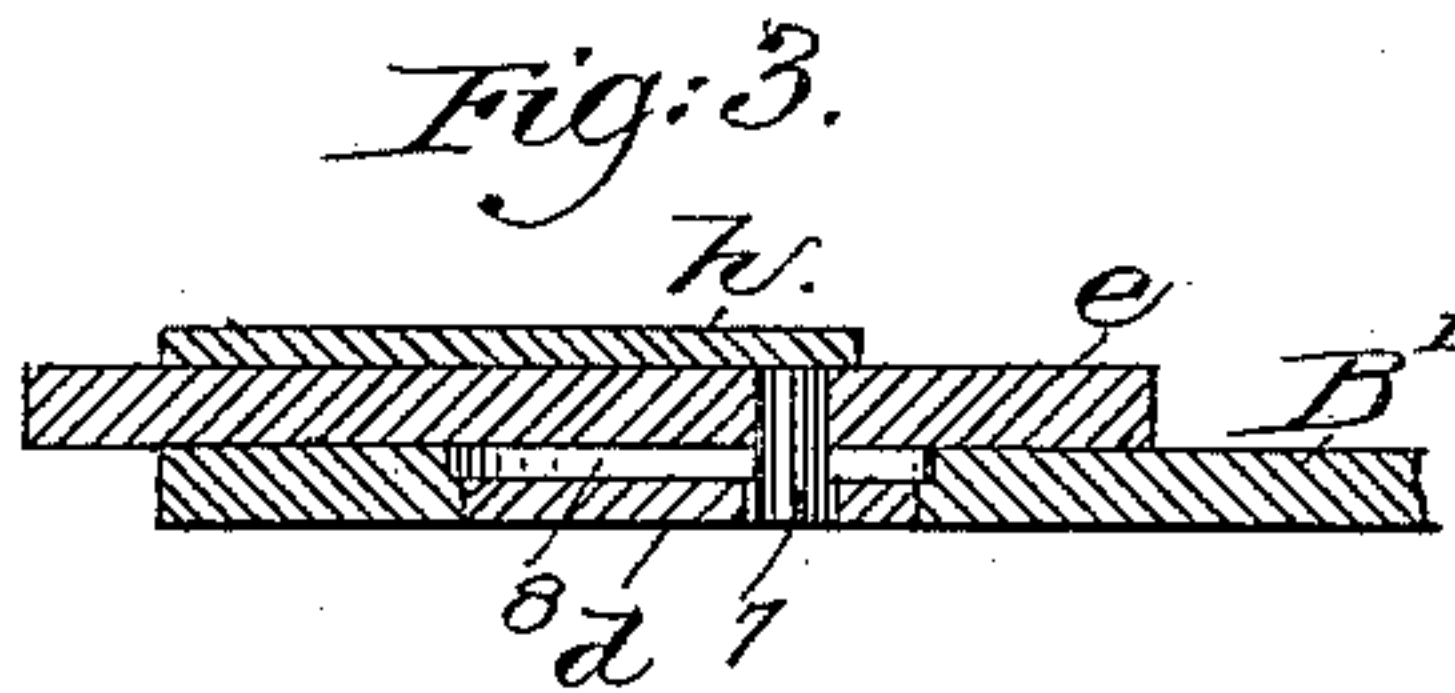
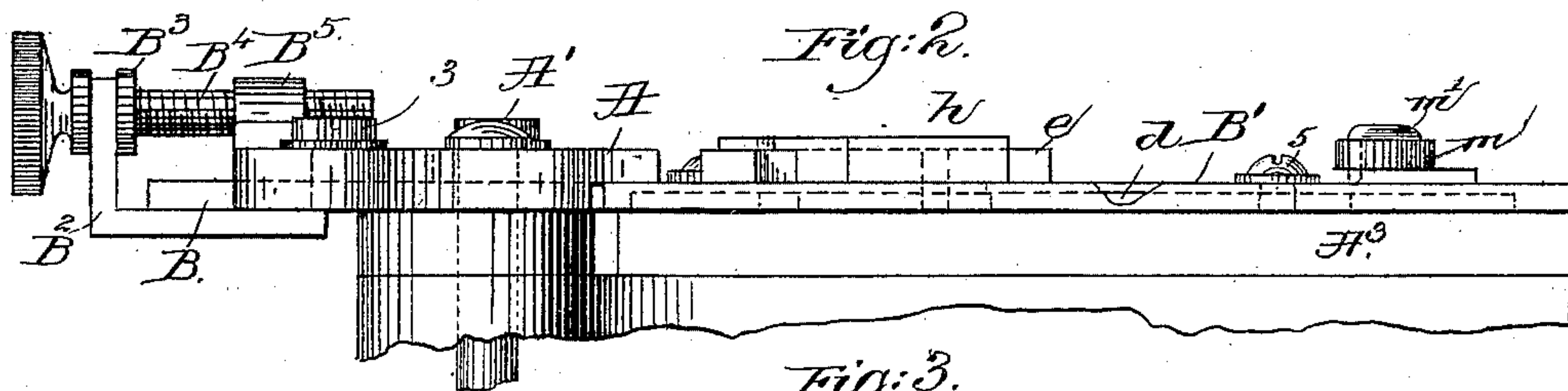
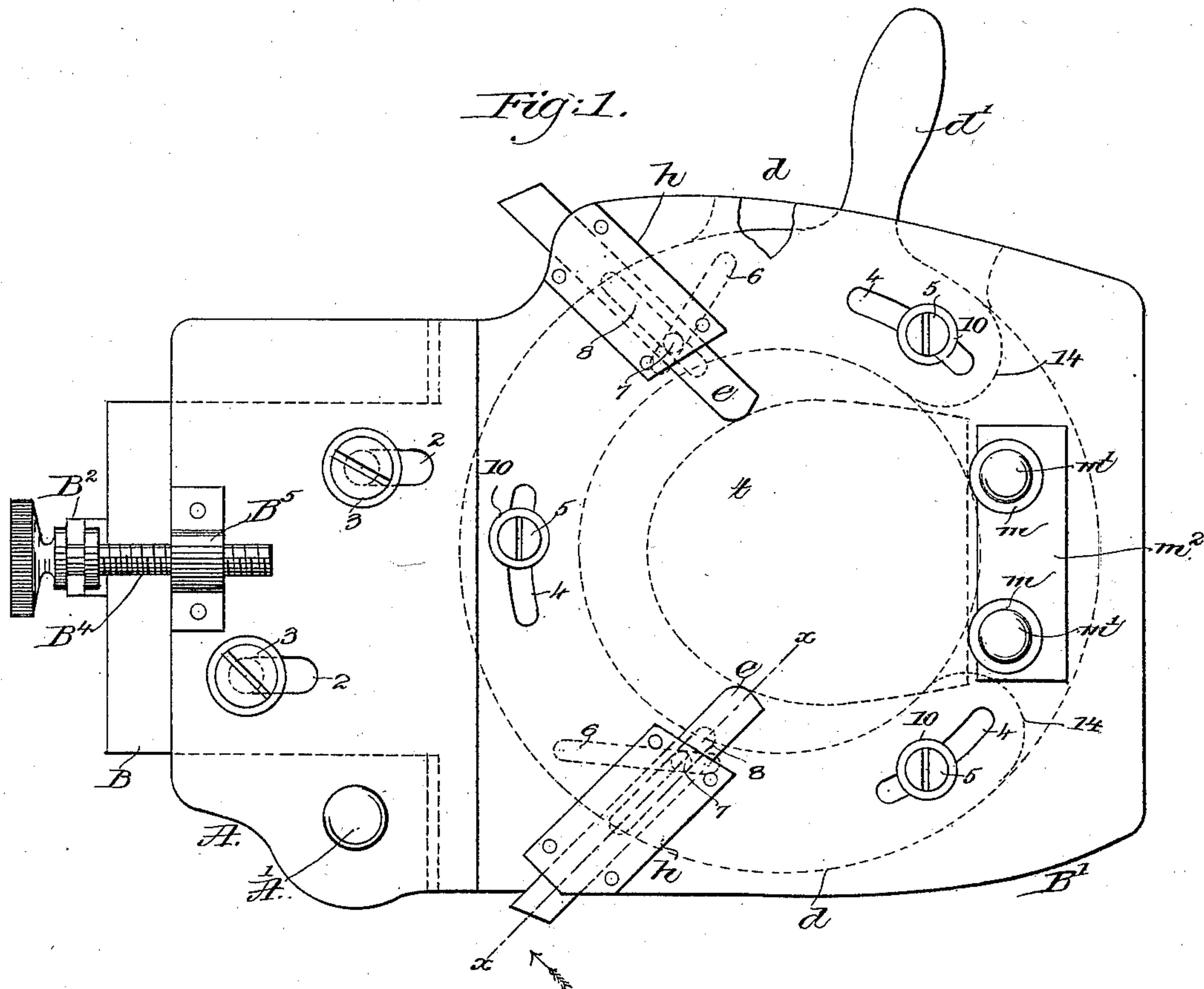


(No Model.)

H. W. WINTER.  
TOP LIFT CARRIER FOR HEELING MACHINES.

No. 401,619.

Patented Apr. 16, 1889.



*Witnesses.*

*Edgar A. Goddin.*

*Fredrick L. Emmer.*

*Inventor.*

*Henry W. Winter.*  
*by Leroy & Gregory attys.*



# UNITED STATES PATENT OFFICE.

HENRY W. WINTER, OF BOSTON, ASSIGNOR TO JAMES W. BROOKS, TRUSTEE,  
OF CAMBRIDGE, MASSACHUSETTS.

## TOP-LIFT CARRIER FOR HEELING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 401,619, dated April 16, 1889.

Application filed August 25, 1888. Serial No. 283,734. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY W. WINTER, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Top-Lift Carriers for Heeling-Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention is an improvement upon that described in application Serial No. 266,736. Herein the swinging plate, on which rests and is held the top lift, is adjustably connected with a plate pivoted to the usual nail-box, the plate supporting the top lift having combined with it an adjusting-plate which acts upon and moves certain fingers, which in turn act upon the edges of and correctly position the top lift with relation to the plate on which it rests, the latter plate resting on the usual nail-box.

Figure 1 is a top or plan view of a top-lift carrier embodying this invention; Fig. 2, a side elevation thereof with most of the nail-box broken away; and Fig. 3, a section in the line *x*, Fig. 1, looking in the direction of the arrow.

The plate A will in practice be pivoted by a pin or stud, A', to the top of the usual nail-box, A<sup>3</sup>, so as to be turned aside when it is desired to turn or swing the top-lift plate B', and to uncover or to cover the usual nail-holes in the said nail-box, the top-lift plate being swung into position to cover the said holes and hold the top lift opposite the end of the heel when the said top lift is to be blinded upon the heads of the nails in the heel. The plate A is grooved at its under side for the reception of the shank B of the top-lift plate B', the said shank having an upturned lip, B<sup>2</sup>, provided with a notch in which is placed the annularly-grooved collar B<sup>3</sup> of a screw, B<sup>4</sup>, which is screwed into a threaded stand, B<sup>5</sup>, erected upon the rear end of the plate B'. The plate A has longitudinal slots 2, through which and into the shank of the plate B are fastened the studscrews 3, the screws serving to guide the plate B when being adjusted longitudinally with relation to the pivoted plate A, which, as stated, will in practice be pivoted upon or at the end of the usual nail-box, so that the plate B' may

be swung on the said pivot to cover or to uncover the nail-box. The plate B' has also a series of curved slots, 4, which receive through them the shanks of a series of screws, 5, screwed into an adjusting-plate, *d*, (shown chiefly by dotted lines at the under side of the plate B',) as an annular or ring-like plate having a handle, *d'*, by which to rotate it, the heads of the screws or the washers 10 under them supporting the plate *d* under the plate B'. The adjusting-plate *d* has other angular slots, as 6, (shown by dotted lines,) which receive in them pins, as 7, which are extended from the fingers *e* down through slots 8 in the plate B' before entering the slots 6. The rotation of the plate *d* in one or the other direction with the pins 7 in the slots 6 moves the fingers *e* out and in in their guides *h*, or toward and from the center of the plate B', so as to come in contact with the edges of and properly position the top lift *t*, (shown by dotted lines in Fig. 1,) the breast of the top lift resting against breast-gages, (shown as rolls or projections, as *m m*, rising from a block, *m*<sup>2</sup>, on the plate B',) said rolls being shown as mounted upon studs *m*'.

I do not desire to limit my invention to the exact shape shown for the plate *d*, for it would work just as well if it terminated as designated by the dotted lines 14 or was not a complete ring.

By rotating the screw B<sup>4</sup> in one or the other direction the plate B' may be adjusted longitudinally above the usual nail-box, and with the plate B' is moved the rolls which position the breast of the heel.

Prior to my invention I am not aware that the rolls or, in fact, any gages for the breast end of the heel have been attached directly to the top-lift plate and been made longitudinally adjustable with the said plate.

I do not desire to limit my invention to the employment of rolls for breast-gages for the breast end of the heel, as any other form of projection which is fixed to and made movable longitudinally in unison with the top-lift plate would come within the scope of my invention.

Viewing Fig. 1, when the sliding fingers are shown as pushed in against the edge of the



top lift, it will be noticed that the slot 6 has been brought at such an angle with relation to the slot 8 and pin 7 that the plate *d*, by the walls of the slot 6, acts as a stop or lock to prevent any possible movement backward of the fingers by reason of pressure against their outer ends.

I claim—

1. The plate A, adapted to be pivoted to the nail-box, and the connected plate B', combined with sliding fingers to act against the edges of the top lift, and with the adjusting-plate to move the said fingers longitudinally, substantially as described.

2. The plate A, adapted to be pivoted to the nail-box, and the connected plate B', combined with sliding fingers to act against the edges of the top lift, and with the adjusting-plate to move the said fingers longitudinally, and with the stops for the breast end of the heel, substantially as described.

3. The nail-box, the pivoted plate A, the plate B', carried by the said pivoted plate, means, substantially as described, to adjust

the plate B' longitudinally, and the guides *h*, combined with the sliding fingers and the adjusting-plate to actuate them, substantially as described.

4. The nail-box, the pivoted plate A, combined with the top-lift plate B', fitted to slide in the plate A, and with a screw to adjust the plate B longitudinally with relation to the pivoted plate A, substantially as described.

5. The nail-box, the plate A, pivoted to it, and the plate B and screw to adjust it longitudinally with relation to the said pivoted plate, substantially as described, combined with the breast-gage attached to the top-lift plate for the breast of the top lift and movable in unison with the said plate B, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY W. WINTER.

Witnesses:

G. W. GREGORY,  
F. L. EMERY.