

(No Model.)

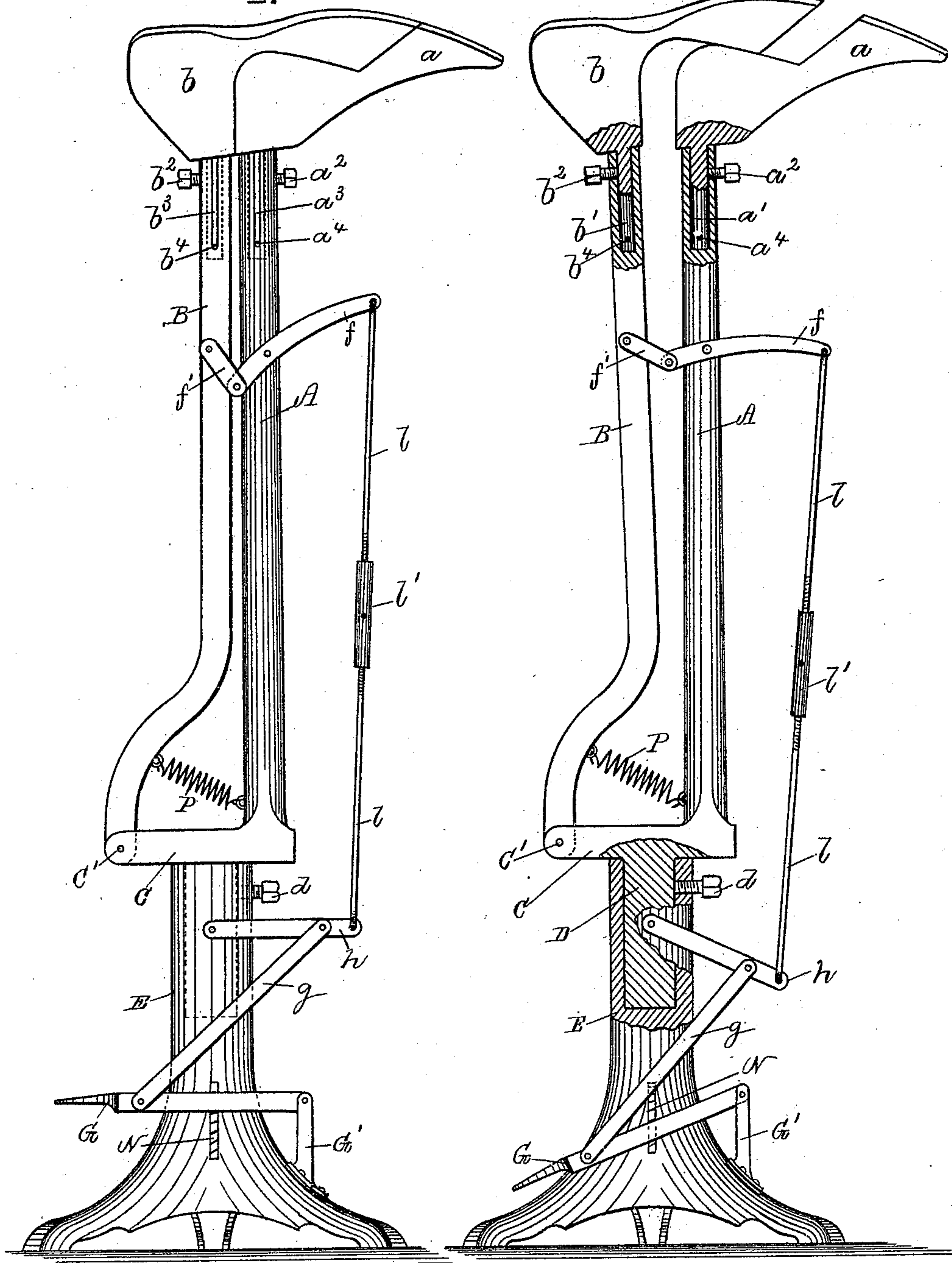
G. SUMNER.
JACK FOR BURNISHING MACHINES.

No. 497,505.

Patented May 16, 1893.

Fig. 1.

Fig. 2.



Witnesses.

Laurie W. Möller.
May C. Möller

Inventor.

George Sumner
by W. M. Crest
his Attorney

UNITED STATES PATENT OFFICE.

GEORGE SUMNER, OF BRAINTREE, MASSACHUSETTS.

JACK FOR BURNISHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 497,505, dated May 16, 1893.

Application filed November 23, 1892. Serial No. 452,906. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SUMNER, a citizen of the United States, residing at Braintree, in the county of Norfolk and Commonwealth of Massachusetts, have invented a new and useful Improvement in Burnishing-Jacks, of which the following is a specification, reference being had to the accompanying drawings.

10 The object of my invention is a jack for use in burnishing or for shoemakers' use on hand work, adapted for shoes of various sizes and shapes.

15 The invention consists in forming the last in two parts, each mounted upon a separate standard, with devices for adjusting the two portions of the last for varying sizes and adjusting the standards to different heights as will be more particularly described and 20 claimed.

In the drawings, Figure 1 is a side elevation of a burnishing-jack and standard embodying my invention. Fig. 2 is a side elevation partly in section showing the last extended.

25 The fore-part piece *a* has a spindle *a'* which fits in a socket in the standard A and which is clamped by set-screw *a*². The heel and shank piece *b* has a spindle *b'* which fits in a socket in standard B and which is clamped 30 by set-screw *b*². The standards are slotted at *a*³ and *b*³ respectively, forming guides for the pins *a*⁴ *b*⁴ to prevent the last from turning. The standard A which carries the fore-part last is fixed to the bracket base C, and the 35 standard B is pivoted to the bracket at C'. This bracket is supported on a spindle D which enters a socket in the column E.

40 The toggle-jointed levers *f f'* pivoted to the standards A B are operated by treadle G through treadle-rod *g*, arm *h* and rod *l*. When the treadle is depressed the toggle-arms throw back the standard B on its pivot and cause the heel and shank piece to slide back and 45 lengthen the last as shown in Fig. 2. I prefer to make the heel and shank portion in one piece as shown and the toe-piece as shown so that there will be an offset on the toe-piece on which the shank will slide when the last is extended. I also prefer to make both portions of the last detachable from the stand- 50 ards by means of the spindles as shown, so

that either one or both portions of the last may be exchanged readily for those of different size. The last may however be divided crosswise of the shank without any offset 55 leaving simply the heel portion on one part, and the shank and fore-part on the other. In such case the same heel portion could be used for all sizes and might if desired be made fixed to its standard instead of detachable, 60 but the fore-part should still be detachable and exchangeable. A ratchet N engages with the treadle to hold it at the desired point of extension. When the treadle is released from the ratchet the spring P assists the return 65 movement of the standard B.

The machine is adjustable to different heights by moving the spindle D in the socket, the spindle being clamped by set-screw *d*. The rod *l* is made in two parts whose 70 inner ends are screwed into a coupler *l'* one being right handed and the other left handed, by which the rod *l* may be shortened or lengthened to correspond with the position of the spindle D. 75

What I claim as my invention is—

1. In a jack, a fixed standard and a pivoted standard, a two-part last, the heel piece being mounted upon one standard, and the toe-piece having a spindle by which it is detachably 80 mounted in a socket in the other standard, a treadle and connecting-rods and toggle-levers by which the pivoted standard may be opened away from the fixed standard thereby extending the two-part last, a ratchet to retain the 85 pivoted standard in its adjusted position, and a spring to return the pivoted standard when the ratchet is released, substantially as described.

2. In a jack, a fixed standard and a pivoted 90 standard, a two part last, the toe piece having a spindle by which it is detachably mounted in a socket in the fixed standard, the heel piece having a spindle by which it is detachably mounted in a socket in the pivoted stand- 95 ard, a treadle and connecting rods and toggle levers by which the pivoted standard may be opened away from the fixed standard thereby extending the two part last, the two parts of the last being made with an offset so that the 100 movable piece will slide on the fixed piece, a ratchet to retain the pivoted standard at any

position, and a spring to return the pivoted standard when the ratchet is released, substantially as described.

3. In a jack, a fixed standard and a pivoted
5 standard, a two part last, one part mounted
upon each standard, a spindled bracket base
upon which the two standards are mounted
in common, a column with socket to receive
the bracket spindle and a clamping device to
10 hold the bracket at different elevations above
the column, a treadle and connecting rods
and levers for opening the pivoted standard,
one of the connecting rods being made ex-
tensible to correspond with the elevation of
15 the bracket base, a ratchet to retain the piv-
oted standard at any degree of opening and

a spring to return the pivoted standard when
the ratchet is released, substantially as de-
scribed.

4. In a jack, a fixed standard and a pivoted 20
standard, a two-part last, one part mounted
upon each standard, a spindled bracket-base
upon which the two standards are mounted
in common, a column with socket to receive
the bracket spindle, and a clamping device 25
to hold the bracket at different elevations
above the column, substantially as described.

GEORGE SUMNER.

Witnesses:

N. THAYER WILDE,
E. M. SUMNER.