

(Model.)

W. T. BURROWS.
Metallic Sole for Boots and Shoes.

No. 239,441.

Patented March 29, 1881.

Fig: 1

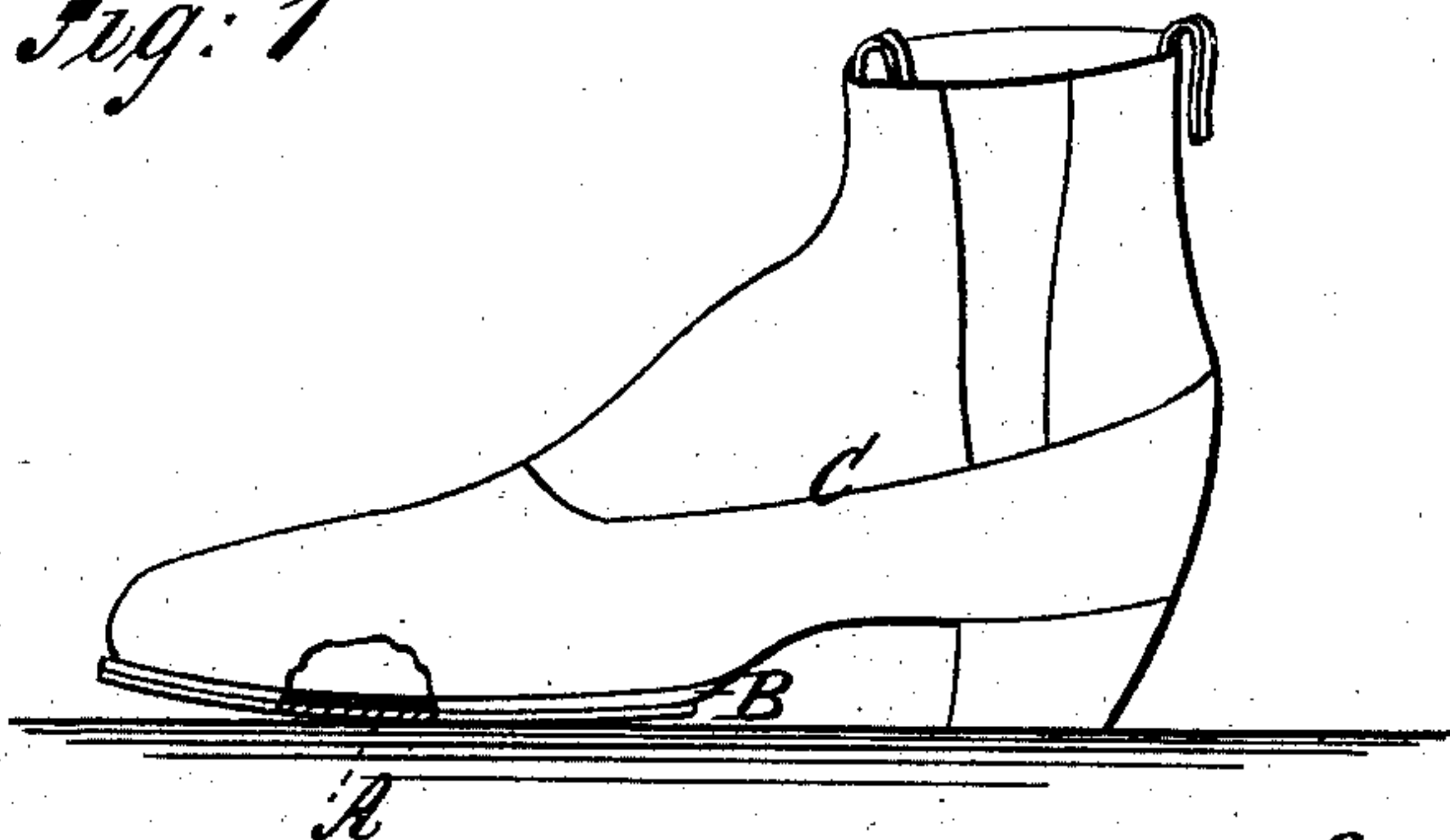


Fig: 2.

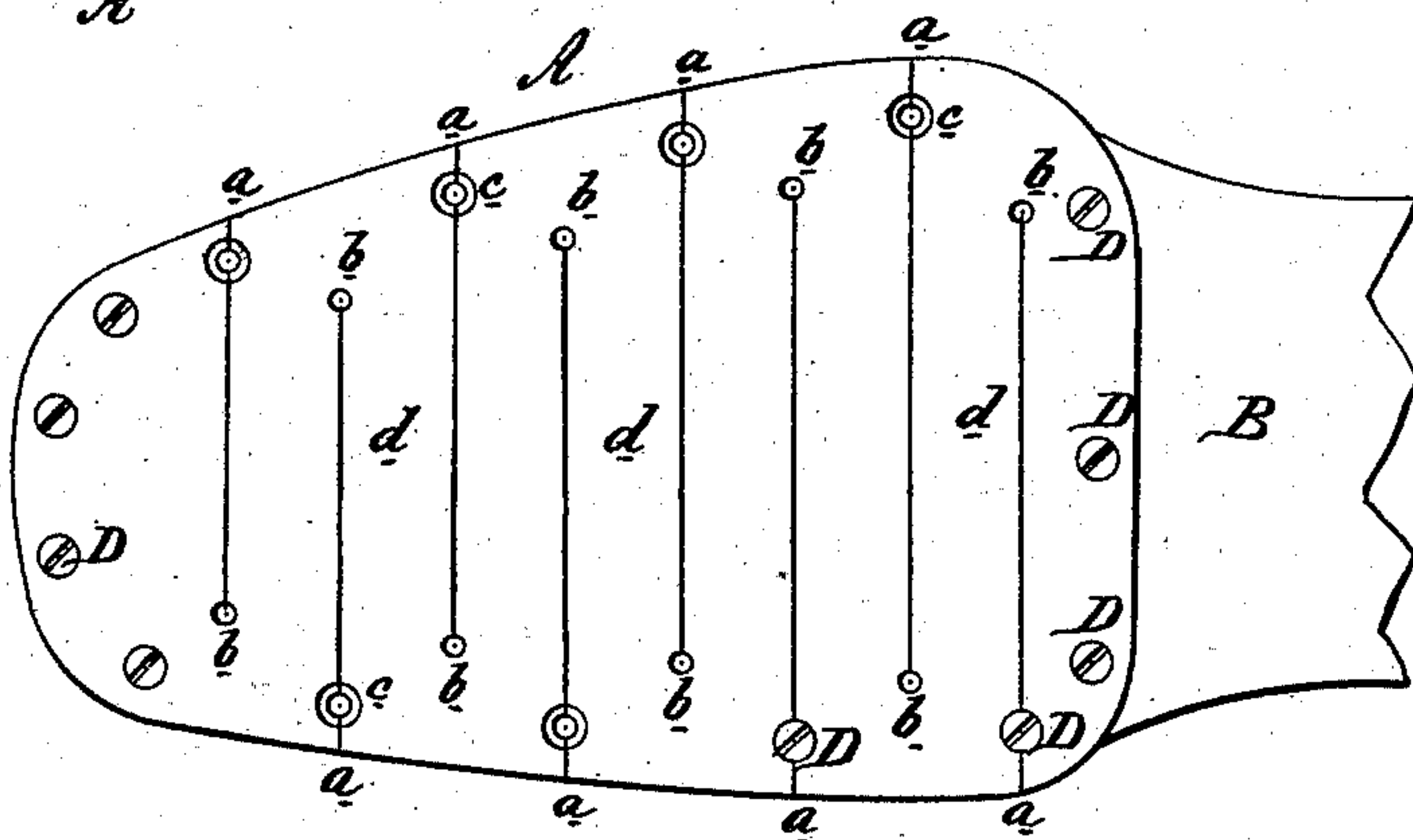
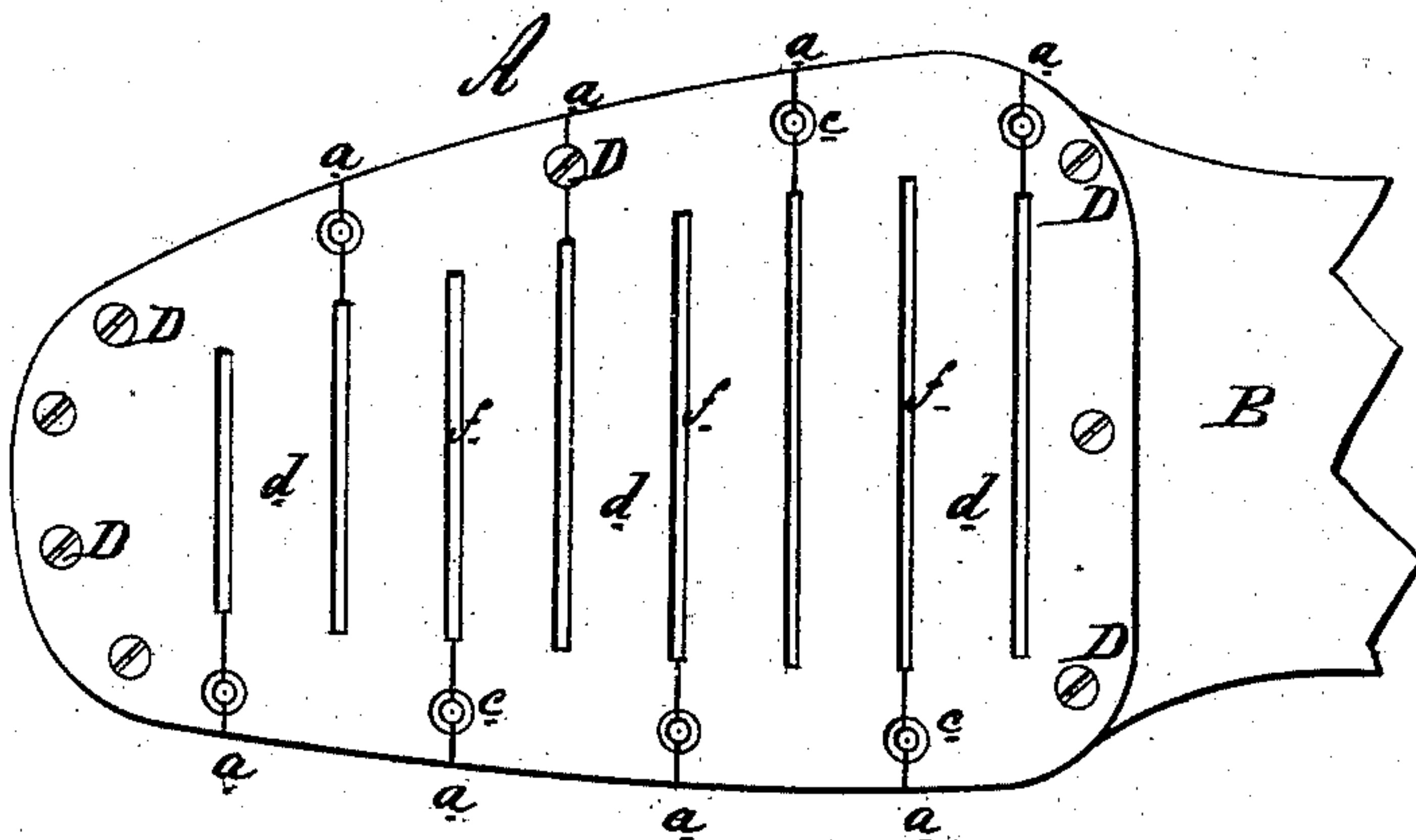


Fig: 3.



WITNESSES:

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WILLIAM T. BURROWS, OF EAST DUBUQUE, ILLINOIS.

METALLIC SOLE FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 239,441, dated March 29, 1881.

Application filed February 2, 1881. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM T. BURROWS, of East Dubuque, in the county of Jo Daviess and State of Illinois, have invented a new and Improved Metal Sole for Boots and Shoes, of which the following is a full, clear, and exact description.

The object of this invention is to increase the durability of the boot or shoe sole.

The invention consists of a plate of metal of the shape of the sole, and designed to be secured thereon, made with parallel cuts or slits, that alternately begin at the opposite edges and extend nearly across the plate, thereby forming, in effect, a series of parallel end-connected cross-bars.

Figure 1 is a side elevation of a shoe provided with the improved sole. Fig. 2 is an enlarged plan of the metal sole in place on a shoe. Fig. 3 is an enlarged plan of a modification of the metal sole in place on a shoe.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents a metal plate, preferably sheet metal, having parallel cuts *a* made across it, which cuts *a*, in alternation, begin at the opposite edge of said plate A and extend nearly across the same, and terminate in small circular perforations *b*, that are designed to prevent the further extension of said cuts *a*, because of the bending of the plate A when in use. Said plate or sole A is secured on the sole B of the shoe or boot C by screws D, that are inserted through countersunk holes *e*, made for that purpose in the said plate or

sole A. The metal remaining between the ends of the cuts *a* and the edges of the sole A may be left quite narrow—that is, the cuts *a* can be extended nearly across without causing the metal to break or crack at those points, as the bending of the sole A in walking will all be through the torsional springing or yielding of each of the several bars *d* between the cuts *a*.

In Fig. 3 is shown a modification of the device, in which the slits or cuts *a* are, at a short distance from their outer ends, enlarged into narrow straight-edged openings, as shown at *f*, and so extended to their termini, for the purpose of giving the sole A a better hold when used on slippery walks.

A metal sole thus constructed is not only very pliable and elastic, but it does not impair the elasticity of the leather sole, B, to which it is applied.

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

A metal sole for boots or shoes having the parallel cuts *a* alternately beginning at opposite edges, extending nearly across said sole, and terminating in perforations *b*, substantially as herein shown and described, said perforations being designed to prevent the further extension, by cracks or breaks, of the said cuts *a*, as set forth.

WILLIAM T. BURROWS.

Witnesses:

R. E. ODELL,
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