

P. P. PAUL.
Shoe-Lasts.

No. 145,124.

Patented Dec. 2, 1873.

Fig. 1

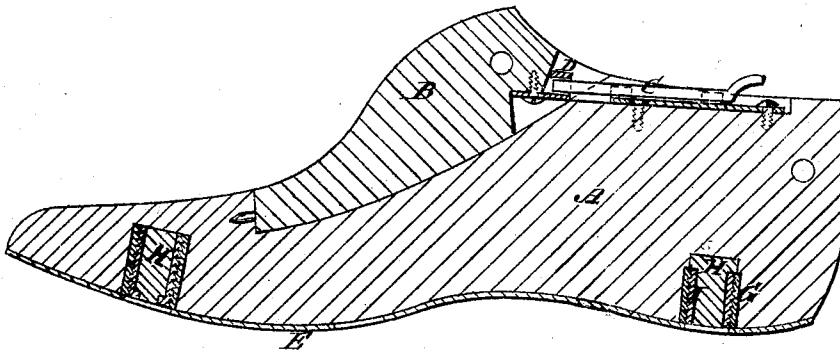
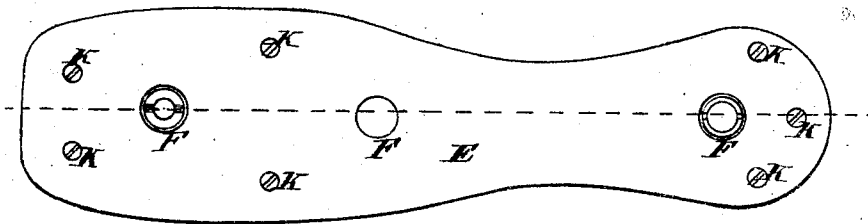


Fig. 2.



Witnesses.

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PARKER P. PAUL, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN SHOE-LASTS.

Specification forming part of Letters Patent No. **145,124**, dated December 2, 1873; application filed March 1, 1873.

To all whom it may concern:

Be it known that I, PARKER P. PAUL, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Shoe-Lasts; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification.

The invention consists of detachable plugs of wood and a fastening device therefor in the bottom of the last, for driving the tacks into and temporarily fastening them on the soles, the object of which is to remove the plugs and fit in new ones from time to time as they wear out, and thus always have solid substance for the tacks. This part is applicable to the soles having a metal plate on the bottom for riveting or clinching the tacks by which the insole is fastened to the upper in the process of making machine-sewed shoes, holes being made in the metal plate for tacking the sole to the last to hold it until it is nailed to the upper, in which holes the wood is soon cut away by frequent driving in and pulling out of the tacks, so that the last is very soon ruined without my detachable plugs, which I fit in the last at these holes.

Figure 1 is a section of a last with my improvements, and Fig. 2 is a plan of the bottoms.

A is the principal portion of the last, and B the detachable instep-block. E represents the metal plate with which the bottom of the last is shod for clinching the tacks by which the insole is nailed onto the upper preparatory to sewing on the slip soles. This plate generally has three holes through it, at F, through which

to drive the tacks to temporarily fasten the insole to the last preparatory to nailing on the upper. As the tacking has to be repeated for every shoe, the wood exposed through the holes is soon cut away by the tacks, so that it will not hold any more, after which the last is comparatively worthless, although its use may be continued by driving in plugs of wood or leather; but this is very unsatisfactory, because it is difficult to fit a plug solid and firm in such holes as the tacks leave, and they cannot well be bored or reamed out to make good holes, because many pieces of broken tacks are left in; consequently many otherwise good lasts are thrown away. Now, I propose to make holes in the last coinciding with the holes through the plate, and bush them with a screw-threaded bush, G, and fasten detachable plugs H, of wood, in said holes by a hollow screw, I, which may hold the wood plugs by screwing against a shoulder near the inner end, as shown at the heel-plug, or by a collar at the outer end of the screw fitting against a shoulder at the outer end, as shown at the toe-plug in the drawing. The hollow screws will screw in and out through the holes in the plate E.

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

The combination of screw-threaded bush and hollow screw with detachable plugs, substantially as and for the purpose described.

PARKER P. PAUL.

Witnesses:

A. P. THAYER,
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