

J. F. DANIEL.

Improvement in Boot-Pattern.

No. 131,254.

Patented Sep. 10, 1872.

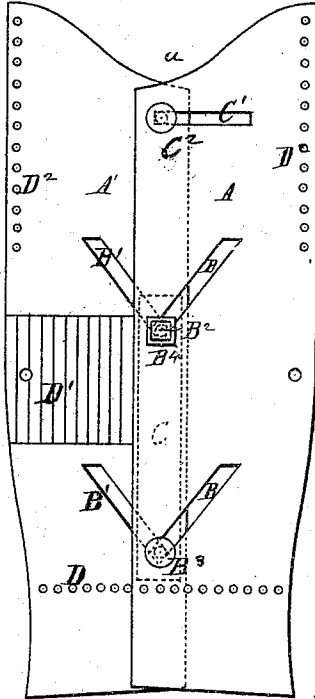


Fig. 1.

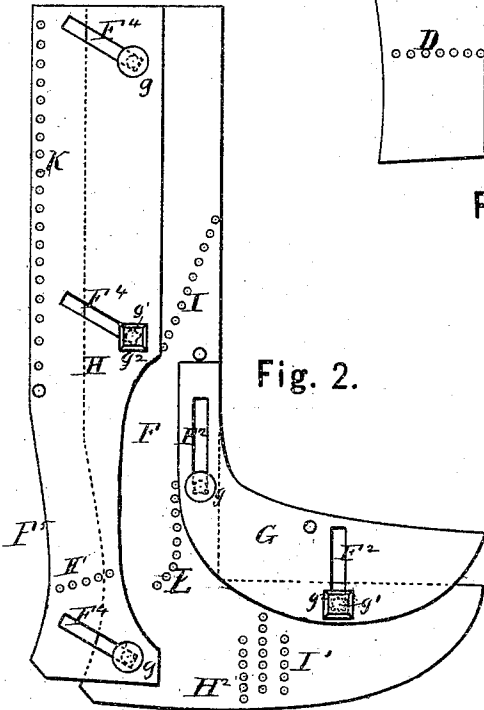


Fig. 2.

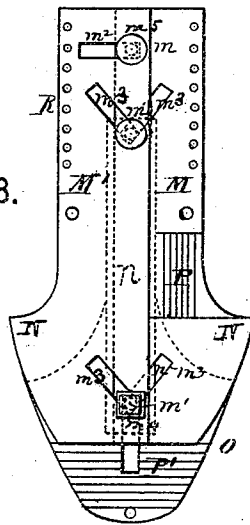


Fig. 3.

WITNESSES.

Villette Anderson,
Geo. Upham,

INVENTOR.

John F. Daniels,
Clippin and Sonnet Co
Atty

UNITED STATES PATENT OFFICE.

JOHN F. DANIELS, OF GREENCASTLE, INDIANA.

IMPROVEMENT IN BOOT-PATTERNS.

Specification forming part of Letters Patent No. 131,254, dated September 10, 1872.

To all whom it may concern:

Be it known that I, JOHN F. DANIELS, of Greencastle, in the county of Putnam and State of Indiana, have invented a new and valuable Improvement in Boot-Patterns; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my back pattern. Fig. 2 is a view of my instep-front and heel-pattern, and Fig. 3 is a modification of my boot-pattern.

My invention has relation to boot-patterns; and consists in the construction and novel arrangement of the graduated slides, of which the patterns are composed, and the means of adjustment pertaining thereto, all as hereinafter more fully described.

My invention contemplates the use of three distinct sets of patterns, to wit: First, leg-patterns, adapted to give the proper measurement of the boot-leg at the back; second, toe-patterns for giving the proportionate measurement of the length and width of the foot; third, combined instep, heel, and leg patterns for giving the proportionate measurements for the instep, the heel, and the front part of the leg.

Referring to the drawing, Figure 1 represents the back patterns, consisting of the two curved plates A A' having the oblique slots B B', through which pass the bolt B² and rivet B³, projecting from a strip, C, behind said plates. The plate A has also a horizontal slot, C¹, through which passes a rivet, C², projecting from the plate A'. D designates a transverse line of graduations for measuring the heel. D¹, a transverse row of graduations for giving the width of the leg at that point. D² are vertical graduations, to be used in laying out the length of the leg. By means of the slots and rivets the pieces A A' may be adjusted to any desirable width, the heel part retaining the proper relative position, according to the width of the leg. The bolt B² is provided with a nut, B⁴, by the tightening of which the pattern may be secured when adjusted. The upper parts of the pieces A A' are correspondingly curved at a to provide a

pattern by means of which the counters of Morocco-top boots may be properly cut out.

Fig. 2 represents the combined instep-front and heel patterns, composed of the three plates F G H. To the L-shaped piece F, having the rivets *g* and bolts *g*¹, are attached the adjustable instep piece G, having the vertical slots F², and the adjustable leg and heel piece H having oblique slots F⁴. The piece H, when moved out or in, is, by means of the oblique slots, raised or lowered, as the case may be, to give the heel curve F⁵ the proper relative position. The oblique graduations I on the plate F give the measurement when the plate H is moved, and these graduations have relation to other graduations, I', which give the instep measurement according as the piece G is raised or lowered. When the measurements given by these graduations are made to properly coincide the right proportion of the width or depth of the leg and the height of the heel to the height of the instep is obtained. The bolts *g*¹ have nuts *g*², by means of which the pieces G H may be secured at any points to which they are adjusted. H¹ represents graduations for the heel-draft, coinciding with those marked D on plates A A'. The part H² of plate F is the shank-draft, which is always correct, no matter what size of boot is being blocked out. The graduations K are used in obtaining the measurement of the length of the leg. The graduations L are designed for use in cutting the tongues of Morocco-top boots.

Fig. 3 represents the toe-patterns, having the two plates M M' with enlarged curved shoulder parts N, and connected together by means of rivets *m m*⁵ and bolt *m*¹, passing, respectively, through slots *m*² *m*³, of which the latter are oblique and the former horizontal. The bolt and nearest rivet project from a strip, *n*, and pass through the slotted shank of a graduated toe-piece, O, which moves forward and back, according as the plates M M' are expanded or contracted. By this means the correct proportion of parts is preserved. The graduations, by means of which the measurements are shown, are represented on the plates M and O at P P'. The length of the foot-shank is indicated by the graduations R. Upon the bolt *m*¹ is a nut, *m*⁴, by tightening which the parts M M' O are secured at any point to which they may be adjusted.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The improved adjustable pattern having the adjustable plates A A' correspondingly curved at *a*, substantially as specified.

2. The combined leg, heel, and instep pattern, as described, consisting of the L-shaped plate F holding the nuts *g* and bolts *g*¹ and having the graduations I I', the vertically-slotted adjustable instep-gage G, and the adjustable leg and heel gage H, obliquely slotted at F⁴ and graduated at H¹, substantially as specified.

3. The toe-patterns having the laterally-adjustable obliquely-slotted plates M M', graduated at P, the toe piece O, slotted vertically and centrally, graduated at P', and the strip *n* holding the rivet *m* and bolt *m*¹, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN F. DANIELS.

Witnesses:

THOMAS O. CONNELL,
WILLIAM CREMER.