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P. HEIN

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SHOEMAKER'S LAST

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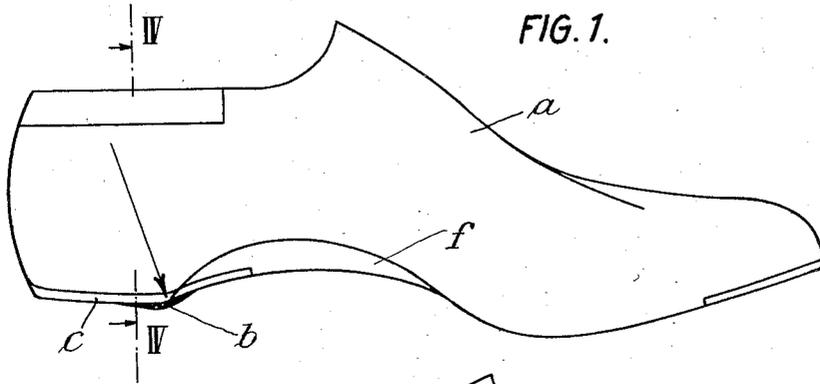


FIG. 1.

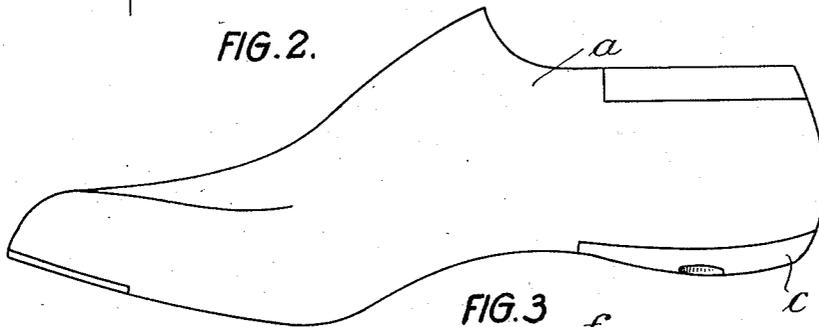


FIG. 2.

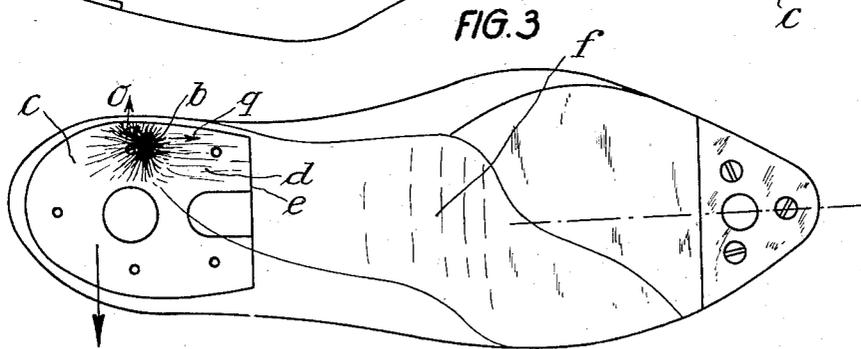
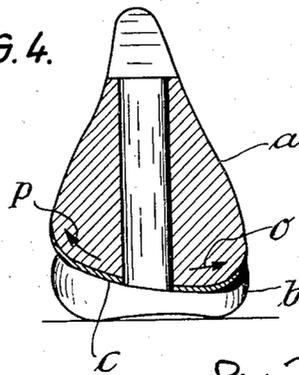


FIG. 3.

FIG. 4.



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# UNITED STATES PATENT OFFICE

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## SHOEMAKER'S LAST

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Application April 9, 1935, Serial No. 15,475  
In Germany February 18, 1933

2 Claims. (Cl. 12-133)

The invention relates to shoemaker's lasts of the kind in which there is in the sole a cavity extending from the front edge of the heel portion forward towards the ball.

According to the invention this cavity is made to terminate, at the inside of the heel portion, in a moderately steep slope rising to a crest formed at that part of the heel, the crest being in such position that it will produce in the shoe a slope in the region supported by the heel.

The effect of the construction referred to is to lift the foot on the inside of the heel, and preferably the lift is made to extend forward to the ball of the small toe, by means of a metatarsal, ankle and ball support, which is accurately seated and held in position in the cavity by abutting against the slope produced in the shoe by means of the crest. The weight on the arch of the foot is reduced by transferring a large part thereof to the heel.

A last constructed according to the invention is shown by way of example in the accompanying drawing, the same being a last for the left foot.

Fig. 1 is an elevation thereof, viewed from the inner side, and

Fig. 2 is an elevation thereof, viewed from the outer side.

Fig. 3 is a bottom plan view, and

Fig. 4 is a vertical section on the line IV-IV of Fig. 1.

In the drawing *a* designates the body of the last, and *b* is the crest hereinbefore referred to, the same being on the inside of the heel cap *c*. This crest slopes away at different angles in different directions. Toward the right hand side (or inside) of the shoe, in the direction indicated by the arrow *o* in Figs. 3 and 4, there is a steep slope. In the opposite direction (arrow *p*) the slope is gradual. In the direction toward the ball of the foot there is a moderately steep slope *d* to the front edge *e* of the heel cap, at and joined with the rear portion of the cavity which extends forwardly towards the ball at the outer side of the last. Thus an elastic instep support *f*, made

in one piece or several pieces and extending rearwards beyond the arch, can rest directly against the crest and is by this means maintained in a predetermined position in the cavity. The support will consequently not only afford support to the foot but will also keep it straight.

Notwithstanding the special shape given to the last, according to the invention, the heels used for the shoes may be of the customary kind.

I claim:

1. A shoemaker's last having a cavity formed in the sole of the last extending forwardly from adjacent the inner side of the heel portion in a slanting direction across the last to that portion of the last corresponding to the location of the ball of the little toe of a foot when in a shoe made on the last, the heel portion of the last having a dome-shaped elevation adjacent the inner side thereof terminating in a crest spaced rearwardly from the forward edge of the heel portion, and the said elevation providing a relatively steeply sloped surface at the forward side thereof within the area of the heel portion, which surface extends forwardly to and merges gradually into said concavity.

2. A shoemaker's last having a cavity formed in the sole of the last extending from the forward side of the heel portion adjacent the inner side of such portion, across the last to that portion thereof corresponding to the ball of the little toe, the heel portion of the last formed with a dome-shaped elevation adjacent the inner side thereof terminating in a crest spaced rearwardly from the forward edge of the heel portion, said elevation providing a relatively steeply sloped surface at the forward side thereof which extends forwardly to and joins with said cavity and on its outer side provides a surface sloping upwardly across the heel portion of the last to the outer side thereof, and the said cavity slanted outwardly across the sole of the last between such heel portion elevation and the location of the ball of the little toe of a foot.

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