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(54) **Bimaterial slipper**

(57) Bimaterial slipper characterized in that it is constituted by means of the adhesive fastening of two single parts (2 and 3) of different material, corresponding one of its parts to a sheet (2) which is stamped in order to determine the corresponding cut and bottom of the foot-

wear or slippers (1) as such, while the second part (3) is conveniently shaped for determining the sole. The sole will have the appropriate and suitable shape for allowing both materials or parts to be fastened together by use of an adhesive material.

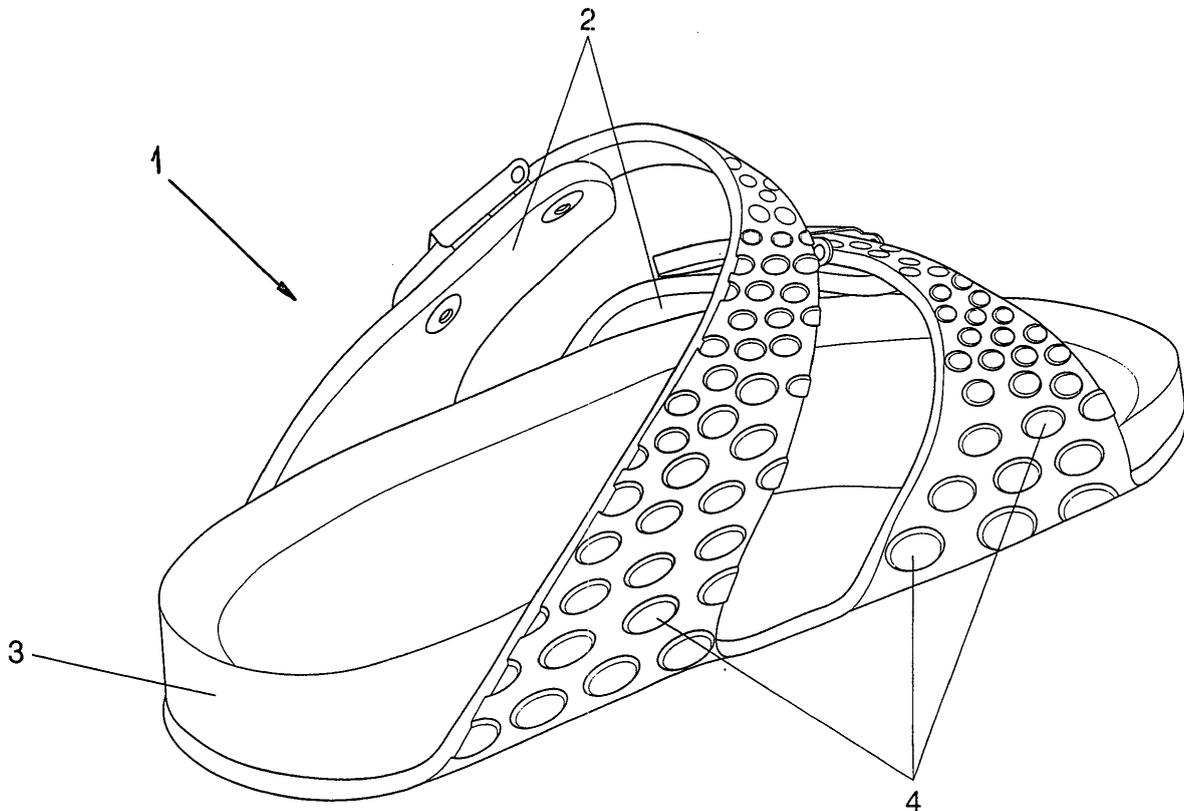


FIG. 4

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Description**OBJECT OF THE INVENTION**

[0001] The present invention, as it is expressed in the title of this specification, is related to a bimaterial slipper, which has been conceived and carried out in such a way that its constitution is exclusively determined by the fastening together of two types of materials, using a very simple manufacturing method and wherein a minimum number of people is required.

[0002] The object of the invention is to achieve a simplification of the method for obtaining a slipper and thus reducing costs.

BACKGROUND OF THE INVENTION

[0003] In the manufacturing of standard slippers, several materials are used that must be suitably fastened together, such that in the complete manufacturing method several operators take part, generally from 10 to 15 such that the final cost is high when considering that it is a simple type of footwear wherein the economy or cost thereof must have priority, also considering that in most occasions the slippers have low or medium quality.

DESCRIPTION OF THE INVENTION

[0004] The slippers object of the invention have been conceived with some characteristics allowing solving the problems and disadvantages that the standard manufacturing methods present, reducing the number of people or operators taking part and, thus, the final costs.

[0005] In this sense, the slippers of the invention are characterized in the first place by being made up of two single types of material, one corresponding to a sheet of a specific material (eva, rubber or similar) which will form what can be considered as the shoe or slippers upper and the bottom, and other corresponding to the sole, such that the sheet of specific material is subjected to a die cutting method for achieving the intended shape of the slippers, while the sole will have the appropriate and suitable shape for allowing both materials or parts to be fastened together by the use of an adhesive material.

[0006] Namely, both parts are placed into an oven, after gluing thereof and cutting the laminar part, such that the glue reactivates in the oven, and the slippers are formed by fastening together both parts by means of a pressing machine.

[0007] The materials used in the constitution of the slippers should be washable and water-proof, as well as being provided with an antibacterial and antifungal treatment.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] In order to complete the description that will be made in the following and for a better understanding of

the characteristics of the invention, a set of drawings is attached to the present specification based on which the innovations and advantages of the bimaterial slipper object of the invention will be more easily understood.

Figure 1.- Shows a plant view by the underside of the laminar part which constitutes one of the materials of the slippers of the invention.

Figure 2.- Shows a longitudinal section view corresponding to the A-A cut-off line of the previous figure.

Figure 3.- Shows an exploded perspective view of the two parts of different material taking part in the constitution of the slippers, these parts corresponding to the laminar part constitutive of the basket and the bottom, and the part constitutive of the sole, in situation for being fastened together.

Figure 4.- Shows a general perspective view of the slippers obtained by the suitable dyeing of the laminar part represented in the previous figure and the fastening of this laminar part to the sole also represented in said figure 3.

DESCRIPTION OF THE PREFERRED EMBODIMENT

[0009] In view of the aforementioned figures, it can be observed how the slippers of the invention, generally referred to with number 1 in figure 4, are constituted by fastening together two parts 2 AND 3 or materials, one as laminar part of eva, rubber or similar material, and represented in figures 1 and 2, and the other one corresponding to the sole 3, such as it can be clearly observed in the view of figure 3.

[0010] The laminar part 2 is subjected to a stamping for carrying out the cuts therein and determining the slippers as such, as it is observed in figure 4, when said laminar part 2 is stamped and fastened to the sole 3, which fastening is carried out by the bottom part of said sole 3, in order to project upward and determine the corresponding fastening straps of the laminar and stamped part 2.

[0011] In figure 1 this laminar part 2 can be observed by its underside, that is, is provided with projections 4 for support on the floor, since as it has been mentioned, said laminar part 2 will be placed in its intermediate zone below the sole 3, being materialized in eva, rubber or similar material as previously said. The sole 3 will be constituted in any suitable material provided that it admits its fastening through an adhesive of the laminar part 2. To carry out the fastening of both parts 2 and 3, they are glued, that is, their fastening surfaces are impregnated with adhesive and are subsequently placed into an oven so that the adhesive is melted and the fastening by gluing is carried out, after pressing together both parts 2 and 3 by means of a suitable machine or press.

Claims

1. BIMATERIAL SLIPPER, which being a structurally simple footwear, is **characterized in that** it is made by the adhesive fastening of two single parts (2 and 3) of different material, corresponding one of its parts to a sheet (2) which is stamped in order to determine the corresponding cut and bottom of the footwear or slippers (1) as such, while the second part (3) is conveniently shaped for determining the sole.
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2. BIMATERIAL SLIPPER, according to claim 1, **characterized in that** the laminar part (2) is constituted by rubber, eva or similar material.
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3. BIMATERIAL SLIPPER, according to previous claims, **characterized in that** both parts (2 and 3) include an antibacterial and antifungal treatment.
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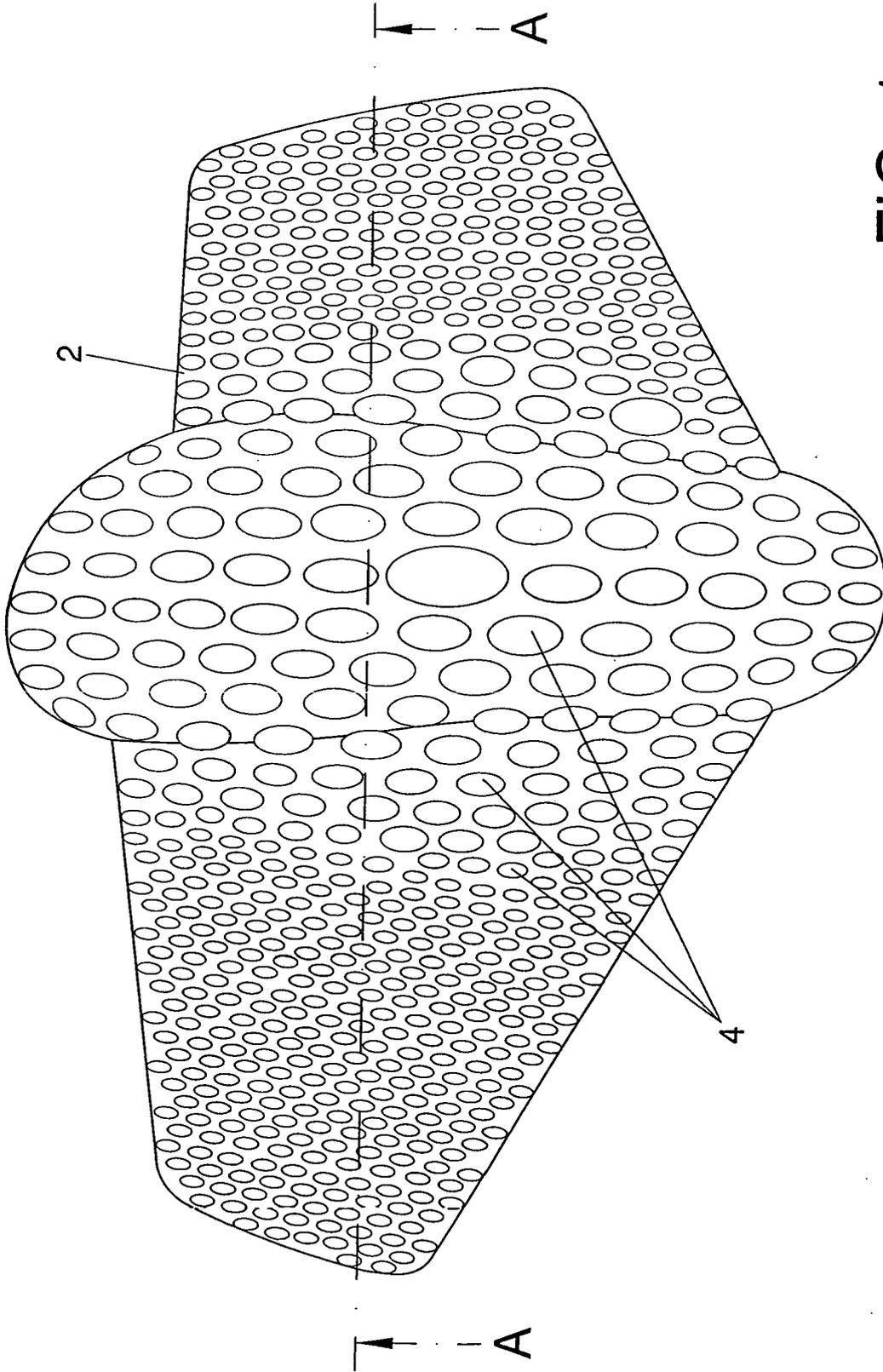
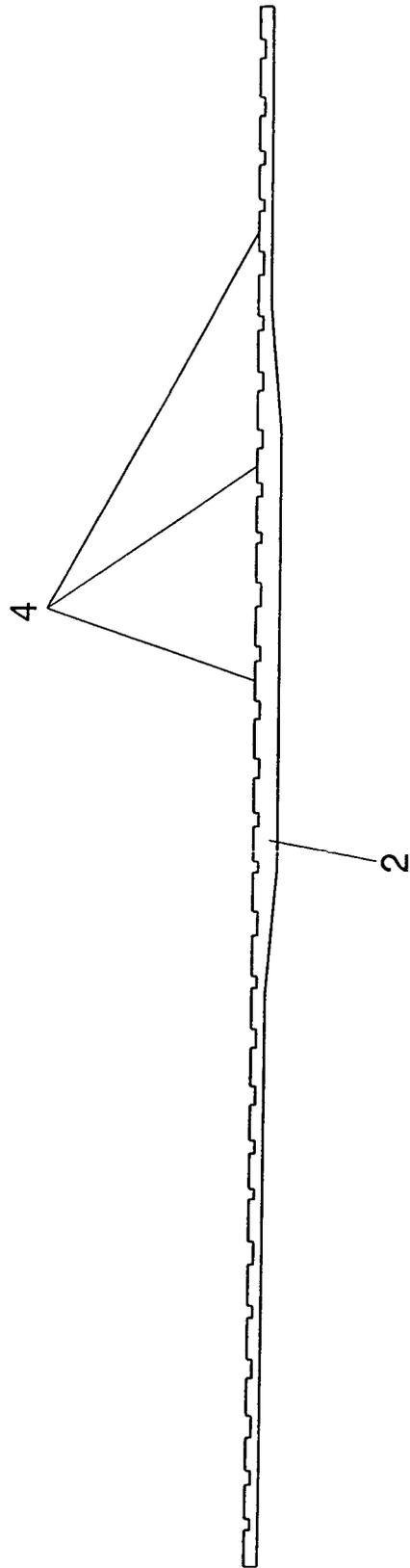


FIG. 1



A-A
FIG. 2

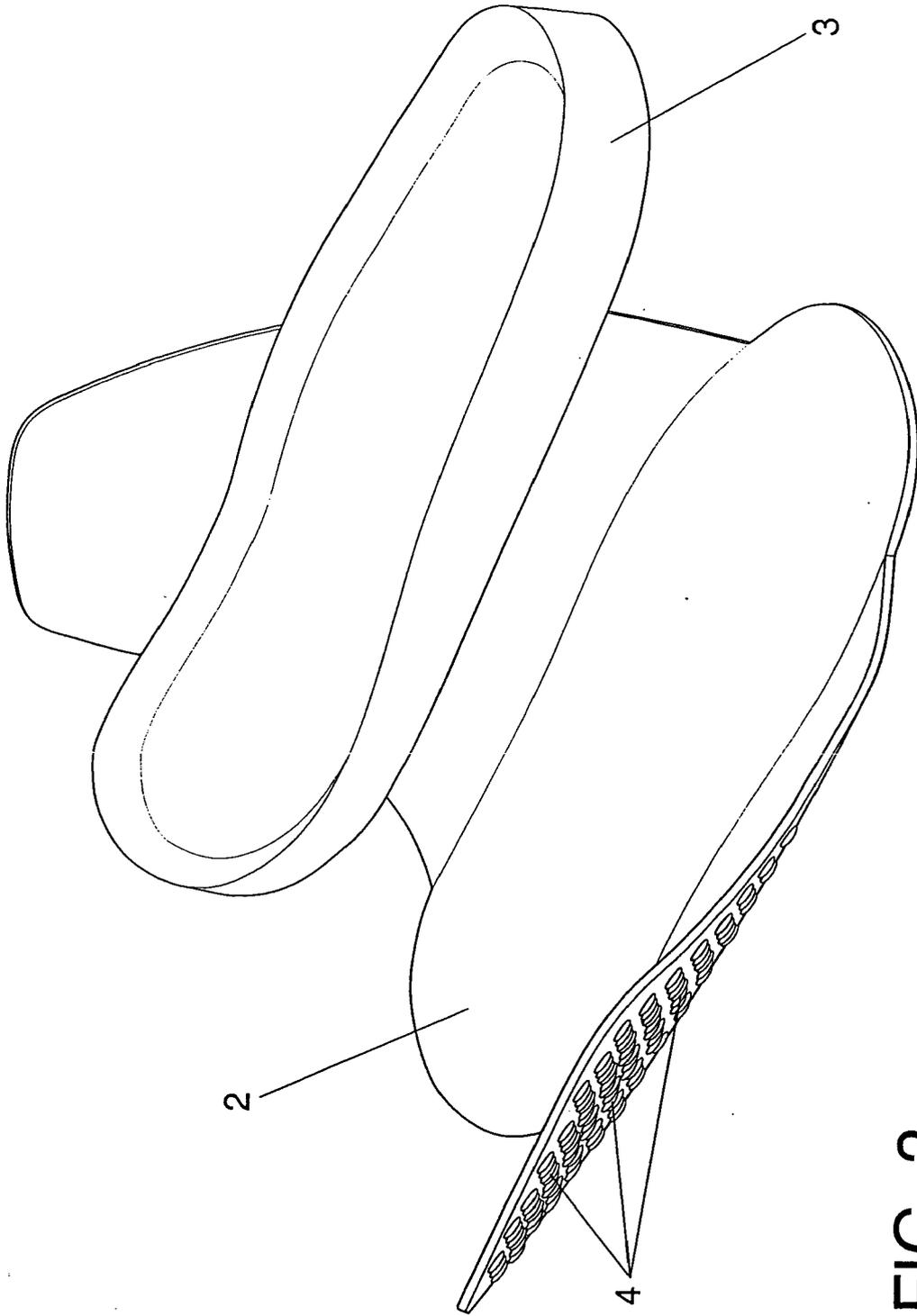


FIG. 3

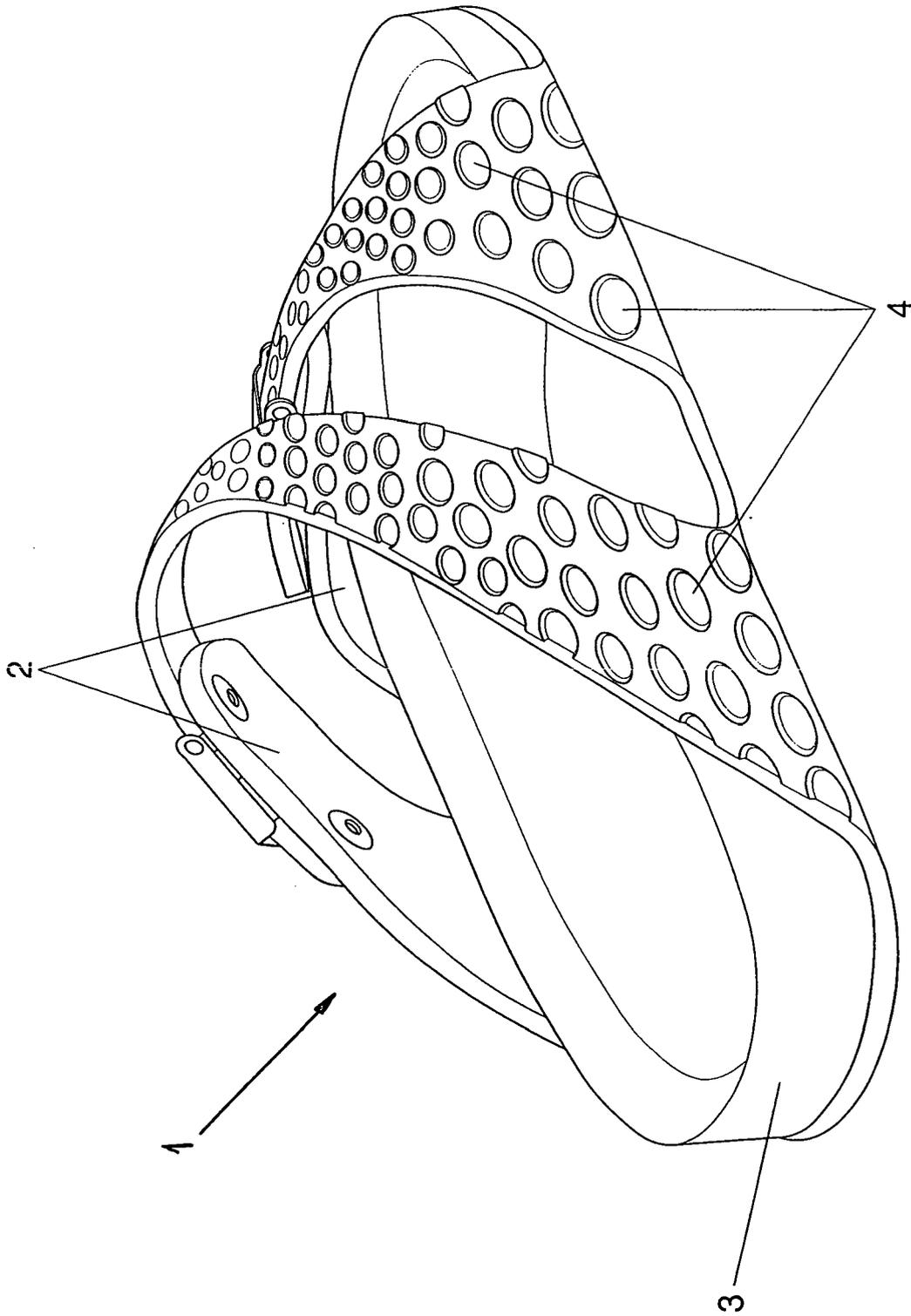


FIG. 4



EUROPEAN SEARCH REPORT

Application Number
EP 10 38 0150

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	GB 689 746 A (ERNEST E ROLLMAN; ANDREW SZERENYI) 1 April 1953 (1953-04-01) * column 2, lines 67-67, 69, 70, 85-94; claims 1,3,6; figures *	1-3	INV. A43B23/02 A43B3/10 A43B9/08
A	DE 73 06 393 U (ROTHFUSS ULRICH) 2 August 1973 (1973-08-02) * claims; figures *	1-3	
			TECHNICAL FIELDS SEARCHED (IPC)
			A43B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		18 May 2011	Claudel, Benoît
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 10 38 0150

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18-05-2011

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82