H and corresponding holes I in the standard and shank of the block. J is a foot-lever pivoted to the lower part of the leg B', while its free end has a ver-

tical reciprocating motion between the front legs B. A helical spring, K, which may be single or double, as shown in the drawing, is so arranged with relation to the leg B' and the foot-lever J that it will hold the latter in the position shown in the drawing, except when the lever is forcibly depressed. This lever J has secured to it a hook, L; and M is an ordinary last-hook, provided with a loop at its lower end to engage with the hook L.

In practice, the boot or shoe, with the last inside, is drawn down over the ends of the arms until the upper ends thereof embrace the two sides of the last and impinge against the inner bottom of the boot or shoe heel, the toe resting upon the toe-piece G. The hook M being inserted in the last in the ordinary way, its loop is engaged with the hook L, and the depression of the lever J, by pressure of the foot or otherwise, will quickly and easily withdraw the last.

What I claim as my invention is—

The improved last-pulling machine, consisting of a table, A, the arms C C attached to such table, the pivoted foot-lever J, hook L, and adjustable toe-piece G, all constructed and arranged substantially as described and shown.

CHARLES C. JOHNSON.

Witnesses:

HENRY STANLEY,
M. GILBERT.