

S. CROWLEY.
Heel Plate for Boots and Shoes.

No. 238,362.

Patented March 1, 1881.

Fig. 1

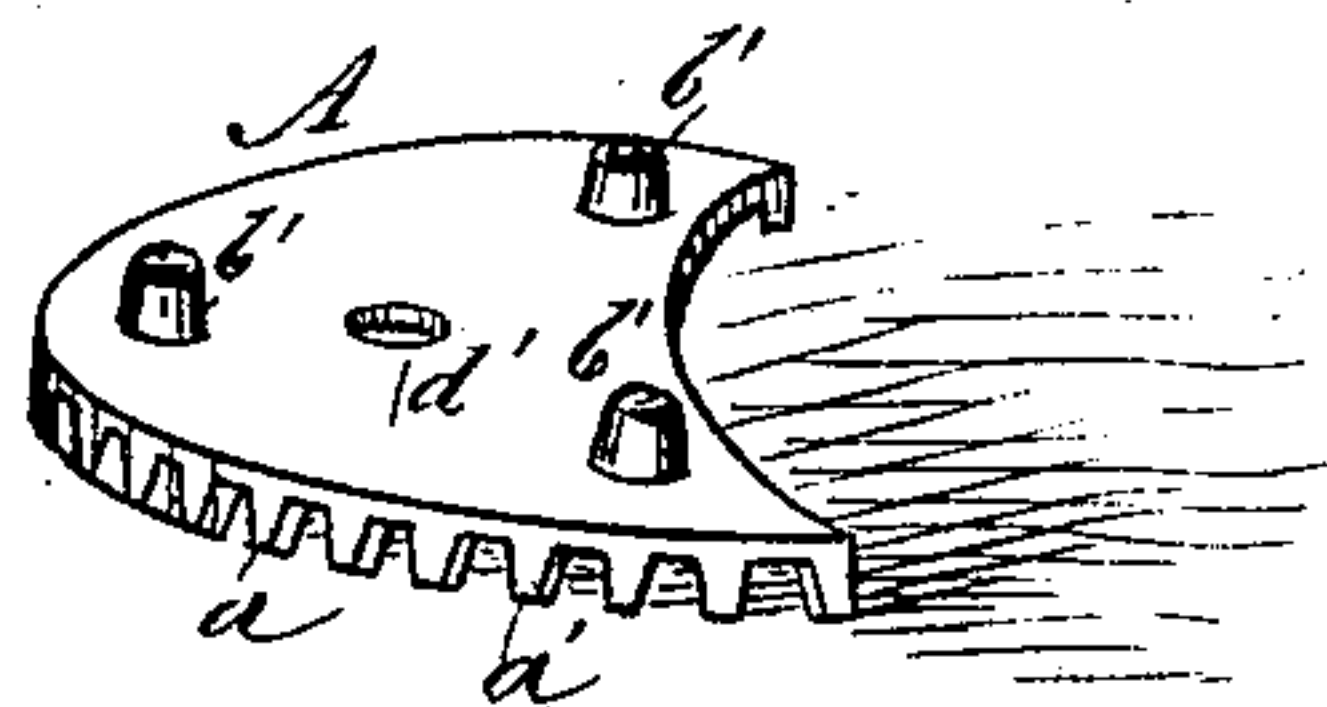


Fig. 3

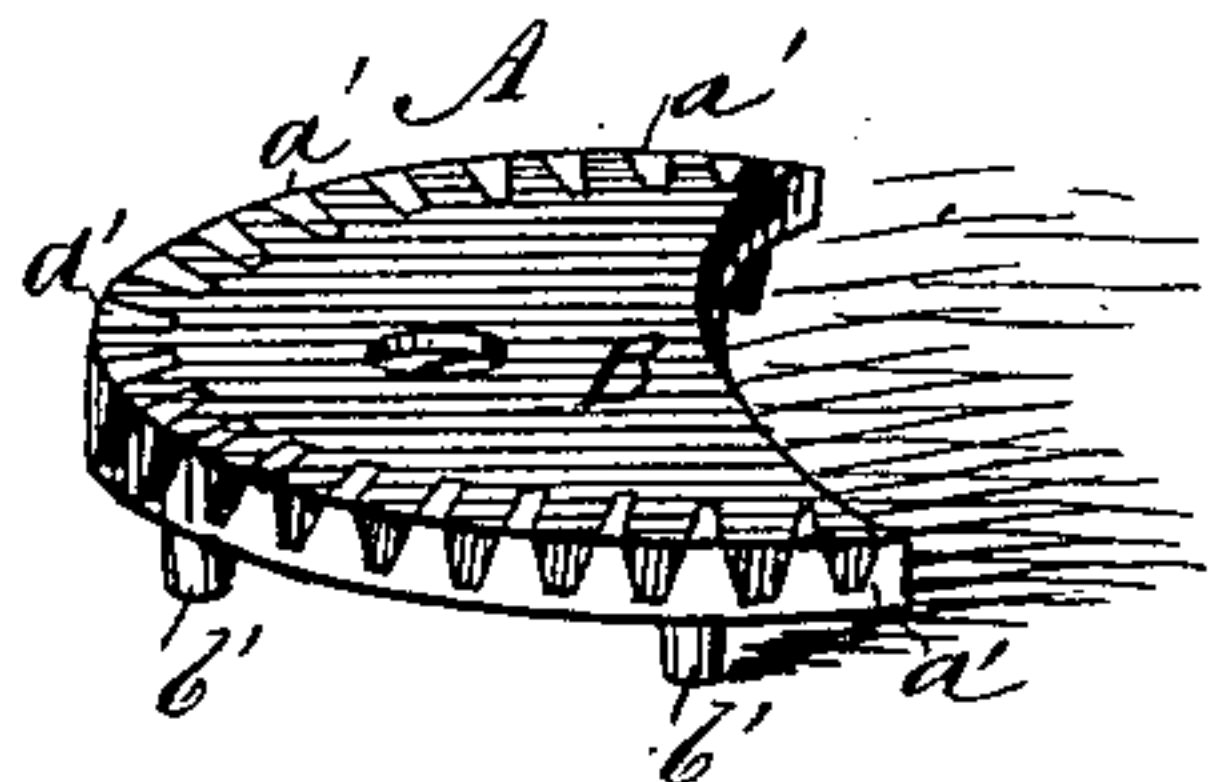


Fig. 2

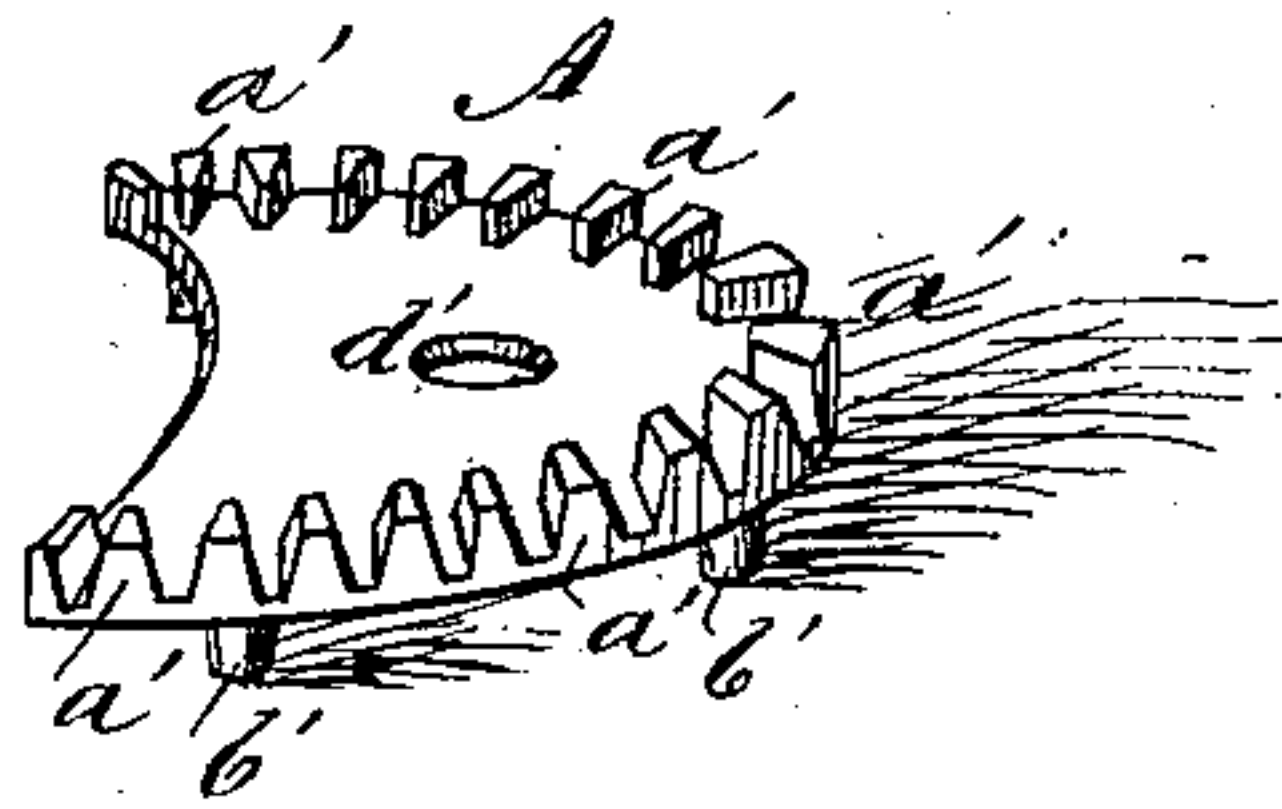


Fig. 5

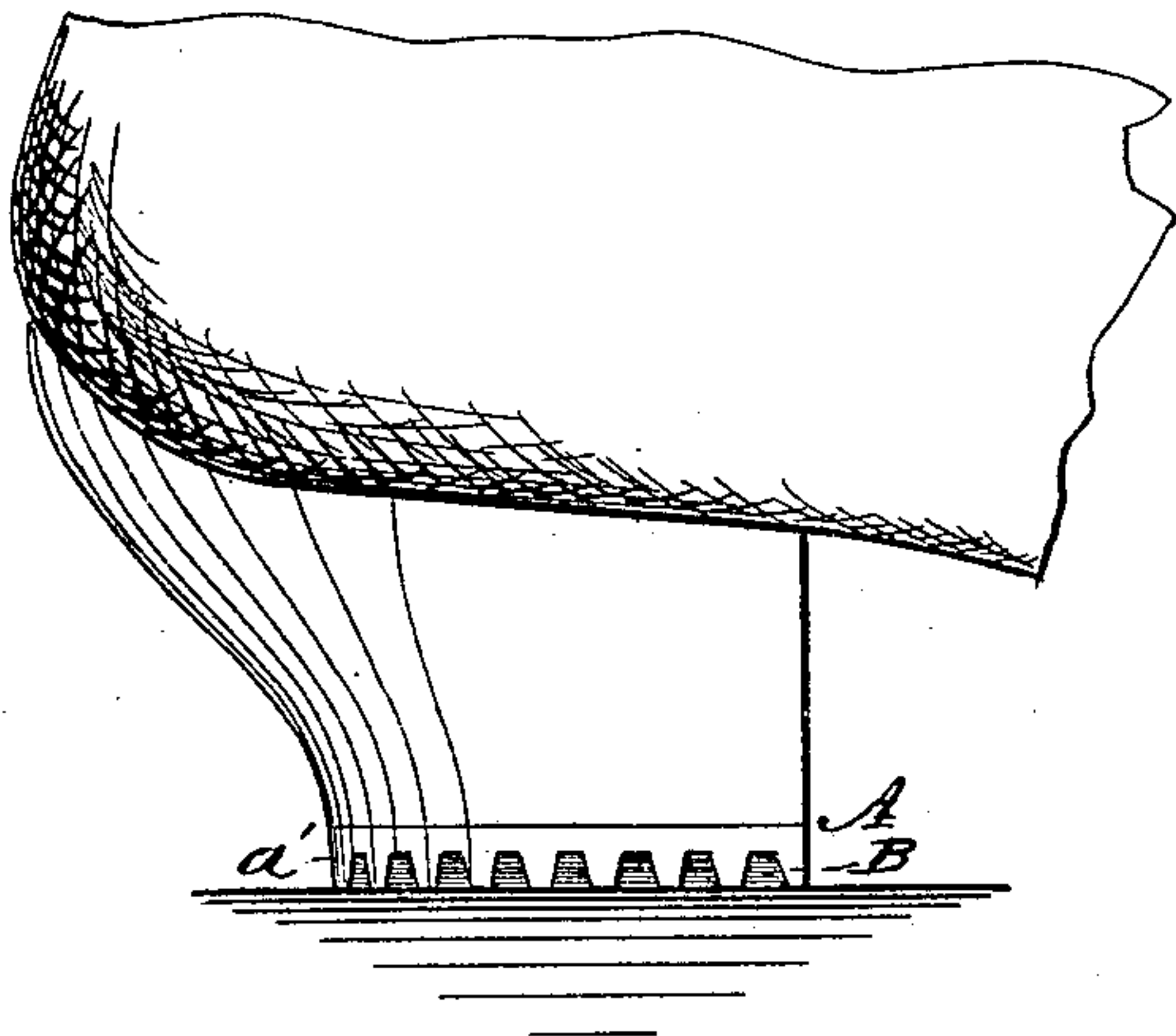
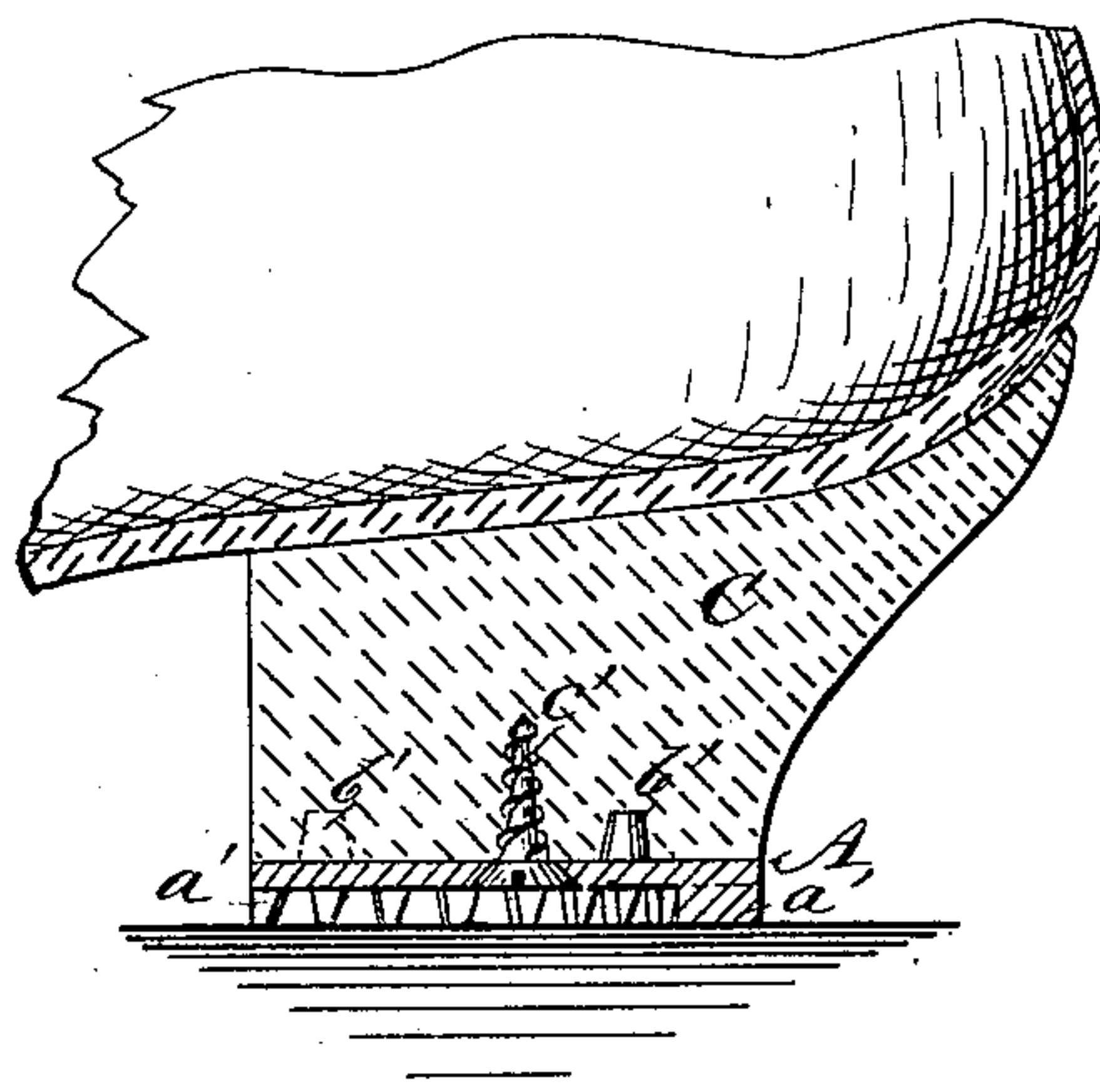


Fig. 4



WITNESSES:

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UNITED STATES PATENT OFFICE.

SIDNEY CROWLEY, OF MANCHESTER, COUNTY OF LANCASTER, ENGLAND.

HEEL-PLATE FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 238,362, dated March 1, 1881.

Application filed September 5, 1879.

To all whom it may concern:

Be it known that I, SIDNEY CROWLEY, of Manchester, England, have invented an Improvement in Heel-Plates, of which the following is a specification.

Figure 1 of drawings is a perspective view, showing studs on upper face of plate; Fig. 2, a perspective view of the bottom of plate, showing wedge-shaped teeth and intermediate concavities. Fig. 3 is the same view with the filling in place. Figs. 4 and 5 are sectional elevations, showing the invention applied.

The invention has for its object to prevent, by the studs on the upper side of plate, the turning of the latter on its central fastening-screw, and also the securing of the filling within the rim of plate by the wedge-shaped concavities between the teeth.

A represents the plate; B, the filling, of leather or other elastic substance, and C the boot or shoe heel. C' is the ordinary central screw, by which the plate is attached to the heel by passing with shank through the hole *d'* into the solid leather of the heel, while the head is received in a countersink on the under side of plate. I arrange on the upper side preferably three studs, *b'*, which fit into corresponding recesses of the heel and prevent the plate from turning.

In holding the filling B in place I am aware

that a solid rim and a serrated rim have been employed, but the teeth or serrations were merely points to prevent slipping. I make wedge-shaped serrations or broad wedge-shaped teeth, between which the opening or concavity tapers decreasingly toward the bottom.

The filling is made of the same size as the plate, and then forced, by pressure, within the rim, while its edge is cut into strips, that are wedged tightly between the teeth *a'*, so as to render unnecessary any auxiliary fastening.

What I claim as new is—

1. A heel-plate provided with a central screw-perforation and projecting studs upon the upper surface, substantially as and for the purpose specified.

2. The combination of the metallic heel-plate having teeth or projections, as shown, and the filling provided with edge projections adapted to fit between the teeth of the heel-plate when forced onto the lower surface of the plate, substantially as shown and described.

SIDNEY CROWLEY.

Witnesses:

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