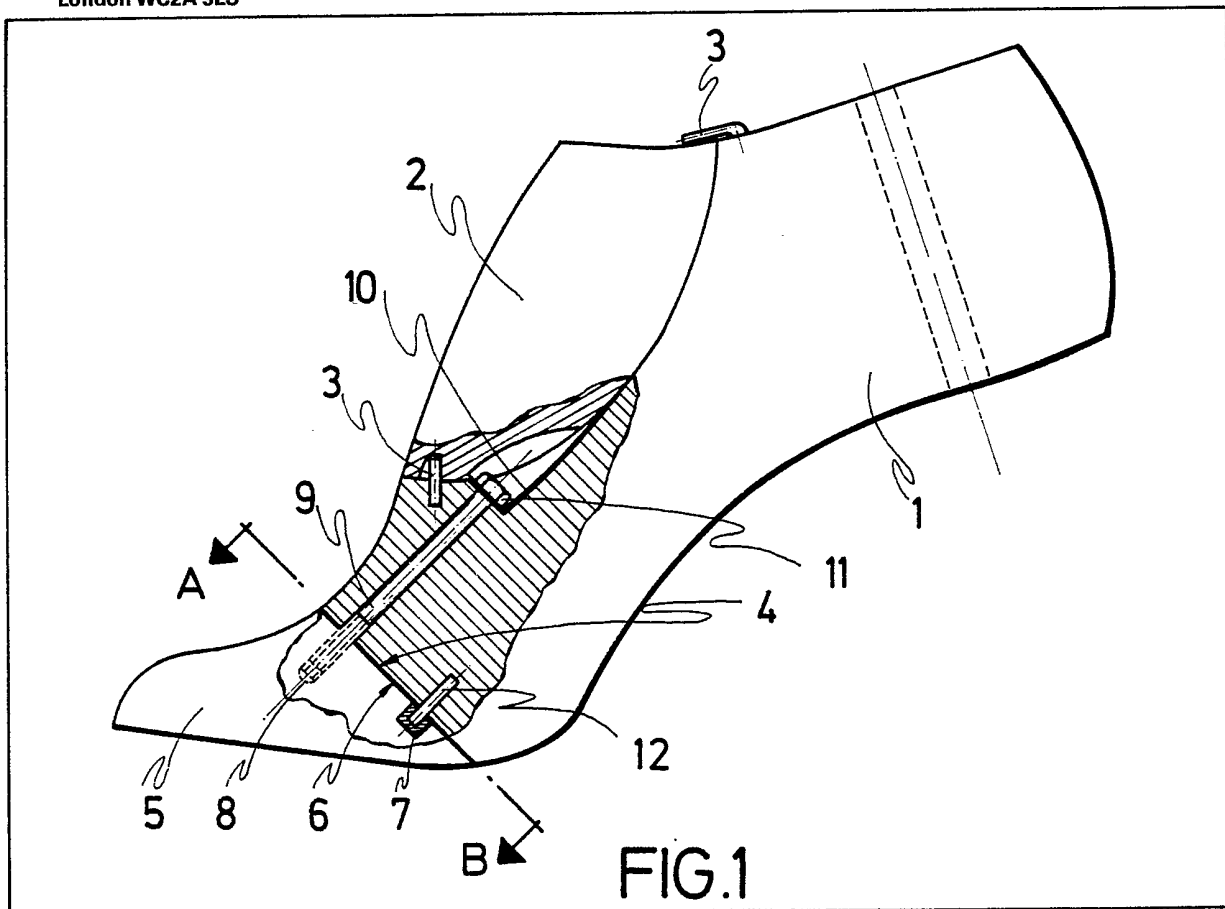
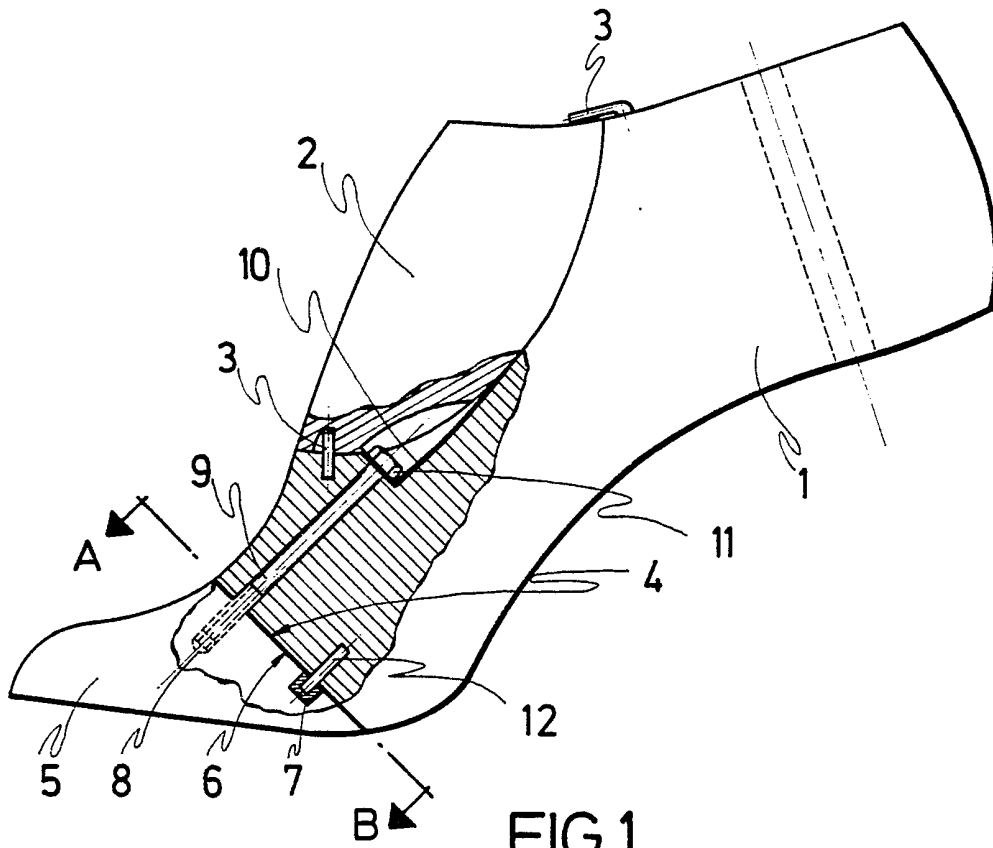


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(54) Shoe last

(57) The last comprises a solid body 1 whose anterior zone ends in a bevel 4 on which a replaceable tip 5 is positioned. Two lugs 12 on the bevel 4 project into two recessed sleeves 7 in the tip 5. A screw 9 passes through the body 1 from a cavity receiving a vamp wedge 2 to a threaded hole 9 in the tip 5.





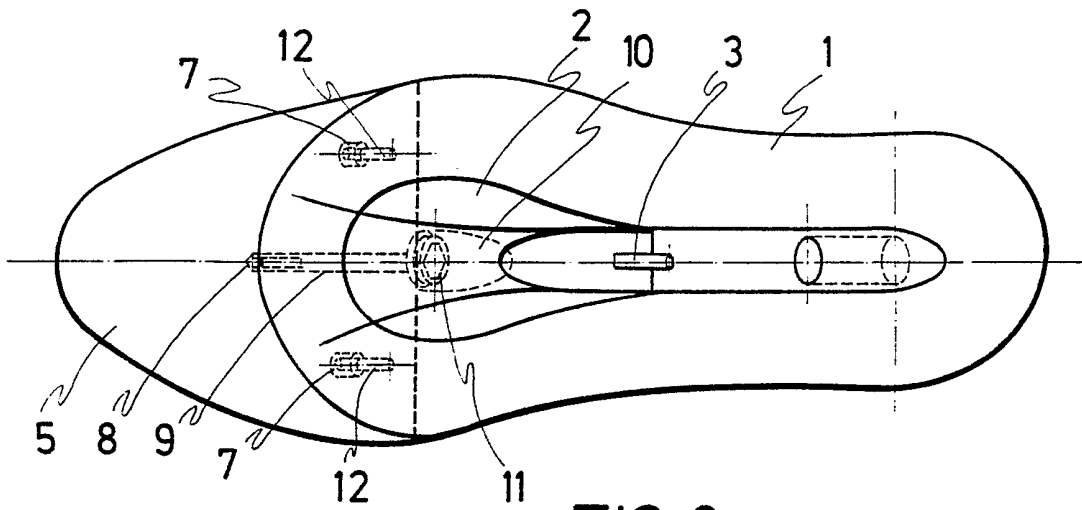


FIG. 2

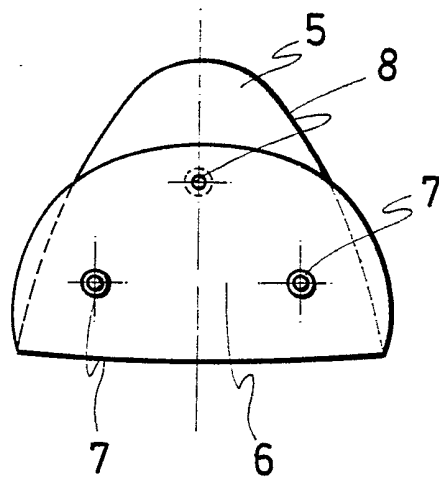


FIG. 3
A-B

SPECIFICATION

Shoe last

5 The present invention refers to a last with a replaceable tip.

In the manufacture of shoes, the last constitutes one of the main elements in the shaping thereof. A different last is necessary for each model and for each size, and different types of lasts are necessary even within the same size and the same model since the tip of the shoe can be modified within the same model and size, inasmuch as the tip constitutes an element which can be modified by the designer to give it different shapes, depending on the type of shoe to be manufactured.

Besides, the tip is also an element which can be modified in a normalized manufacture of shoes, wherein the tip, within the same model and size, is the only element which can be modified to give the shoe a different finish within, as mentioned, the same size and model.

In this sense, lasts having a replaceable tip already exist, that is, utilizing almost the totality of the last, the portion corresponding to the tip can be modified by means of an element independent of the last which is adaptable thereto by different means. The known means for joining the tip and the last are formed of screw-based flanges which join the last to the tip, the mentioned flange being placed on the outside surface of both elements, thereby constituting a serious difficulty in the shaping of the shoe, since an additional element, in this case the flange, is included either in the sole or in the vamp and this seriously hampers the final shaping of the shoe which will be provided with this inner hollow conferred thereto by the presence of the joining flange between the last and the tip.

The object of the present invention is to provide a last with a replaceable tip, the joining of which does not affect the exterior of the assembly of the last and, therefore, the mentioned assembly has the optimum characteristics for the manufacture of the shoe.

In general terms, the last will have its corresponding vamp wedge and the anterior zone thereof will have a bevel corresponding to another posterior bevel of the tip. The posterior bevel of the tip will have two recessed sleeves and a blind hole in which there could be threaded a screw which passes through the last longitudinally, from the lower zone of the upper recess of the last where the vamp wedge is placed and protruding from the anterior bevel of the last, the mentioned screw being driven at its head which is disposed in the bottom of the recess of the last where the vamp wedge will be located. Likewise the bevels of the last or the tip will be provided with holes and corresponding lugs which will permit both elements to be adjusted, to then secure joining by means of a screw driven at its head from the cavity of the vamp wedge.

With this configuration, joining between the last and the tip will not include any accessory element which is placed on the outside surface of the assembly, whereby the model of the shoe will be perfect, the piece constituting the tip being replaceable,

where necessary, and the remainder of the last being utilised for all the same models and sizes of the shoe to be made. Consequently, the length and configuration of the tip can also be varied.

70 To complement the description which will now be made and for a better understanding of the characteristics of the invention, a set of drawings is attached hereto wherein the following is represented:

75 Figure 1 represents a side elevational view of a last with a tip, a portion of which has been sectioned to illustrate the joining element between the tip and the remainder of the last.

Figure 2 corresponds to an upper plan view of the last with the replaceable tip, object of the invention.

80 Finally, figure 3 corresponds to a sectional view of figure 1 along line A-B.

As can be seen from the mentioned figures, the last with a replaceable tip comprises a solid body 1 provided with the vamp wedge 2 which is fixed to the solid body 1 by means of conventional elements 3.

The anterior zone of the solid body 1 ends in a beveled cut 4 on which there are positioned and retained different pieces 5 having the same beveled cut 6 and which correspond to the different shapes of the tip.

The posterior bevel 6 of the tip has two recessed sleeves 7 and a threaded blind hole 8 in which there fits a screw 9 which passes through the solid body 1 of the last longitudinally, from the positioning cavity of the vamp wedge 2. Between the vamp wedge 2 and the solid body 1, there is formed a hollow 10 in which the head 11 of the screw 9 is disposed.

100 The anterior bevel 4 of the solid body 1 has, furthermore, two protruding lugs 12 which are housed in the recessed sleeves 7 of the tip 5.

With this arrangement, joining between the tip 5 and the last 1 is so carried out that none of the elements having a joining function are placed on the outside of the assembly of the last, whereby the shaping of the shoe will be perfect. It, furthermore, has the advantage that the same solid body 1 can be used to make different varieties of models of the shoe by merely modifying the tip 5. Thus, shoe models having different tips are achieved without varying the last 1 which, in short, is the element presenting a higher manufacturing and tooling cost.

CLAIM

115 1. Last with a replaceable tip, of the type which comprises a solid body provided with the vamp wedge, essentially characterised in that the anterior zone thereof ends in a beveled cut on which there are positioned and retained the various pieces having the same posterior beveled cut which corresponds to the different shape of the tips, the posterior bevel of the tip having two recessed sleeves and a threaded blind hole in which a screw fits, which screw passes through the last longitudinally, from the positioning cavity of the vamp wedge, the anterior bevel of the last furthermore having two protruding lugs which are housed in the recessed sleeves of the tip.

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