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(72) Inventors:

- **Diaz-Guerra Martin, Quintin**
28925 Alcorcon (ES)
- **Fernandez Martin, Gregorio Javier**
28980 Parla (ES)

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(71) Applicants:

- **Diaz-Guerra Martin, Quintin**
28925 Alcorcon (ES)
- **Fernandez Martin, Gregorio Javier**
28980 Parla (ES)

(74) Representative:

Del Campo Castel, Domingo
Puerto Rico, 8-B-1.o-B
28016 Madrid (ES)

(54) **IMPROVED FORM APPLICABLE TO THE PRESERVATION OF SHOES**

(57) Improved form applicable to the preservation of shoes, comprising a hollow body which has a front (2), a rear part (3) and a junction area configured like bellows (4). There is provided at the lower portion of the front part (2) of the form (1), a cylindrical recess (7) wherein a deodorant tablet (8) is inserted and fixed. Said tablet is comprised of aromatic products, germicides, bactericides, etc. The form (1) is coated with an external finish such as paint, lacquer or the like.

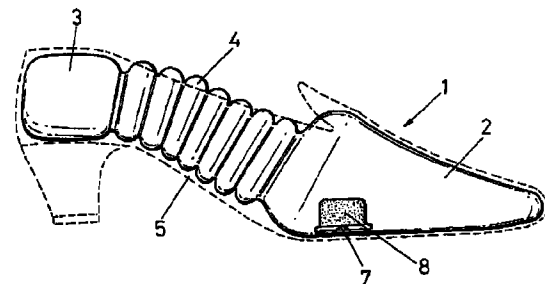


FIG.-1

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Description

BACKGROUND OF THE INVENCIÓN

The present specification refers to an improved last applicable to footwear maintenance, the evident purpose of which is to avoid the shoes to be deformed within - which it is incorporated, according to those anatomical characteristics allowing it to be fitted inside a shoe in which it is placed, this last being polyvalent, that is to say, allowing it to be placed in different size - shoes, and exhibiting, at the same time, the capacity of incorporating, at its inner zone, a smelling pastille, which configured as a solid, avoids aromatic effluvia, deodorants, germicides, bactericides, etc., to emerge, - which maintain a shoe apart from appropriate anatomical - conditions according to the performance of the last itself, under sanitary conditions, the last being coated, at its outside part, by an external paint, lacquered, or similar finishing.

FIELD OF THE INVENTION

This invention finds application in the industry devoted to the manufacture of auxiliary elements for footwear, to be exact in the footwear maintenance.

RELATED ART

There is, at present, a plurality of elements and devices, all them designed for providing a correct positioning of a shoe and its relative maintenance when the shoe is not used, said elements and devices being configured starting from cardboard uppers, rigid lasts made of a wooden or plastic material, lasts configured by - means of end bodies made of wood and plastic, which are united by means of a center metal band, etc.

In all cases, and independently of a better or worse performance thereof, both the lasts and the auxiliary elements used succeed in maintain a shoe to be adequately positioned, avoiding the wrinkle formation and deformation thereof, when the shoe is not used or worn.

Nevertheless, in all cases, even the maintenance of a footwear being contemplated starting from the above mentioned elements or lasts, with regard to its physical - configuration, there is not known the use of bactericide products, which, in cooperation with a last having - appropriate characteristics, acts in a harmonic way for footwear maintenance, both for maintaining a physical condition and a sanitary condition.

Obviously, for maintaining the footwear in a sanitary condition, until now, disinfectant powders are being deposited within the shoes, such as boron or any other adequate material, so maintaining the footwear in an adequate condition, in a greater or lesser measure, the performance of the maintaining of the footwear being powered by the last or a similar element itself.

An evident solution to the present problems in this -

field would be to rely on a last or similar element, which, while acting on the physical configuration and suitable maintenance of the shoes into which is incorporated, would be fitted with the faculty of allowing a smelling pastille or similar to be incorporated, the effluvia of which could maintain the footwear carrying the last, also under optimum conditions in relation to the hygiene.

Nevertheless, up to now nothing is known about the existence of a last fitted with the above mentioned - characteristics.

SUMMARY OF THE INVENTION

The improved last applicable to footwear maintenance as proposed by the invention, constitutes per se an antideformation method for the footwear incorporating it, and, at the same time, due to the incorporation into same of a smelling pastille, it can maintain the footwear carrying it under sanitary conditions.

In a most definite way, the improved last applicable to footwear maintenance, which is the object of the present invention, is constituted starting from an elongated part which is subdivided into three parts, including a front portion destined to be adjusted inside the shoe, acting on a side zone, leather tip and instep; an intermediate portion constituting a bellows bonded to the rear portion acting on the heel, so that owing to the performance of the bellows itself, increasing the length of the main body, it allows it to be adapted inside the shoe, in a simplified manner, since the flexibility of the center portion constituted by the bellows, makes possible, not only to be inserted, but, at the same time, the bellows body will produce or effect a push due to its elasticity so that the last will perfectly adapt itself to the shoe, avoiding the shoe to be deformed, upon getting the front part and the rear part to be fully adjusted to the inner anatomy of the shoe carrying the last.

The lower portion of the zone of the front part has a hollow deformation the function of which is to allow a smelling solid to be incorporated in, the effluvia of which will be received by the shoe carrying the last, the remainder of the last being a hollow body full of air, which is able to be adequately deformed under the bellows pressure, the zone where the smelling solid or pastille is incorporated being fitted with a small perimetric split at the mouth destined to facilitate the insertion of the piece carrying the pastille or smelling solid, resting adequately fixed.

BRIEF DESCRIPTION OF THE DRAWINGS

In order to complement this description and to aid to a better understanding of the characteristics of the invention, the appending drawings, which are a part of this specification, show, by way of illustrative and non-limiting example, the following figures:

Figure 1 shows a side elevational view the

improved last applicable to footwear maintenance, incorporated in a shoe itself, which is represented in outline.

Figure 2 shows a bottom view of the object illustrated in figure 1. 5

DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

From these figures, it can be seen that the improved last applicable to footwear maintenance (1) is constitutes starting from a main body, which determines, in its context, the existence of an airtight chamber, subdivided into three zones or parts perfectly differentiated, one of them being that located at the front part (2), - which is united to that placed at the rear part, by means of a bellows (4), constituting an intermediate length, which determines, at the same time, a flexion zone, and which facilitates the adaptation, both of the front part (2), and the rear part (3), in a shoe (5). 10 15 20

The bellows (4) performance determines the perfect - adaptation of both ends on the inner zone of the shoe (5), and, at the same time, it allows the dimension to be regulated according to the last and according to the flexibility of the own bellows, so permitting its adaptation both in greater or lesser size of shoe, due to - the operation of a bellows forming a center zone (4). 25

Apart from the performance of the last (1), inasmuch the maintenance of the shoe (5) itself in regard to its physical configuration, the last (1) presents, at the - lower part of the zone (2), a circular or a similar cavity (7), in which a solid or pastille is inserted (8), emitting deodorant, smelling, germicide, bactericide, etc. effluvia, which cooperate to the sanitary and hygienic maintenance of the footwear (5) itself. 30 35

The last, at the same time, has, at the lower part of the zone (2), or front part of this zone, interlaced reinforcements (6), constituted as longitudinal and cross - reinforcements subdivided into four lengths arising from an access opening to the cavity (7). 40

Claims

1. An improved last applicable to footwear maintenance, of those destined to avoid the deformation of shoes during their transit, marketing stages or non-use periods thereof, and of those constituted starting from a hollow plastic material body (1), which determines the existence of an airtight chamber with three differentiated lengths of zones: one front (2) with a complementary configuration to the inner part of the shoe; a rear part (3), adopting the configuration of the inner part of the heel of the shoe in question; and a center length of union (4), adopting the configuration of a flexible bellows which allows the body of the last to be shortened, relying on the characteristic that the total length of the last body 45 50 55

(1) is lightly superior to the length of the show in which it is incorporated, so that , once it has been coupled in the shoe, thru the shrinkage of said last (1), across the flexion zone (4) configured by the bellows, a total coupling of the last (1) inside the shoe (5) is obtained, **characterized** in that the lower part of the front zone (2) of the last (2) is provided with a cylindrical cavity (7), through which the placing and fixing of a deodorant solid or pastille is made (8), constituted by smelling, germicide, bactericide or similar products, the last being outwardly coated with an external finishing configured by paint, lacquer, etc.

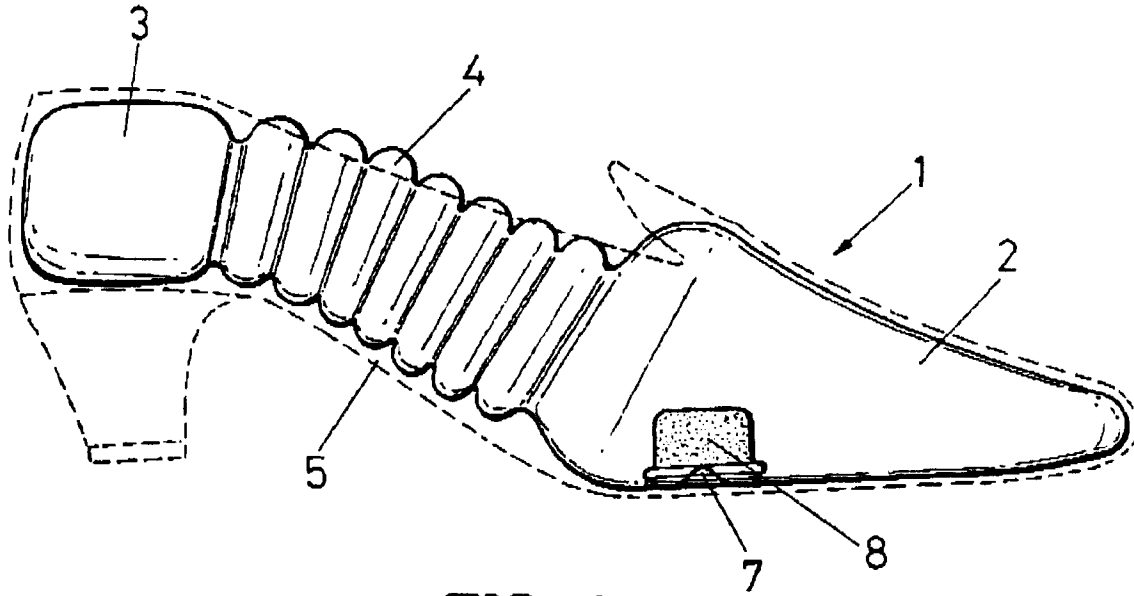


FIG.-1

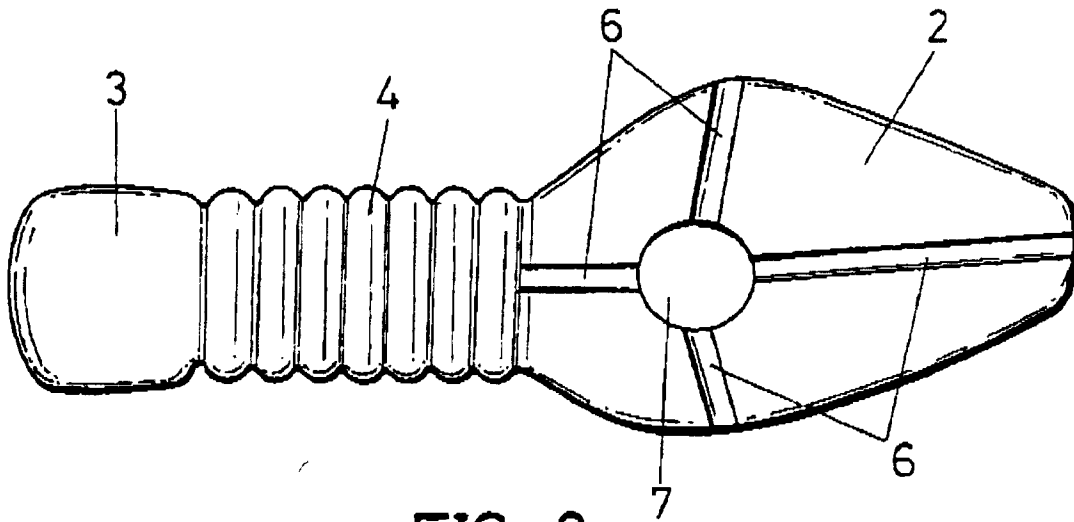


FIG.-2

INTERNATIONAL SEARCH REPORT

International application No. PCT/ES 96/00246
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A. CLASSIFICATION OF SUBJECT MATTER IPC ⁶ : A43D3/14 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC ⁶ : A43D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CIBEPAT, EPODOC, PAJ, WIPIL		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ES 2028527 A (PERALES MENA et al.) 1 July 1992 (01.07.92) the whole document	1
Y	ES 1022680 U (DIAZ-GUERRA MARTÍN) 1 May 1993 (01.05.93) claims, figures	1
Y	US 4261071 A (FORTE) 14 April 1981 (14.04.81) the whole document	1
A	DE 3316165 A (LUTZ) 8 November 1984 (08.11.84)	
A	US 3772722 A (GELLERT) 20 November 1973 (20.11.73)	
A	US 5367735 A (MOSIER et al.) 29 November 1994 (29.11.94)	
A	US 4774769 A (DOLLST) 4 October 1988 (04.10.88)	
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 14 April 1997 (14.04.97)		Date of mailing of the international search report 18.04.97
Name and mailing address of the ISA/ S.P.T.O. Facsimile No.		Authorized officer Telephone No.

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