

Shoe-Heel Machine.

Patented Sep. 27, 1864.

Fig. 2.

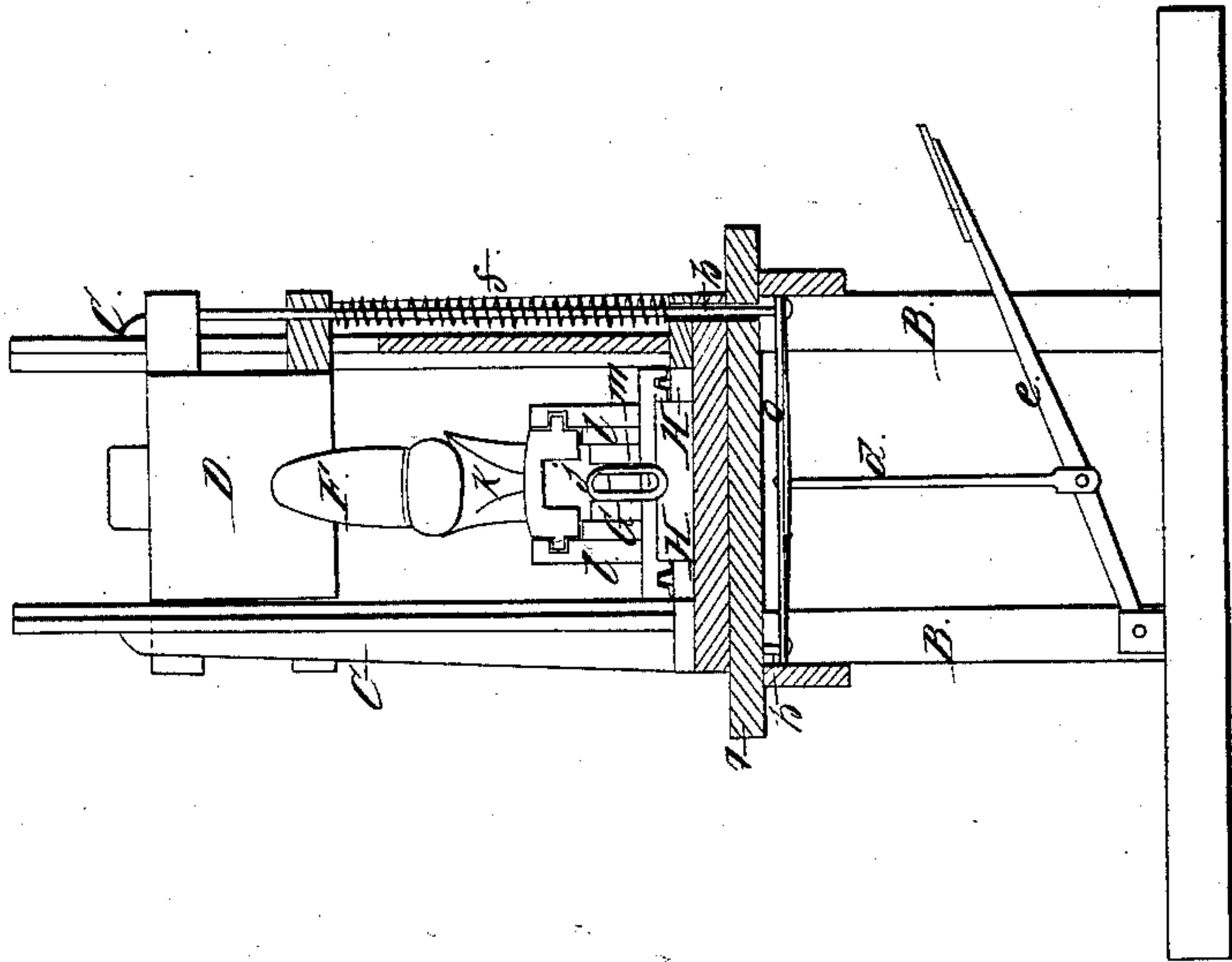
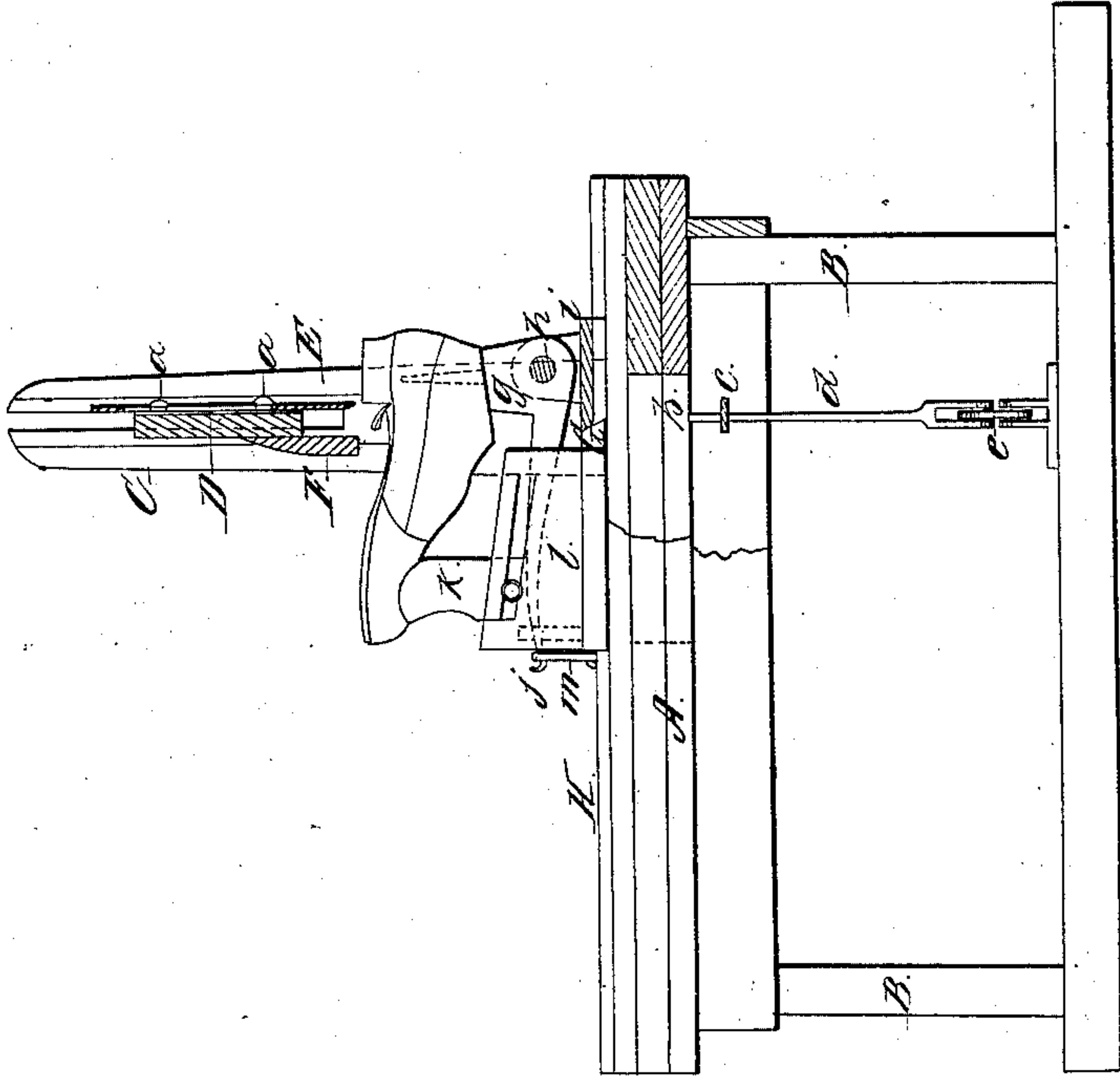


Fig. 1.



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UNITED STATES PATENT OFFICE.

W. H. PITKIN, OF PROVIDENCE, RHODE ISLAND.

IMPROVED MODE FOR BREASTING HEELS.

Specification forming part of Letters Patent No. 41,453, dated September 27, 1864.

To all whom it may concern:

Be it known that I, W. H. PITKIN, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Machine for Breastng Heels; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a sectional side elevation of this invention. Fig. 2 is a transverse vertical section of the same.

Similar letters of reference indicate corresponding parts.

This invention consists in the employment or use for breastng heels of boots and shoes of a vertically-sliding frame or gate carrying a knife and a guard, and connected to a treadle in such a manner that by depressing the treadle the knife is caused to descend and the operation of breastng a heel is effected with comparatively little bodily exertion, and by the guard the knife is prevented from cutting any deeper than desirable and from injuring the sole.

The invention consists also in a longitudinally-sliding adjustable jack to receive the boots and shoes, in combination with the vertically-sliding reciprocating knife, in such a manner that boots or shoes of different description can be readily adjusted on the jack and exposed to the action of the knife with little loss of time and labor.

A represents a table made of wood or any other suitable material and supported by legs B at a convenient height above the ground. From the upper surface of this table rise two uprights, C, which form the guides for the gate or carriage D, to which the knife E is firmly secured by means of screws *a*, or in any other convenient manner so that it can be readily taken off and sharpened, and that it can be adjusted up and down to cut to the desired depth. The depth to which the knife is allowed to cut is governed by the guard F, which is secured to the gate D on the side opposite the knife, as clearly shown in Fig. 1 of the drawings. Said gate connects by means of rods *b b*, cross-bar *c*, and pitman *d* with a treadle *e*, which is arranged below the table

A, and springs *f* are placed round the rod *b*, so that when, by the action of the treadle, the gate has been depressed it will be carried back to its original position by the action of the springs as soon as the treadle is relieved. The boots or shoes the heels of which are to be breastng are secured to the jack G, which slides backward and forward on rails H, secured to the surface of the table A. Said jack is composed of an anvil, *g*, which oscillates on a pivot, *h*, that has its bearings in lugs *i*, rising from the bed plate of the jack. Said anvil is provided with a stud extending upward into the last of the boot or shoe to be acted on, and an arm or lever, *j*, serves to hold the toe part of the last or shoe down upon the supporter *k*. This supporter is adjustable backward and forward in slotted standards *l*, rising from the body of the jack, and the lever *j* is held down by an elastic clasp, *m*, so that the same can be readily released whenever it may be desirable. By this arrangement I am enabled to secure boots or shoes of different size to the same jack with the greatest ease. After a boot or shoe has been adjusted on the jack, it is pushed under the knife and the carriage D is depressed. The knife in descending faces the heel, and the guard by striking the sole prevents the knife from cutting down into the sole. By this arrangement the operation of breastng heels can be performed with the greatest ease and facility. It requires but very little bodily exertion to operate the treadle and to move the jack backward or forward on the track, and one cut of the knife is sufficient to produce the desired effect.

I claim as new and desire to secure by Letters Patent—

1. The vertically-sliding gate D, with knife E and guard F, constructed and operating in the manner and for the purpose substantially as herein shown and described.

2. The longitudinally-sliding adjustable jack G, in combination with the vertically-sliding reciprocating knife E, constructed and operating substantially as and for the purpose set forth.

W. H. PITKIN.

Witnesses:

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