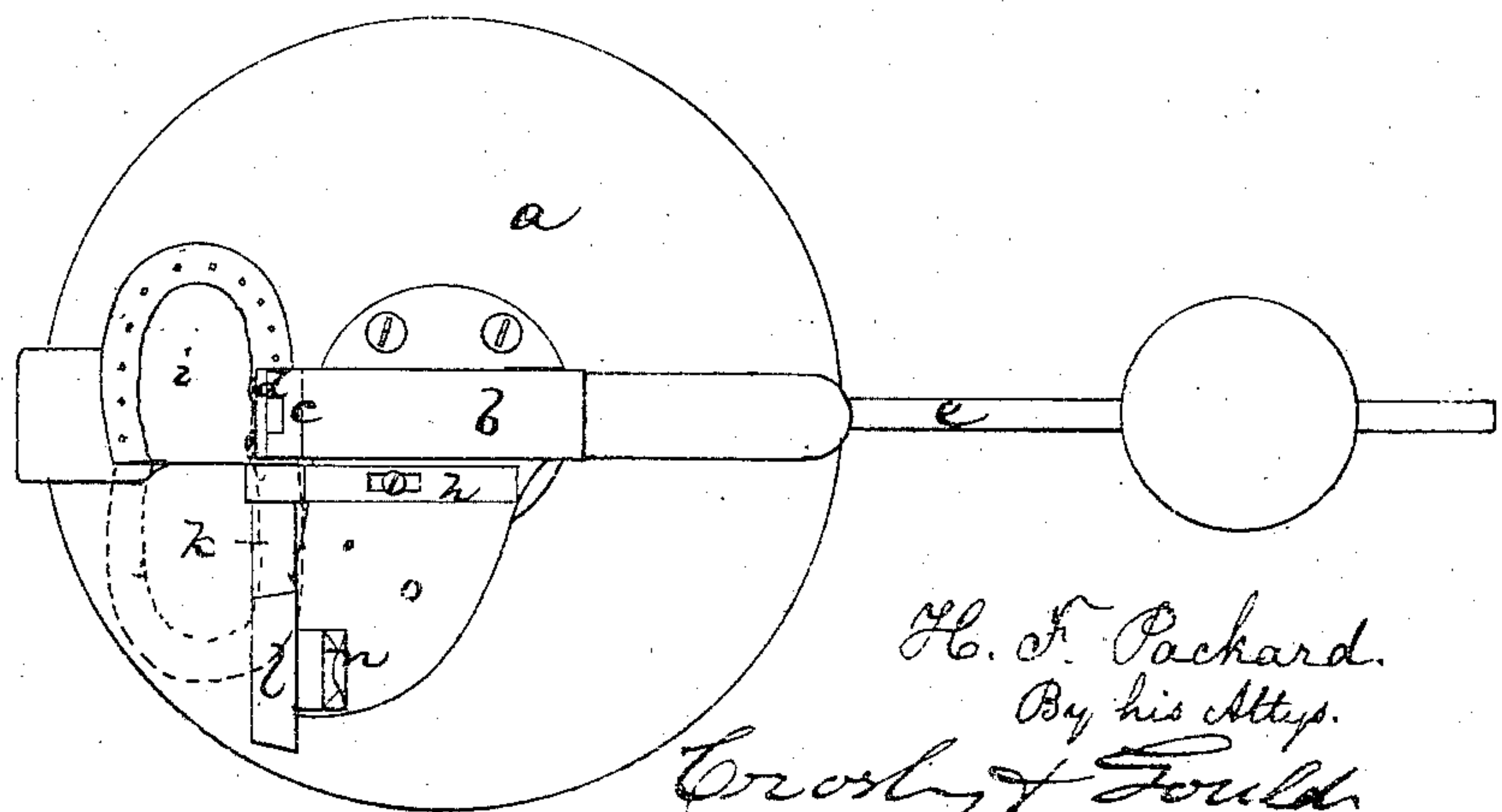
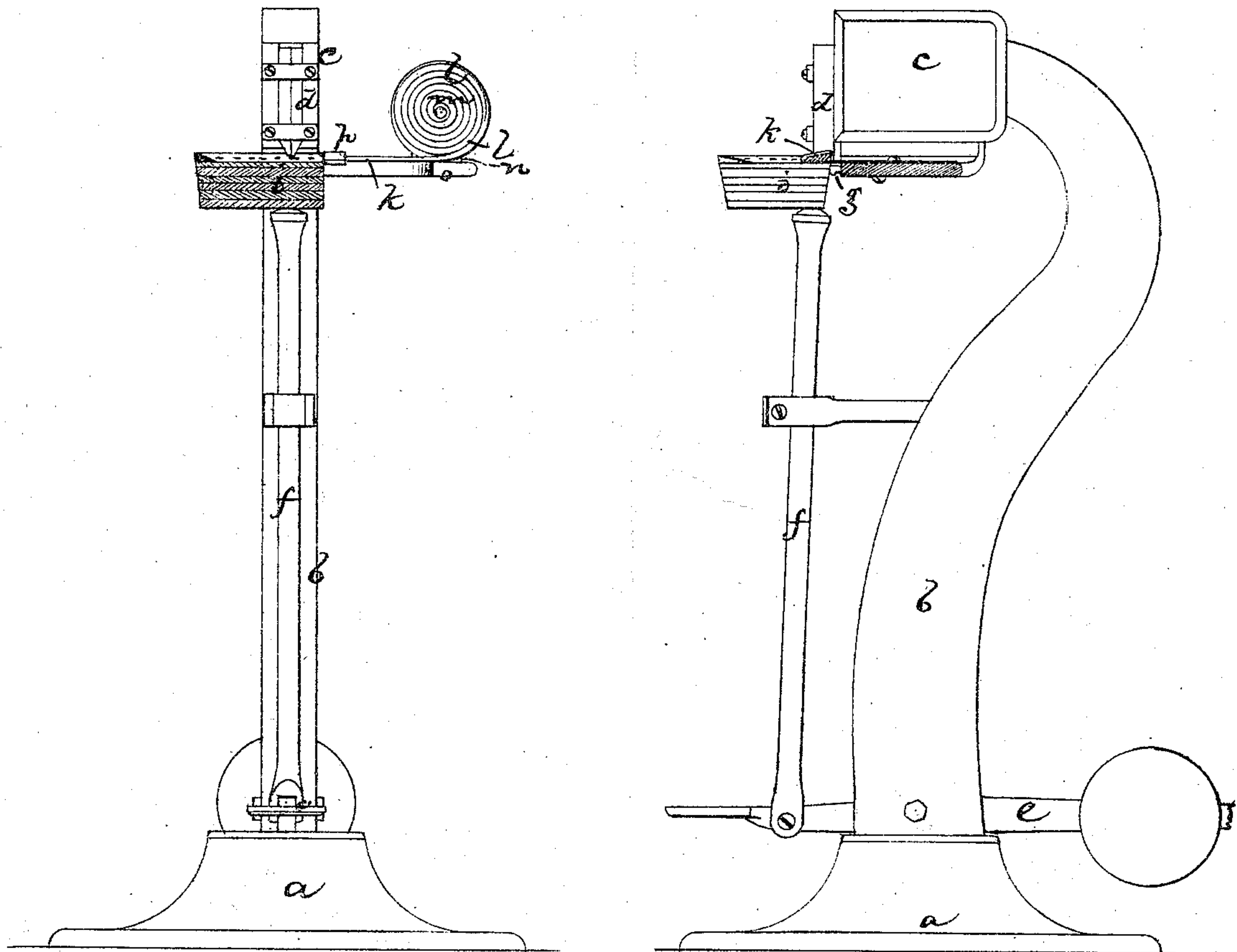


H. F. Packard,
Heel Randing Machine.

118263

PATENTED AUG 22 1871



Witnesses.
M. W. Frothingham,
L. H. Latham,

H. F. Packard.
By his Atty.
Crosby & Gould

UNITED STATES PATENT OFFICE.

HENRY F. PACKARD, OF NORTH BRIDGEWATER, ASSIGNOR TO ARZA B. KEITH,
OF BRAINTREE, MASSACHUSETTS.

IMPROVEMENT IN MACHINES FOR RANDING BOOT AND SHOE-HEELS.

Specification forming part of Letters Patent No. 118,263, dated August 22, 1871.

To all whom it may concern:

Be it known that I, HENRY F. PACKARD, of North Bridgewater, in the county of Plymouth and State of Massachusetts, have invented an Improvement in Randing Boot and Shoe-Heels; and I do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention, sufficient to enable those skilled in the art to practice it.

My invention relates to an improved method of applying heel-rands or runners to boot and shoe-heels preparatory to the process of fastening a heel to a boot or shoe in a heeling-machine.

Usually these heel-rands are fastened in position upon the heel by hand-tacking or pegging; but in my method I use a pegging or nailing-machine; and my invention consists, primarily, in combining with a pegging or nailing mechanism and a pivoted post or heel-support a rand-guide and a heel-guide, so arranged relatively to the feed and nailing mechanism that the rand is guided to and held in position upon the heel during the pegging or nailing operation.

The drawing represents, in plan, in front view, and in side elevation, the post and head of a nailing or pegging-machine with my improvement embodied therewith.

a represents the base-plate; *b*, the post; *c*, the head; *d*, the swing-plate that carries the feed-foot and nail-tube foot; *e*, the weighted pedal-lever pivoted to the post, and having pivoted to its front arm a post, *f*, which slides vertically in a suitable bearing, the top of said post being the work-supporting rest upon which the heel to be "randed" is supported, and over which said heel is fed, the heel being held to the feed and nail-tube mechanism by the stress of the weight on the pedal-lever. Under the head *c* is an adjustable edge-guide, *g*, against which the edge of the heel is held, the adjustment of this guide determining the distance from the edge of the heel at which the nails or pegs shall be driven through the rand. At one side of the head is a plate, *h*, at the front end of which is a flat eye or guide, adapted in size and form to receive the rand and allow it to run readily

through it. This rand-guide is placed at such distance in advance of the vertical plane of the front of the edge-guide as to conduct the rand to the edge of the heel, and so that the thick or outer edge of the rand shall come flush, or nearly so, with the edge of the upper heel-lift; and a heel, *i*, being held on top of the post, with the edge of its upper lift against the edge-guide, and the end of the rand-strip *k* being entered between the heel and feed or peg-tube foot, the rand will be accurately fastened in position upon the heel, as the nailing or pegging-machine is operated, without other care or manipulation by the operator than that required to hold the heel-edge against the edge-guide.

The rand-guide is preferably made adjustable, both to correspond with the adjustment of the edge-guide and to enable the rand-edge to be more or less projected beyond the edge of the heel.

In practice, I prefer to use with the machine an endless rand or rand-ribbon or coil, *l*, which may be mounted at its center on a pin, *m*, extending from a post, *n*, on a shelf, *o*, so that heel after heel may be randed without the necessity of trimming off short rand-strips and wasting stock or stopping the action of the machine, as the operator, beginning with one heel, held as seen by the dotted line, places the breast of another heel against it, (as denoted by the dotted line,) when it reaches the position denoted by the full line, so that the rand-applying operation is continuous so long as there is rand material, the supply of which can, of course, be kept up by an assistant, who can also cut the heel-connected rands apart as each randed heel passes from the nailing mechanism.

By this method of randing heels the rands are not only more expeditiously applied than they can be by hand, but they are applied with much greater accuracy.

I claim—

1. In combination with a nailing or pegging mechanism and a heel-supporting rest or post, a rand-guide for guiding the rand-strip into position to be nailed upon the heel and relatively to the edge of the heel, substantially as described.

2. In a nailing or pegging-machine, the combination of an adjustable edge-guide and adjustable rand-guide, substantially as described.

3. The process of randing heels successively and continuously by employing, in connection with the nailing and feeding mechanism, heel-supporting post, and rand and edge-guides, the

rand-coil or ribbon, and placing the heels breast to breast, so as to feed from one to the other, substantially as shown and described.

H. F. PACKARD.

Witnesses:

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