

A. J. KROLL.
SHOE SUPPORT.
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995,793.

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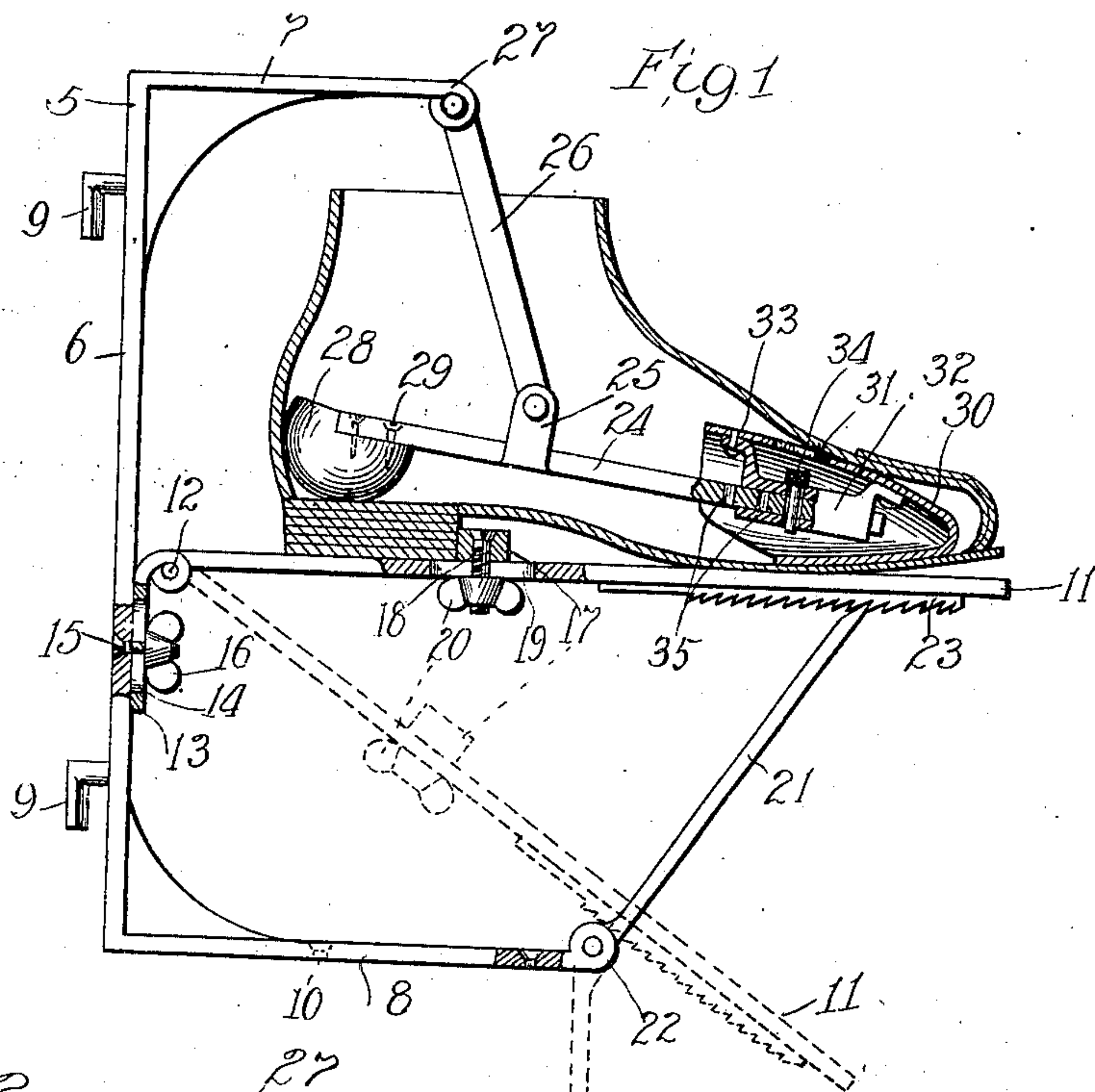


Fig. 2

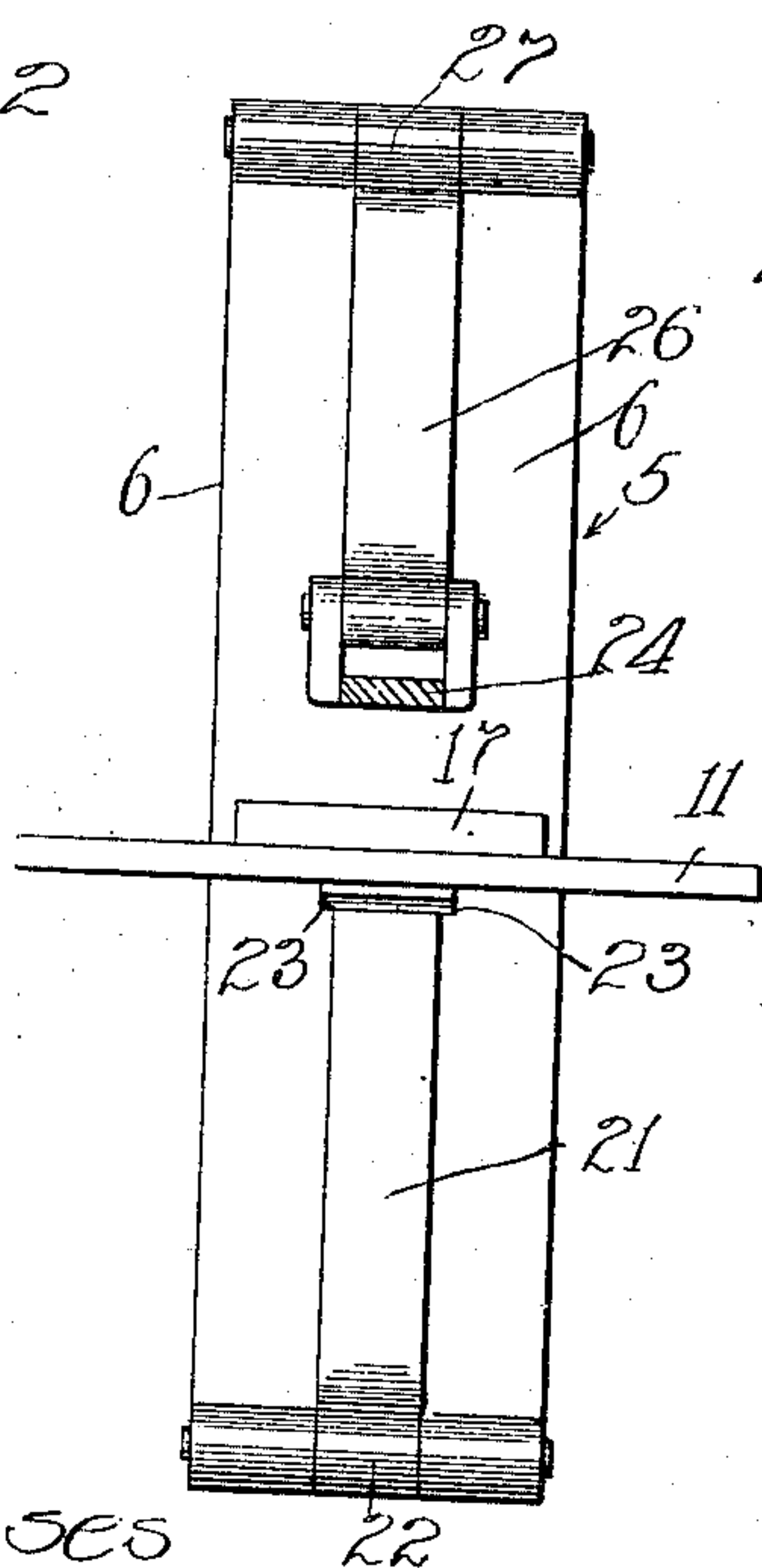
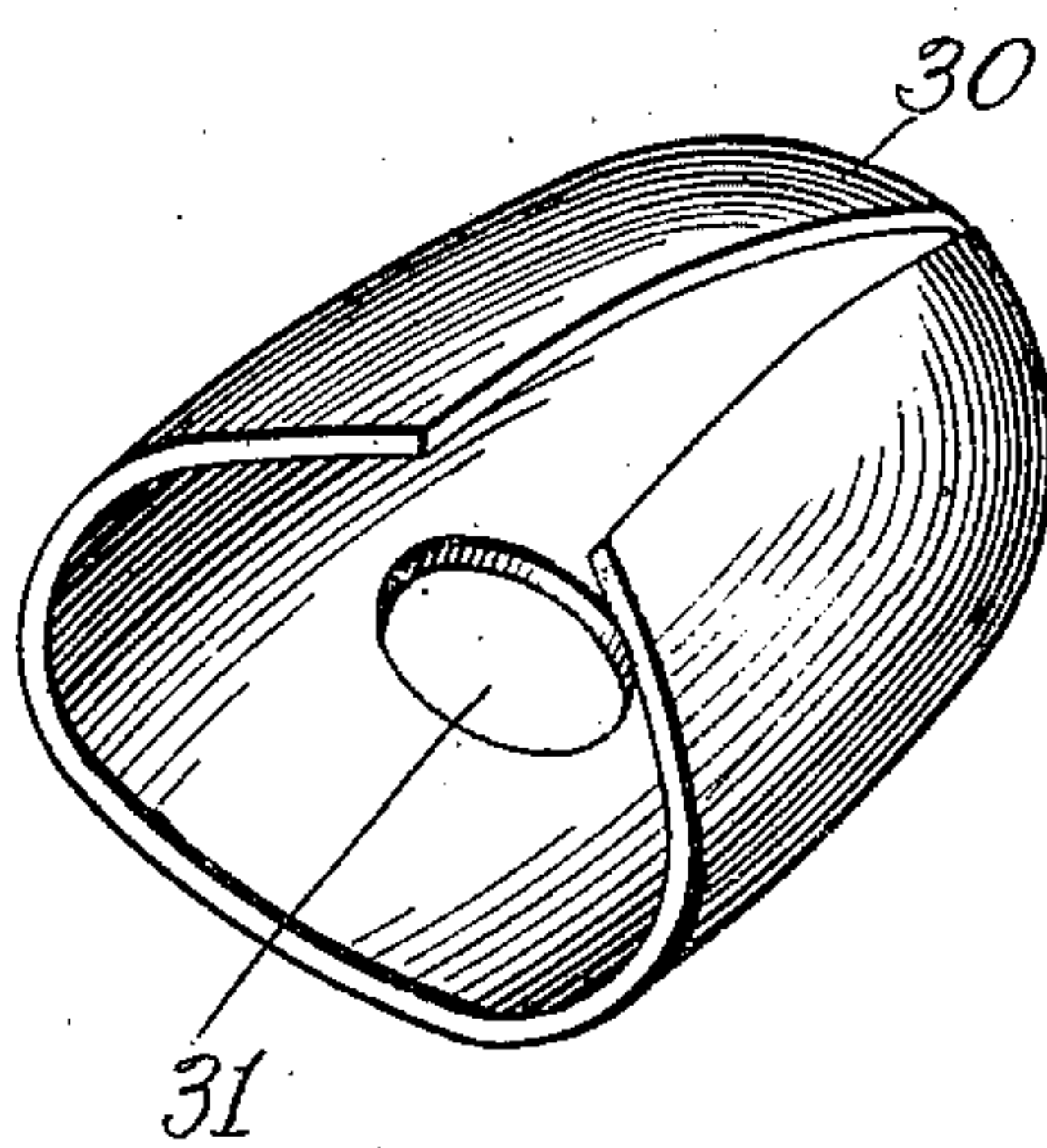


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

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SHOE-SUPPORT.

995,793.

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To all whom it may concern:

Be it known that I, ADAM J. KROLL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Shoe-Supports, of which the following is a specification.

My invention relates to improvements in shoe supports and more particularly to devices for holding shoes in a given position for polishing, or the like.

One of the objects of my invention is to render adjustment and readjustment of the shoe in desired positions easy and positive, and to render the device adaptable for use with shoes of different sizes without undue straining or stretching of the shoe.

Another object of my invention is generally to improve the construction of such devices to render efficient operation possible in a cheaply and easily constructed device.

Other objects of my invention will become apparent from the following description of an embodiment thereof, taken in conjunction with the accompanying drawings, wherein—

Figure 1 is a central vertical section, showing a device with the shoe emplaced therein; Fig. 2 is a front elevation with parts broken away; and Fig. 3 is a perspective inverted view of a suitable toe-form for use in conjunction with my device.

In the construction shown, 5 indicates a main frame, adapted to support the movable parts of the structure, and comprising in its construction a back member, 6, an upper forwardly projecting arm, 7, and a lower forwardly projecting arm, 8, the frame being provided with suitable means for attachment of the frame to a wall, as downwardly turned hooks, 9, to engage sockets (not shown). Screw holes, 10, may also be provided in the lower arm, 8, of the frame for reception of screws to secure the frame to a suitable horizontal support or table.

The frame described carries the shoe-holding members, which comprise generally a form for insertion within the shoe and a foot plate or shelf to contact with the bottom of the shoe, supported from the frame at both ends.

Specifically, 11 indicates the plate, pivotally connected, as at 12, at its rear end to a hinge member 13, which is secured to and vertically adjustable upon the vertical back

member, 6, of the frame. Such adjustable connection may conveniently be afforded by the provision of a longitudinal slot 14 in said member 13, to receive a guiding screw, 15, projecting from the back-plate 6 through the slot and carrying a wing-nut 16 by which, obviously, the hinge member 13 may be secured in any desired position of adjustment. The plate or shelf 11 receives upon its upper surface the sole and heel of a shoe to be supported by the device, and suitable means are preferably provided for preventing the shoe from moving forwardly upon the said support. To this end, I provide upon the plate a heel cleat, 17, longitudinally adjustable by the screw, 18, extending through a slot 19 in the plate and receiving the wing-nut 20, so that obviously the cleat may be longitudinally adjusted to meet the requirements of the particular shoe.

For supporting the plate 11 at its front end and maintaining said plate at any desired slope relative to the back 6, I provide a strut 21, pivotally connected as at 22 to the front extremity of frame member 8, and at its upper end shaped for engagement with a toothed rack or straight ratchet, 23, secured to the under side of plate 11.

The parts described cooperate through the shoe with the interior form, heretofore mentioned, to retain the shoe in the desired position and to steady it against substantial movement in any direction. The interior shoe form may be of any desired construction, connected to the frame preferably in such manner that the form may assume different angles to the back 6 appropriately to cooperate with the plate 11 in accommodating shoes of widely variant heights of heel, and to facilitate the presentation of the shoe in such position as the user may find most convenient for his work. Specifically, the form provides as a shank, a bar 24, having ears 25, pivotally connected to link, 26, which in turn is pivotally connected, as at 27, to the upper frame arm 7. I prefer that the shoe form shall be adjustable to accommodate shoes of different lengths and widths, but I deem it unnecessary and generally undesirable that the shoe form shall be expansible to exert a tension on the shoe, for the reason that such tension is apt to stretch or crack the leather of the shoe or strain the stitching thereof. Therefore, the form which I preferably employ provides a heel block, 28, suitably secured to the shank

bar 24 as by screws 29, smoothly to engage the heel portion of the shoe and of sufficient height to raise the shank bar 24 above the shank of the shoe, to prevent breaking down of the instep arch of the latter. The front end of the shank bar 24 has detachably and adjustably secured thereto a toe form, 30, it being my preference commercially to supply the device with a set of different toe forms suitable to use in different widths or styles of toe. The particular construction which I have shown for purposes of full disclosure provides a toe form 30 of sheet metal (shown inverted in Fig. 3) providing an opening, 31, in its top underlain by socket, 32, to receive the end of bar 24, and rigidly attached to the form member 30 as by rivets, 33. A pin 34 extending through apertures in the socket 32 and one of a series of corresponding apertures 35 in the bar 24, effects the operative connection between the toe form and shank bar, the pin being obviously removable through the opening 31 to permit ready readjustment or replacement of the form 30.

In use, to place a shoe in position on the form, the toe member 30 is suitably adjusted on the end of the shank bar and inserted into the shoe, the heel block 28 being then pushed down to the position shown in Fig. 1 of the drawings. For purposes of this operation, the plate 11 and strut 21 are dropped to the position shown in dotted lines. Obviously, the connections of the shoe form enable the shoe to be swung forward and backward and tilted to different angular positions, but restrain it against lateral displacement. The shoe is moved to a suitable position for convenient work, and, where the link is pivoted to the shoe form as shown, the lower end of the link should be in front of the upper pivot thereof. Now the plate 11 is adjusted at its rear end to a suitable height and its front end is swung upward into firm contact with the bottom of the shoe and the strut 21 brought into suitable engagement with its rack 23 to retain the plate in such position. The heel cleat, 17, is likewise adjusted to suitable position, to receive the heel and the shoe is thus firmly clamped to be polished. It will be understood that in practice, the device once adjusted will require readjustment only where there is a widely different shoe to be accommodated from that for which the adjustment was made, but the range of adjustment provided preferably makes the device practically universally applicable.

When the shoe is positioned upon the holder as shown in Fig. 1, it is firmly held in position against substantial movement in any direction, but the restraint against movement is imposed without any detrimental stretching or tensioning of the material of the shoe, and the angle of presen-

tation of the shoe may be considerably changed at pleasure to facilitate work thereon.

What I claim is:

1. In a device of the character described, a frame, a shoe form, for interior engagement with a shoe, carried by the frame, a shoe rest having a single pivotal connection with the frame for direct movement into engagement with the bottom of the shoe, and a rest-supporting member movable into or out of engagement with the rest, respectively to hold the latter in engagement with the shoe or to free it for pivotal movement away from the shoe.

2. In a device of the character described, a frame, a shoe rest pivotally secured thereto, means for positively defining the slope of said shoe rest, means pivoted to the frame for securing a shoe upon said rest against lateral movement, and means on the rest for preventing forward movement of the shoe.

3. In a device of the character described, a frame, vertically adjustable shoe rest pivoted thereto, adjustable means supporting the front end of said rest and defining the slope thereof, a form engaging the interior of the shoe, a pivotal connection between the form and the frame above the rest, and means upon the shoe rest for preventing forward movement of the shoe away from the rest.

4. In a device of the character described, a frame providing a back and a lower arm, a shoe rest adjustable vertically of the frame and movable pivotally with respect thereto, a strut pivoted to the lower arm engaging the under surface of the shoe rest, a cleat on the rest to limit the forward movement of the shoe thereon, a form for insertion in the shoe, and pivotal connections between said form and the frame.

5. In a device of the character described, a frame providing an upper and a lower arm, a vertically adjustable shoe rest pivoted to the frame, a rack upon the under surface of the shoe rest, a strut pivoted to the lower arm of the frame for engagement in the teeth of said rack to determine the slope of the shoe rest, a cleat upon the shoe rest for limiting the forward movement of the shoe, and a form pivoted to the upper arm of the frame for limiting lateral and rearward movement of the shoe.

6. In a device of the character described, a frame, a shoe rest adjustable as to its vertical position and slope, a form for engaging a shoe, pivotal connections between said form and the frame to allow a shoe held by said engaging means to be brought into contact with the rest at the desired slope, and a projection on the rest for preventing the shoe from being moved out of contact therewith.

7. In a device of the character described, a frame, a shoe form horizontally pivoted thereto to limit the lateral movement of the form and permitting fore and aft movements thereof, a rest member vertically adjustable on the frame, for engaging the bottom of a shoe, and means for preventing longitudinal movement of a shoe upon the rest.

10 8. In a device of the character described, the combination of a frame, a shoe form connected therewith, a rest member for engagement with the bottom of a shoe, a pivotal connection between one end of said rest and the frame, and a strut pivoted to the frame for engagement or displacement with the rest, respectively to hold it in contact with the shoe or to free it for its pivotal movement.

20 9. In a device of the character described, the combination of a frame, a shoe form

connected therewith, a rest member for engagement with the bottom of a shoe, independent supporting connections between opposite ends of said rest and the frame, said connections being independently adjustable to vary the slope of the rest.

10. In a device of the character described, the combination of a frame, a shoe form connected with the top of the frame, a rest member for engagement with the bottom of a shoe pivotally connected to the frame at one end, and an adjustable supporting connection between the opposite end of said rest and the bottom of the frame.

In testimony whereof I hereunto set my hand in the presence of two witnesses.

ADAM J. KROLL.

In the presence of—

MARY F. ALLEN,
W. LINN ALLEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
