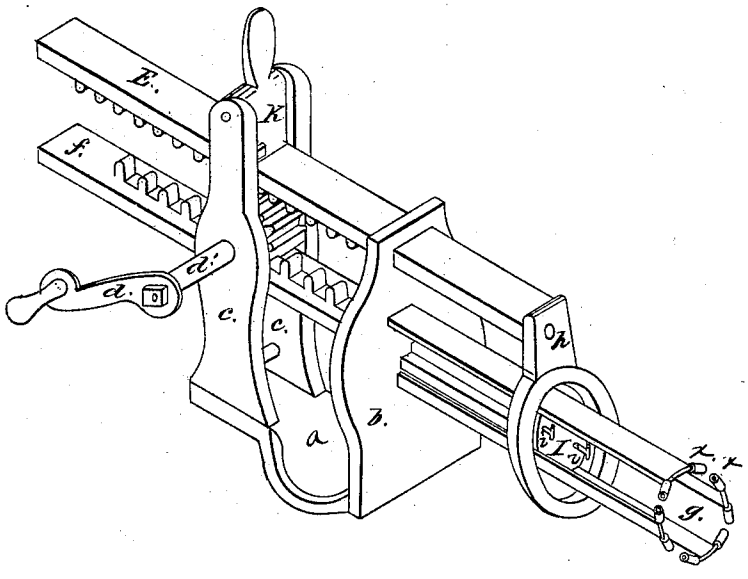
Chamberlain & Filkins,

Boot-Leg Turner,

No. 16,123. Patented Nov. 25, 1856.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

M. C. CHAMBERLIN AND W. FILKINS, OF SHELDON, NEW YORK.

MACHINE FOR TURNING BOOT-LEGS.

Specification of Letters Patent No. 16,123, dated November 25, 1856.

To all whom it may concern:

Be it known that we, M. C. CHAMBERLIN and W. FILKINS, of the town of Sheldon and county of Wyoming and State of New York, have invented a new and Improved Machine for Turning Heavy Boot-Legs, which we believe has not been known or used prior to the invention thereof by your petitioners; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of our invention consists in having two racks one placed immediately above the other and operated by means of a pinion between, with a follower attached to one rack and a disk plunger with hooks to the other, the follower encircling and traversing the outside of an expansion tube, operating in one direction, while the disk plunger and hooks are operating within the expansion tube in a contrary direction.

To enable others skilled in the art to manufacture and use our invention we will now proceed to describe its construction and operation.

In the figure *a* is the base, *c c* are uprights, sufficiently wide apart to admit the two racks *e* and *f*; *b* is an upright through which the racks *e* and *f* pass, and to which is attached the expansion tube *g*; *d* is a crank, *o* a pinion; *e* and *f* are racks passing between the uprights *c c* and through the upright *b*, *e* operated above, and *f* operated below the pinion *o*, by the pinion *o* in contrary directions; *h* is a follower attached to the rack *e*, traversing and encircling the outside of the expansion tube *g*; *f* is a rack passing through the upright *b* and between the uprights *c c* with a disk plunger attached to one end, and passing through the expansion tube; *i i* are hooks on the plunger I; *g*, is an expansion tube attached to the upright *b*; *k* is a gate suspended between the uprights *c*, *c* to keep the rack in its place, and by means of which the rack may be adjusted to the length required; *x x* are rollers on the end of the expansion tube *g*.

In using our machine, we turn the crank *a*, until the plunger I arrives at the points *x x*, of the expansion tube *g*; then the follower *h* should be at the opposite end of the tube. We then pull the boot leg over the expansion tube *g*, with the straps toward the plunger I, and attached to the hooks *i i*; the gate *k* is then raised and the follower by means of the rack is adjusted to the length of the boot leg, so that as the plunger descends the follower will ascend, pushing the leg as the plunger and hooks draw it within the tube. When the boot leg is adjusted to the expansion tube we turn the crank *a* and the leg is drawn into the tube and thus turned. When turned a revision of the crank will eject the leg and it is then ready for footing.

What we claim and wish to secure by Letters Patent is—

The expansion tube *g*, the rim follower *h* encircling said tube, the disk plunger I provided with hooks in and operated inside of said tube (*g*) as described, in combination with racks *e* and *f* and pinion *o* for the purpose of imparting adverse longitudinal motion to said rim follower, and disk plunger as set forth.

M. C. CHAMBERLIN.
W. FILKINS.

Attest:
GEORGE M. DIXON,
SALLY DIXON.