M. ROSSOVITS.

LAST.

APPLICATION FILED MAY 10, 1912.

1,068,009.

Patented July 22, 1913.

2 SHEETS—SHEET 1.

Fig. 1.

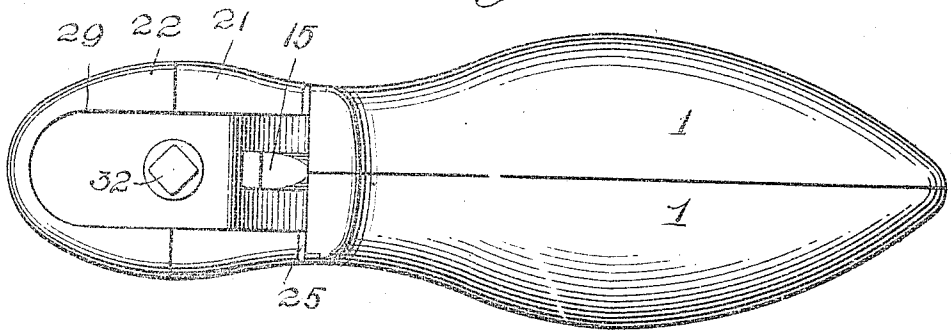



Fig. 2.

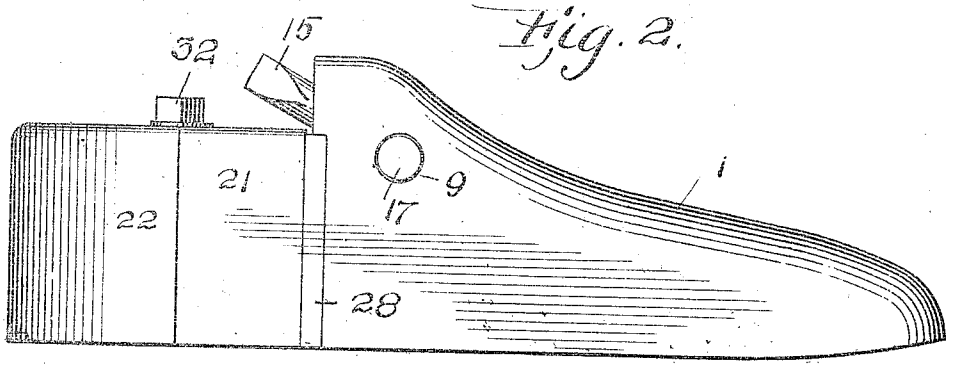
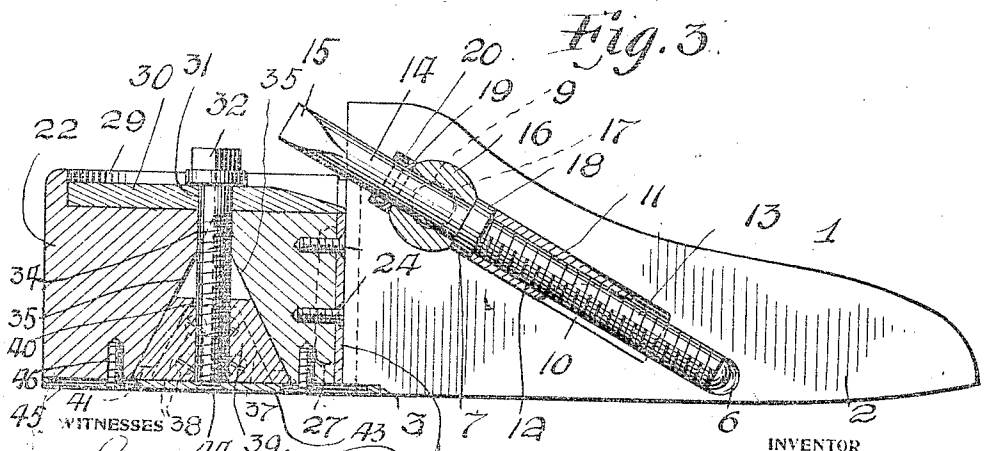



Fig. 3.




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2 SHEETS—SHEET 2.

Fig. 4.

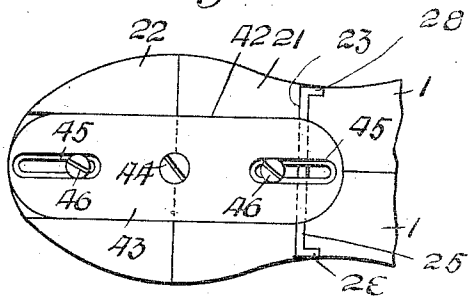



Fig. 5.

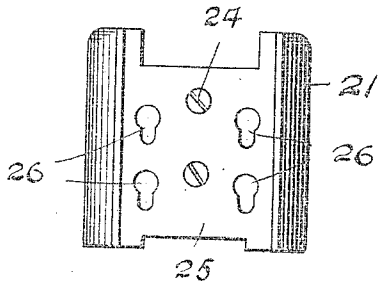



Fig. 6.

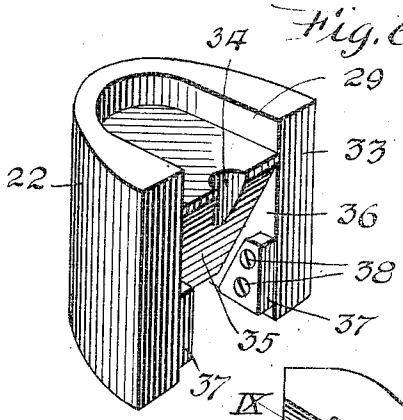



Fig. 7.

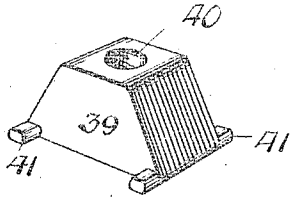



Fig. 8.

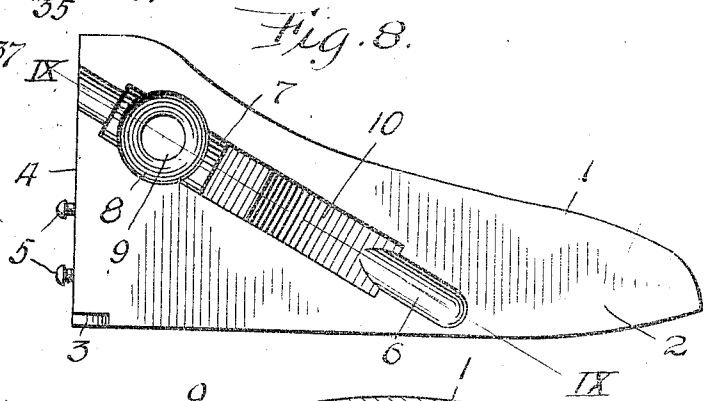



Fig. 9.

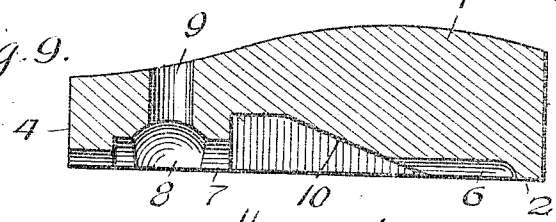
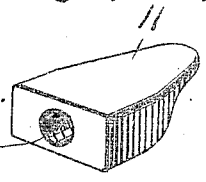



Fig. 10.




WITNESSES

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# UNITED STATES PATENT OFFICE.

MARTIN ROSSOVITS, OF JOHNSTOWN, PENNSYLVANIA.

## LAST.

1,068,002. Specification of Letters Patent. Patented July 22, 1913.

Application filed May 10, 1912. Serial No. 696,873.

*To all whom it may concern.*

Be it known that I, MARTIN ROSSOVITS, a subject of the King of Hungary, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Lasts, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to lasts, and the primary object of my invention is to provide an adjustable last that can be advantageously used for stretching shoes, slippers or other footwear, or as a tree or form for retaining footwear in shape while not in use.

Another object of this invention is to provide a shoe last embodying adjustable parts that are easily and quickly adjusted to enlarge or retract the size of the last.

A further object of this invention is to provide a sectional shoe last that has sections thereof detachably connected together, each section comprising members that are adjusted through the medium of wedges moved back and forth between said members.

A further object of this invention is to accomplish the above results by a shoe last that is simple in construction, durable, inexpensive to manufacture and highly efficient for the purposes for which it is intended.

With the above and other objects in view, the invention resides in a novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawings, wherein like numerals denote corresponding parts throughout the several views, in which:—

Figure 1 is a plan of the last. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal sectional view of the last. Fig. 4 is a bottom plan of the heel members of the last. Fig. 5 is an elevation or end view of the heel members of the last. Fig. 6 is a perspective view of the rear heel members of the last. Fig. 7 is a perspective view of the detached heel wedge. Fig. 8 is a side elevation of one of the toe members of the last. Fig. 9 is a horizontal sectional view of the same taken on the line IX—IX of Fig. 8, and Fig. 10 is a perspective view of the detached toe wedge.

A last in accordance with this invention comprises two toe members that are identical in construction, therefore I deem it only necessary to describe one of said members, with reference particularly to Figs. 8, 8 and 9. The toe member is designated 1 and has a flat inner wall 2. The outer side of the toe member 1 as well as the top thereof, conform in curvature to the side of the fore part of a foot. The bottom of the member is flat and the rear end thereof is cut away, as at 3 for a purpose that will presently appear. The rear end of the member 1 is vertical relatively to the bottom of said member, and the rear vertical wall 4 of said member is provided with headed screws or pins 5.

The flat inner wall 2 of the member 1 has an angularly disposed groove, said groove extending from a point in proximity to the upper end of a wall 4 to a point contiguous to the flat bottom of said member. This groove is adapted to coöperate with a similar groove in an adjoining member in providing an angularly disposed bore, and the grooves are angularly disposed in order that the upper end of the grooves will be exposed, as will hereinafter appear. The groove 6, adjacent to the upper end thereof, is enlarged as at 7 and provided with a socket 8 that is in communication with a transverse opening 9. The groove 6 adjacent to the enlarged portion 7 thereof has a lateral tapering seat 10 to accommodate a wedge 11 that has a longitudinal opening 12 with the walls thereof screw threaded. This wedge is best shown in Figs. 8 and 10, and screwed into the opening 12 of said wedge is the screw threaded end 13 of an adjusting stem 14. The stem 14 is located in the bore formed by the grooves 6 and the upper end of the stem protrudes from the rear wall 4 of said members and is flattened or provided with a shank 15 to accommodate a key or device employed for rotating the stem. The stem 14 is rotatably held by a spherical bearing 16 through which said stem extends. The bearing 16 is located within the sockets 8 and is provided with trunnions 17 extending into the transverse openings 9 of the toe members. The stem 14 has a collar 18 engaging one end of the bearing 16 and a washer 19 engaging the opposite end of said bearing, said washer being retained in engagement with the stem 14 by a transverse pin 20. By removing the

pin 20, after the toe members have been separated, the stem 14 can be removed from the bearing 16.

Reference will now be had to the heel members best shown in Figs. 3, 4, 5 and 6. The forward heel member is designated 21 and the rear member 22. These two members conform in plan to the shape of a heel, and the forward member 21 has a vertical flat wall 23 to which is secured, by screws 24 or other fastening means a channel shaped keeper plate 25 that is provided with key shaped openings 26 to receive the headed screws or pins 5 of the toe members 1. The forward heel member 21 is recessed, as at 27 to provide clearance for the heads of the screws 5 that are placed in the openings 26 to connect the toe members 1 to the forward heel member. The vertical flanges 28 of the keeper plate 25 engage the side edges of the toe members 1, as best shown in Fig. 4. This connection is made with sufficient looseness and clearance between the parts so as to permit the toe members being spread by the adjusting of stem 14. The upper ends of the heel members 21 and 22 are recessed as at 29 to receive a screw plate 30 and rotatably mounted in said plate is a vertical screw 31 that has a rectangular shank or head 32 to accommodate the key or some instrument that is placed upon the end of the stem 14 for adjusting said stem. The screw 31 extends between the confronting faces 33 of the members 21 and 22 and these confronting faces are grooved, as at 34 to provide clearance for the screw 31. The confronting faces of the members 21 and 22 are furthermore cut away to provide a wedge seat 35 and the side walls 36 of said seat have guides 37 that are retained in engagement with the walls 36 by screws 38.

Movably mounted upon the seat 35 of the members 21 and 22 is a wedge 39 that has a vertical opening 40 with the walls thereof screw threaded to receive the screw 31. The wedge 39 has the large end thereof provided with sets of lugs 41 that ride between the seat 35 and the guides 37, said lugs guiding the wedge 39 in its movement when the screw 31 is adjusted. The lower ends of the heel members 21 and 22 have a longitudinal groove 42 to accommodate an anchor plate 43. This anchor plate is riveted or otherwise connected to the lower end of the screw 31, as at 44, the connection allowing the screw 31 to be rotated without becoming disconnected from said plate. The forward end of the anchoring plate 43 extends into the cut away portion 3 of the toe members 1, and said plate has longitudinal slots 45 to provide clearance for the head of screws 46 that are mounted in the lower ends of the members 21 and 22. These screws prevent the anchoring plate 43 from becoming displaced, besides guiding and adjusting of the heel members.

From the foregoing it will be observed that by adjusting the screw 31, the heel members 21 and 22 can be longitudinally adjusted, that is, said members can be separated or drawn together through the medium of the wedge 39.

The forward ends of the toe members 1 can be separated through the medium of the stem 14 and the wedge 11, and the adjustable toe members coöperate with the adjustable heel members in stretching a shoe or sustain its form while the shoe is not in use.

What I claim is:—

1. A shoe last comprising a pair of adjustable heel members, each of said members formed with a recess having one wall inclined and each of said members further provided with a pair of guide ways, a plate countersunk in the bottoms of said members and of greater length than the combined length of the members, means for slidably connecting said plate to said members, a vertically movable adjusting wedge capable of engaging the inclined walls of said recesses for shifting said members relatively to each other, said wedge provided with lugs traveling in said guide ways, a rotatable threaded stem engaging with said wedge for supporting and adjusting it, and means for rotatably connecting the lower end of said stem to said plate.

2. A shoe last comprising a pair of toe and a pair of heel members, a plate countersunk in the bottoms of said heel members and further having one end countersunk in the bottoms of said toe members, means for slidably connecting said plate to said heel members, a channel-shaped keeper plate secured to that heel member opposing the toe members and provided with key-hole shaped openings, headed pins carried by the toe members and engaging in said keeper plate for loosely connecting the toe members to that heel member provided with the keeper plate, a vertically movable means for adjusting said heel members relatively to each other, and a longitudinally movable means for adjusting said toe members relatively to each other.

In testimony whereof I affix my signature in the presence of two witnesses.

MARTIN ROSSOVITS.

Witnesses:
STEPAN FIRET,
S. W. STEFFEY