

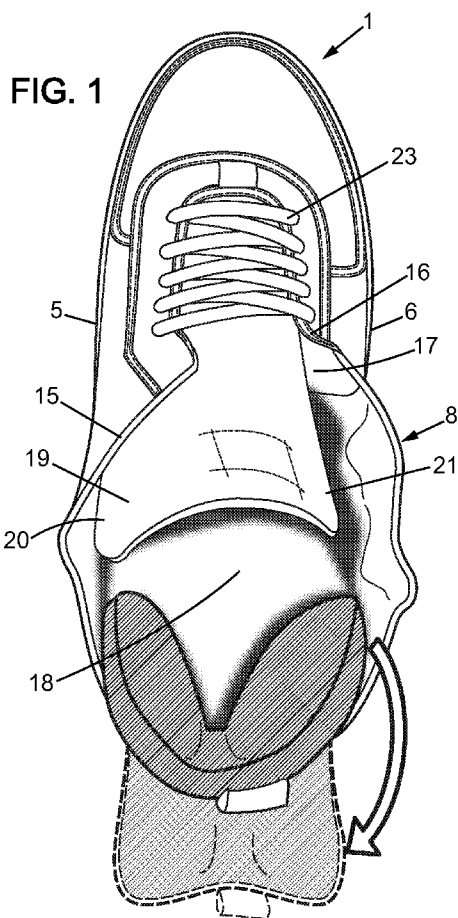


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[Continued on next page]

(54) Title: EASY-TO-WEAR LACE UP ARTICLE OF FOOTWEAR

(57) Abstract: The invention relates to an easy-to-wear lace up article of footwear comprising a forefoot opening intended to be secured by a lacing system and a second opening at the rear heel part of the shoe which is secured by a rear tongue and a rear lacing system.



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EASY-TO-WEAR LACE UP ARTICLE OF FOOTWEAR

BACKGROUND OF THE INVENTION

Field of the Invention

5 The present invention pertains to a novel construction of a lace up article of footwear, which enables the article of footwear to be slipped on the wearer's foot and held securely on the foot without the need for lacing it on the shoe. This provides the shoe with a unique and novel appearance of a lace up shoe that is worn without lacing.

Description of the Related Art

10 US7552547 describes a construction of an oxford type lace up athleisure shoe which enables the shoe to be slipped on the wearer's foot and held on the foot without the need from lacing on the shoe, by providing transversally on the tongue an elastic band.

15 However, if said construction can be used for low upper shoes, it will not be convenient for high upper shoes.

It thus still exists a need for an article of footwear which is aesthetically similar to lace shoe but which is easy-to-wear.

SUMMARY OF THE INVENTION

20 The invention relates to an easy-to-wear article of footwear having a double lacing system.

An article of footwear can have a low upper or a high upper and can be more or less flexible or more or less rigid. However, the wearer's foot has to be adequately held.

25 Various systems are used to hold adequately the foot in the articles of footwear, in particular laces or straps. Aesthetically, laces are very appreciated. However, tightening the shoes with laces is burdensome and sometimes difficult for children or teenagers, and time consuming for everybody.

The present invention found a new article of footwear comprising laces which do not need to be tightened when the wearer's foot enters or goes out.

30 The article of footwear according to the invention presents a double lacing system, a first one, as conventionally, connecting quarters close together on the front of the foot and a second one which is placed on the rear part of the article of footwear, which facilitates the sliding of the foot in the article of footwear. Said second lace system allows the foot's wearer to enter the foot in the article of footwear with no difficulty,
35 allowing a better fitting of the foot inside the shoe and participates to the aesthetics of the article of footwear.

The article of footwear according to the invention presents a tongue in the rear part of the shoe. Said tongue is affixed to the sole and to the rear part of the quarters on a

distance from the sole which corresponds about to the malleolus of the foot's wearer when placed in the article of footwear, ensuring that the foot is hold correctly in the shoe.

The article of footwear according to the invention is provided with a double lace system comprising laces presenting a resilience sufficient to allow the introduction of the
5 foot's wearer and to secure it when placed into the article of footwear.

In another aspect of the invention, the disposition of the lace holes on the rear part of the upper optimizes the opening of the ankle opening while allowing a satisfactory held of the wearer's foot.

Other characteristics and advantages of the invention will be better understood
10 from the description which follows, with reference to the accompanying drawings which describe and illustrate various embodiments of the invention.

In the following description of the various embodiments, reference is made to the accompanying drawings that depict illustrative arrangements in which the invention may be practiced.

15 Brief description of the drawings

- Figure 1 represents a top view of a shoe according to an embodiment of the invention;
- Figure 2 represents a 3/4 rear view of the shoe according to figure 1;
- Figure 3 represents a lateral view of the shoe according to figure 1.

20

DETAILED DESCRIPTION OF THE INVENTION:

The article of footwear according to the invention is a lace up article of footwear, which presents a novel construction. The novel construction of the article of footwear enables the shoe to be securely worn on the foot without lacing, as will be
25 explained. The novel construction is mainly the presence of a second tongue and of lace system which are both placed at the rear of the article of footwear.

Because much of the construction of the article of footwear of the invention is the same as that of a conventional lace up shoe, the conventional features of the construction will be described generally.

30 According to one embodiment of the invention, the article of footwear according to the invention comprising a forefoot opening intended to be secured by a lacing system and a second opening at the rear heel part of the shoe which is secured by a rear tongue and a rear lacing system. The presence of the rear tongue and rear lacing system allows an improved fit and an easy entry of the foot without unlacing.

35 The article of footwear according to the invention may be selected from the group comprising sneakers, oxford type athletic shoes, active footwear, athletically styled casual shoes, including aerobic dance, baseball/softball, basketball, cross training, hiking,

running, tennis, walking, golf, football and volleyball. Said shoes can be made in any material conventionally used for footwear articles, such as leather, canvas, suede.

According to another embodiment of the invention, the article of footwear comprises:

- 5 - a shoe sole having a length extending from the heel end to the toe end and a width extending from the left side to the right side;
- an upper secured to the shoe sole, except around the heel end;
- a rear tongue secured to the shoe sole around the heel end;
- the upper, the rear tongue and the shoe sole together enclosing an interior of the shoe;
- 10 - the upper and the rear tongue forming an ankle opening;
- the upper having a forefoot opening to the interior of the shoe, the upper having left and right sides that extend along opposite sides of the forefoot opening;
- a plurality of lacing openings arranged along the upper left side and arranged along the upper right side, and intended to be provided with a lace;
- 15 - the upper presenting upwardly a left free rear edge and a right free rear edge separated by a space having a width corresponding about to the width of the heel and enclosing the rear tongue;
- a plurality of lacing openings arranged along the left free rear edge of the upper and arranged along the right free rear edge of the upper and intended to be provided with a lace.
- 20

According to another embodiment of the invention, the rear lacing system comprises a resilient lace. The resiliency of the lace allows a sufficient extension of the collar shoe to slide the foot inside the shoe and allows securing the foot inside the foot when inserted. Preferably, the lace presents a resilience equivalent to multi-strands of elastic used for bungee cords, made with 3 to 6 bands of latex inside a polyester envelope, with a length from 22 to 32 inches. Examples of suitable laces are those marketed under the trademarks Lock Laces™ or Xtenex™. The article of footwear can be used in combination with a lacing system as described in US6,026,548 which is incorporated by reference.

25

30

The lacing system securing the forefoot opening may also comprise a resilient lace. The resiliency may be analogous to the resilience of the rear lace.

In another embodiment according to the invention, the plurality of lacing openings arranged along the left free rear edge of the upper and arranged along the right free rear edge of the upper and intended to be provided with a lace is provided on two different ranges, a first one near the free edges and the other one more inwardly.

35

Preferably, the first range follows the curve of the heel.

The lacing openings which are in the most inwardly range are preferably placed at a height from the shoe sole corresponding to the malleolus and/or to the ankle of the wearer when the article of wearfoot is worn.

5 The rear tongue can move independently of the upper, functioning like a conventional tongue.

According to a specific embodiment, the rear tongue is secured to the right and the left free rear edges of the upper, upwardly from the shoe sole to a height corresponding to the malleolus of the wearer when the article of footwear is worn.

10 In the preferred embodiment of the article of footwear shown in the drawing figures, the article of footwear is a pair of sneakers. However, it should be understood that the invention could be employed on other types of lace up articles of footwear that are desired to be worn without lacing and without altering the appearance of the lace up shoe.

15 In figures 1 to 3, a shoe 1 according to a preferred embodiment of the invention is represented. The shoe has a shoe sole 2 that is constructed of resilient materials that are typically employed in the constructions of the soles of athletic shoes. The sole 2 can be constructed with an outsole, a midsole, and an insert, as is typical. The shoe 1 has a length that extends from a rear heel end 3 to a front toe end 4 of the sole, and the shoe 1 has a width between a left side 5 and a right side 6 of the shoe sole 2.
20 A shoe upper 7 is secured to the shoe sole 2 extending upwardly from the shoe sole, as is conventional. The upper 7 is constructed of a flexible material, for example leather or fabric. The upper 7 extends upwardly, around the front part of the shoe sole top surface, from the right side of the heel (where it is called upper right side 8) around the toe end of the shoe sole (where it is called vamp 9), until the left side of the heel (where it is called
25 upper left side 10). Conversely to conventional shoe, the upper does not surround the heel end 3 of the shoe sole 2. The upper 7 presents upwardly a left free rear edge 11 and a right free rear edge 12 separated by a space having a width corresponding about to the width of the heel. A rear tongue 13 is affixed to this part of the shoe sole 2. Said tongue 13 extends upwardly, its width is such that it extends close to the right free rear edge 12
30 of the upper 7 from one side and close to the left free rear edge 11 of the upper 7 in the other side. Said rear tongue 13 can move independently of the upper 7, functioning like a conventional tongue.

35 The upper left portion 10, the upper right portion 8 and the rear tongue 13 extend upwardly from the shoe sole 2 and define an ankle opening 14 into the shoe interior. Said ankle opening 14 is also called the shoe collar.

The upper left side 10 extends upwardly from the shoe sole left side to an upper left side edge 15. The upper right side 8 extends upwardly from the shoe sole right side to an upper right side edge 16. As seen in the drawing figures, the upper left side edge 15

and the upper right side edge 16 extend forwardly from opposite sides of the upper collar edge 38 toward the front toe end 4 of the shoe sole. The length of the upper left side edge 15 and the upper right side edge 16 define a forefoot opening 17 in the shoe upper 7 that opens to the shoe interior 18.

5 The shoe upper 7 includes a vamp 9 positioned rearwardly of the toe end 4, and a tongue 19 that extends rearwardly from the vamp 9. The tongue 16 extends along the lengths of the upper left side 10 and the upper right side 8 to a distal end of the tongue 19. The tongue 19 has a width between a left side edge 20 and a right side edge 21 of the tongue. The length and width of the tongue position the tongue side edges 20, 21 beneath
10 the upper left side 10 and the upper right side 8 and extend the tongue over the forefoot opening 17 of the shoe 1.

A plurality of lacing openings 22 are provided on the upper left side 10 and the upper right side 8. These lacing openings 22 are intended to be occupied by a portion of the lacing 23 that closes the shoe upper 7 over the forefoot opening 17 of the shoe. The
15 lacing openings 22 can be for example D-rings or speed lacing hooks. However, in the preferred embodiment of the invention, the lacing openings 22 are provided by pluralities of eyelets or grommets on the upper left side 10 and the upper right side 8. The eyelets provide the desired lace up shoe appearance. The eyelet lacing openings 22 are arranged in lines along the upper left side edge 10 and along the upper right side edge 8. As seen
20 in the drawing figures, the lacing openings 22 extend substantially the entire lengths of the upper left side edge 10 and the upper right side edge 8 between the upper collar edge and the upper toe end.

As represented in figures 2 and 3, a plurality of lacing openings 24, 25 are also provided on the left free rear edge 11 of the upper and on the right free rear edge 12 of
25 the upper. Said plurality of lacing openings 24, 25 are provided on a double range. A first range is disposed near the free end and the other one more inwardly. The first range of openings 24 may follow the curve of the heel. The openings 25 which are disposed more inwardly are intended to be placed at the level of the malleolus 25a of the wearer's foot and at the level of the ankle 25b of the wearer. These lacing openings 24, 25 are intended
30 to be occupied by a portion of the lacing 26 that closes the shoe upper 7 around the heel, allowing to adjust the position of the foot in the shoe.

The presence of the rear tongue 13 enables the ankle opening 14 of the shoe 1 to be enlarged when inserting the foot into the shoe. The shoe wearer merely pulls rearwardly on the rear tongue 13 adjacent the tongue distal end to push it as represented
35 by the arrow on figure 1. The shoe wearer then slips its foot along the rear tongue 13 into the shoe interior 18 beneath the tongue 19. With the foot inserted in the shoe interior, the elastic lace 26 forces the rear tongue 13 against the wearer's ankle.

Of course, if elastic lace is also provided on the forefoot part of the shoe, when the wearer's foot is slipping inside the shoe, the tongue 19 is pushed upwardly and thanks to the elastic lace 23, when the foot is completely inserted inside the shoe, the tongue is forced against the foot.

5 Thus, the novel construction of the article of footwear provides a lace up article of footwear that is securely held to a shoe wearer's foot without the need for lacing, and provides the comfort and the desired appearance of a lace up article of footwear.

10 Although the article of footwear of the invention has been described above by referring to a particular embodiment, it should be understood that modifications and variations could be made to said article without departing from the intended scope of protection provided by the following claims.

CLAIMS

1. An easy-to-wear lace up article of footwear (1) comprising a forefoot opening (17) intended to be secured by a lacing system (23) and a second opening at the rear heel part of the shoe which is secured by a rear tongue (13) and a rear lacing system (26).
5

2. The article of footwear (1) according to claim 1, which is selected from the group comprising lace up shoes, sneakers, oxford type athletic shoe, active footwear, athletically styled casual shoes, including aerobic dance, baseball/softball, basketball, cross training, hiking, running, tennis, walking, golf, football and volleyball
10

3. The article of footwear (1) according to claim 1 or 2, which comprises:

- a shoe sole (2) having a length extending from the heel end (3) to the toe end (4) and a width extending from the left side (5) to the right side (6);
- 15 - an upper (7) secured to the shoe sole (2), except around the heel end (3);
- a rear tongue (13) secured to the shoe sole (2) around the heel end (3);
- the upper (7), the rear tongue (13) and the shoe sole (2) together enclosing an interior (18) of the shoe;
- the upper (7) and the rear tongue (13) forming an ankle opening (14);
- 20 - the upper (7) having a forefoot opening (17) to the interior (18) of the shoe (1), the upper (7) having left and right sides (8, 10) that extend along opposite sides of the forefoot opening (17);
- a plurality of lacing openings (22) arranged along the upper left side (10) and arranged along the upper right side (8) and intended to be provided with a lace (23),
- 25 - the upper (7) presenting upwardly a left free rear edge (11) and a right free rear edge (12) separated by a space having a width corresponding about to the width of the heel and enclosing the rear tongue (13),
- a plurality of lacing openings (24, 25) arranged along the left free rear edge (11) of the upper and arranged along the right free rear edge (12) of the upper and intended to be provided with a lace (26).
30

4. The article of footwear (1) according to claim 3, wherein the rear tongue (13) is secured to the right and the left free rear edges (8, 10) of the upper, upwardly from the shoe sole (2) to a height corresponding to the malleolus of the wearer when the article of footwear is worn.
35

5. The article of footwear (1) according to anyone of claims 1 to 4, wherein the rear lacing system (26) comprises a resilient lace.

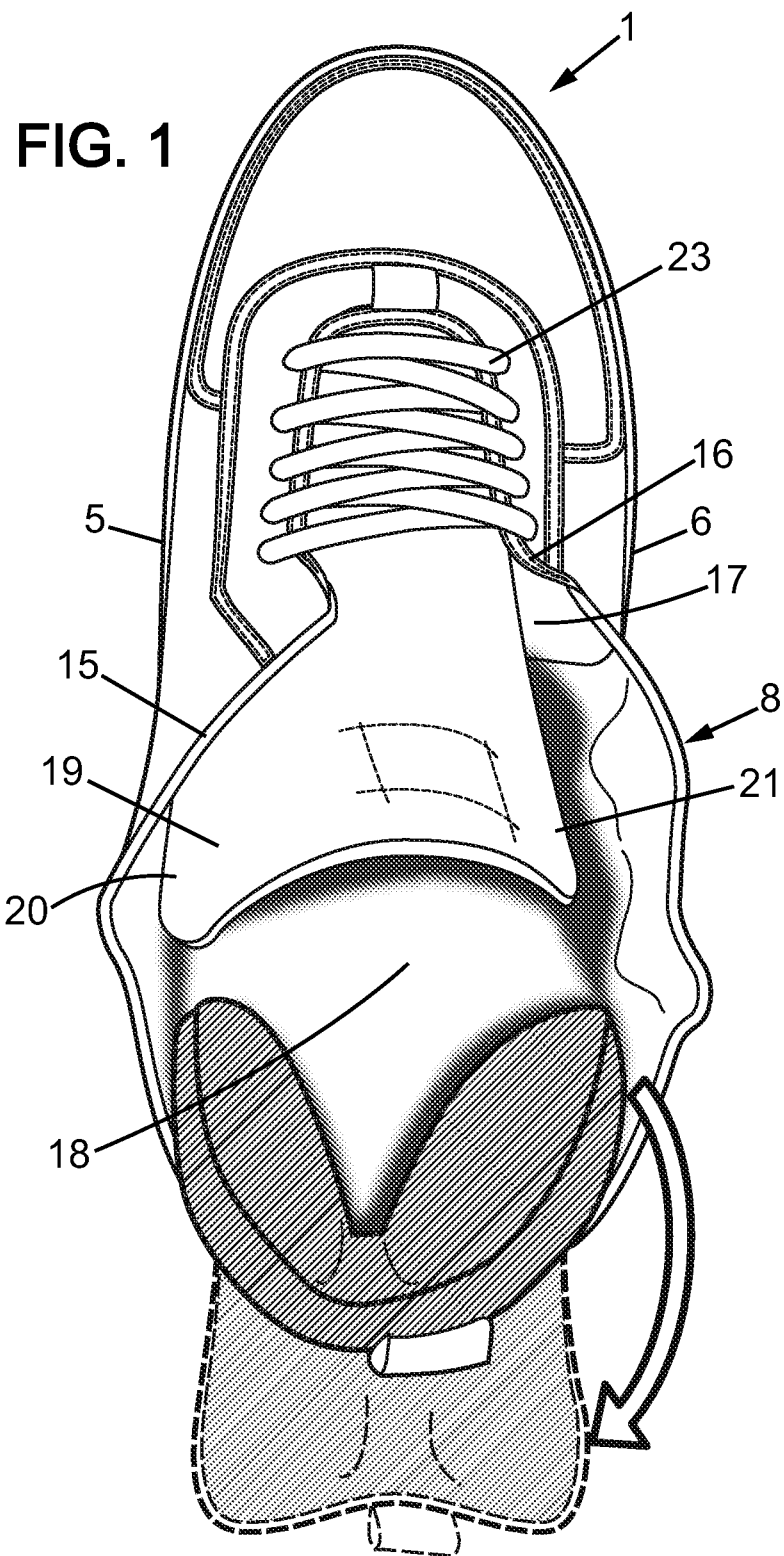
6. The article of footwear (1) according to anyone of claims 1 or 5, wherein the
5 lacing system (23) securing the forefoot opening (17) comprises a resilient lace.

7. The article of footwear according to claim 5 or 6, wherein the resiliency of the lace as measured by its Young's modulus is equivalent to multi-strands of elastic used for bungee cords, made with 3 to 6 bands of latex inside a polyester envelope, with a length
10 from 22 to 32 inches.

8. The article of footwear (1) according to anyone of claims 3 to 7, the plurality of lacing openings (24, 25) arranged along the left free rear edge (11) of the upper and arranged along the right free rear edge (12) of the upper and intended to be provided with a lace (26) is provided on two different ranges, a first one near the free edges and the
15 other one more inwardly.

9. The article of footwear (1) according to claim 8, wherein the first range of lacing openings (24) follows the curve of the heel.
20

10. The article of footwear (1) according to claim 8 or 9, wherein the lacing openings (25) of the most inwardly range are placed at a height from the shoe sole corresponding to the malleolus and/or to the ankle of the wearer when the article of footwear (1) is worn.



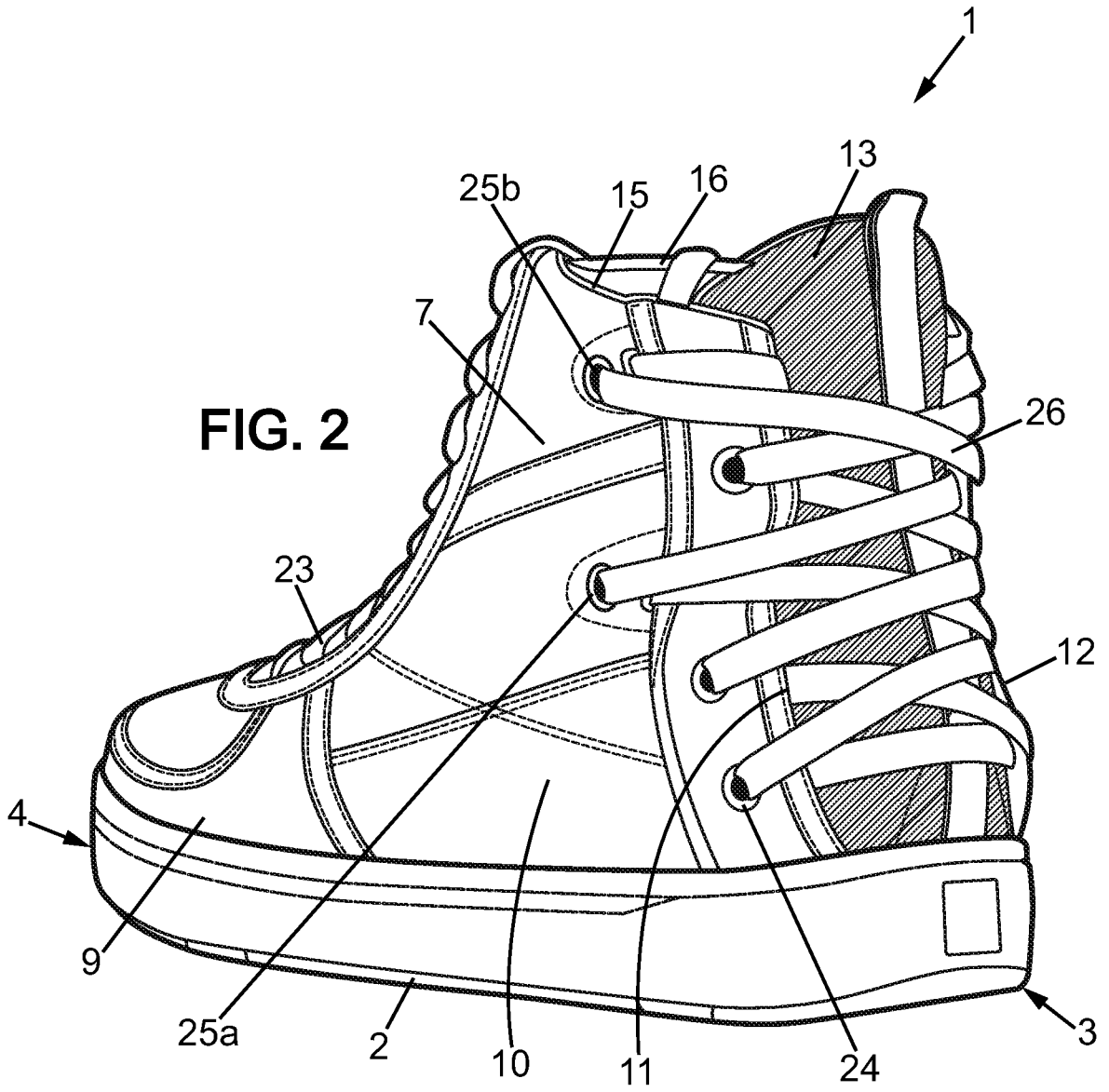
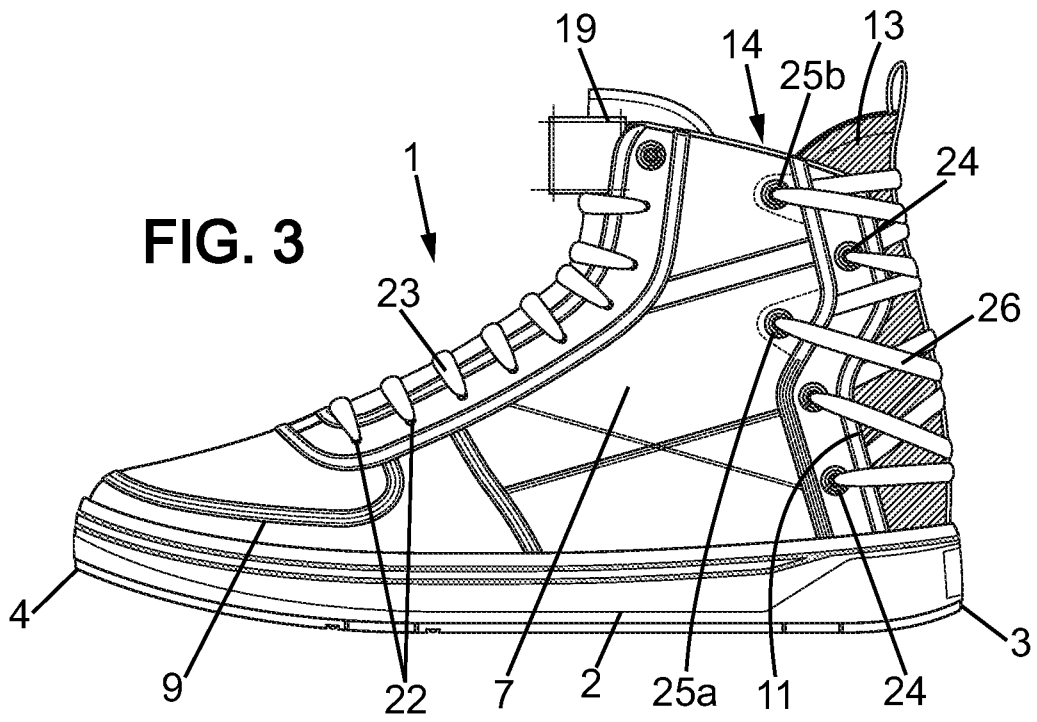


FIG. 2



INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2009/063687

A. CLASSIFICATION OF SUBJECT MATTER

INV. A43C1/00
ADD.

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)
A43C

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 420 239 A (NATHAN HACK) 6 May 1947 (1947-05-06) column 2, lines 1-55; figure 1 -----	1-10
X	FR 1 126 589 A (LE TRAPPEUR) 26 November 1956 (1956-11-26) claims; figures -----	1-10

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents :
- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> | <p>"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</p> <p>"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</p> <p>"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.</p> <p>"&" document member of the same patent family</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date of the actual completion of the international search 9 September 2010	Date of mailing of the international search report 17/09/2010
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Claudel, Benoît
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2009/063687

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2420239	A	06-05-1947	NONE
FR 1126589	A	26-11-1956	NONE



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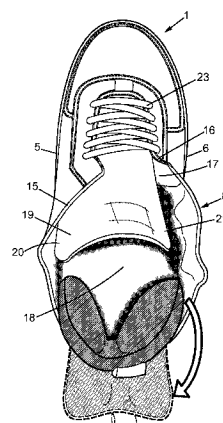
权利要求书 1 页 说明书 4 页 附图 3 页

(54) 发明名称

便于穿着的系带鞋类物品

(57) 摘要

本发明涉及一种易于穿着的系带鞋类物品，其包括能够通过系带系统紧固的前脚开口和在鞋的后部的脚后跟部分的第二开口，所述第二开口通过后鞋舌和后系带系统紧固。



1. 一种易于穿着的系带鞋类物品 (1), 其包括能够通过系带系统 (23) 紧固的前脚开口 (17) 和在鞋的后部的脚后跟部分处的第二开口, 所述第二开口通过后鞋舌 (13) 和后系带系统 (26) 紧固。

2. 按照权利要求 1 所述的鞋类物品 (1), 所述鞋类物品是从下列一组鞋类物品中进行选择的, 该组包括: 系带鞋、运动鞋、牛津类运动鞋、活动鞋类、运动类休闲鞋, 包括有氧舞蹈、棒球 / 垒球、篮球、混合训练、登山、跑步、网球、徒步、高尔夫球、足球和排球。

3. 按照权利要求 1 或 2 所述的鞋类物品 (1), 所述鞋类物品包括:

- 鞋底 (2), 其具有从脚后跟端部 (3) 延伸到脚趾端部 (4) 的长度和从左侧 (5) 延伸到右侧 (6) 的宽度;

- 鞋帮 (7), 其紧固到除了脚后跟端部 (3) 周围的鞋底 (2);

- 后鞋舌 (13), 其紧固至脚后跟端部 (3) 周围的鞋底 (2);

- 所述鞋帮 (7)、后鞋舌 (13) 和鞋底 (2) 一起围成鞋的内部 (18);

- 所述鞋帮 (7) 和后鞋舌 (13) 形成踝关节开口 (14);

- 所述鞋帮 (7) 具有通至鞋 (1) 的内部 (18) 的前脚开口 (17), 所述鞋帮 (7) 具有沿着所述前脚开口 (17) 的两侧延伸的左侧 (10) 和右侧 (8);

- 多个鞋带孔 (22), 其沿鞋帮左侧 (10) 布置, 并沿鞋帮右侧 (8) 布置, 并被用于设置鞋带 (23);

- 所述鞋帮 (7) 向上具有左侧自由后边缘 (11) 以及右侧自由后边缘 (12), 所述左侧自由后边缘以及右侧自由后边缘被宽度大致与脚后跟宽度相对应的间隙隔开, 并且所述鞋帮围住后鞋舌 (13);

- 多个鞋带孔 (24、25), 其沿着鞋帮的左侧自由后边缘 (11) 以及右侧自由后边缘 (12) 设置, 并且用于设置鞋带 (26)。

4. 按照权利要求 3 所述的鞋类物品 (1), 其特征在于, 所述后鞋舌 (3) 被紧固在鞋帮的右侧和左侧自由后边缘 (11、12) 上, 从鞋底 (2) 向上至与穿上鞋类物品时穿着者的脚踝相对应的高度。

5. 按照权利要求 1 至 4 中任意一项所述的鞋类物品 (1), 其特征在于, 所述后系带系统 (26) 包括弹性鞋带。

6. 按照权利要求 1 或 5 中任意一项所述的鞋类物品 (1), 其特征在于, 所述紧固前脚开口 (17) 的系带系统 (23) 包括弹性鞋带。

7. 按照权利要求 5 或 6 所述的鞋类物品 (1), 其特征在于, 鞋带的通过其杨氏模量测量的弹性与松紧绳的多股弹性相当, 其以 3 至 6 条在聚酯包膜内部的橡胶制成, 长度为 22 至 32 英寸。

8. 按照权利要求 3 至 7 中任意一项所述的鞋类物品 (1), 其特征在于, 沿着鞋帮的左侧自由后边缘 (11) 设置和沿着鞋帮的右侧自由后边缘 (12) 设置并用于设置鞋带 (26) 的多个鞋带孔 (24、25) 被设置在不同的两列上, 第一列靠近自由边缘, 另一列更靠内。

9. 按照权利要求 8 所述的鞋类物品 (1), 其特征在于, 所述鞋带孔 (24) 的第一列顺着脚后跟的曲线。

10. 按照权利要求 8 或 9 所述的鞋类物品 (1), 其特征在于, 在最靠内的一列中的鞋带孔 (25) 布置在从鞋底开始与穿上鞋类物品 (1) 时穿着者的脚踝和 / 或踝关节相对应的高度上。

便于穿着的系带鞋类物品

技术领域

[0001] 本发明涉及系带鞋类物品的一种全新的结构,这种结构使得这种鞋类物品能够滑到穿着者的脚上,并且能够被可靠地保持在脚上而无需在鞋上系鞋带。这为鞋提供了一种穿着时无需系带的系带鞋的独特的、新颖的外观。

背景技术

[0002] US7552547 描述了一种牛津式系带运动休闲鞋的结构,这种结构使得鞋能够滑到穿着者的脚上,并且通过在鞋舌上横向地设置弹性带,使得鞋能够保持在脚上而无需在鞋上系带。

[0003] 然而,如果所述结构可以被用于低帮的鞋,则不能方便地用于高帮的鞋。

[0004] 因此,存在对于在外观上类似束带鞋但易于穿着的鞋类物品的需要。

发明内容

[0005] 本发明涉及一种具有双系带系统的易穿着鞋类物品。

[0006] 鞋类物品可以具有低帮或高帮,并且可以或多或少是柔性的或者或多或少是刚性的。然而,穿着者的脚必须被充分地保持。

[0007] 使用多种系统(特别是鞋带或绑带)将脚充分地保持在鞋类物品中。在审美的角度上,鞋带是非常适宜的。然而,用鞋带束紧鞋非常繁琐,并且有时对于儿童和少年是很困难的,并且对于每个人来说都会花费时间。

[0008] 本发明提供了一种新的鞋类物品,这种鞋类物品包括当穿着者的脚进入或离开时无需系紧的鞋带。

[0009] 依据本发明的鞋类物品具有双系带系统,即第一系带系统和第二系带系统,第一系带系统如常规的那样在脚的前面将鞋腰紧密地连接到一起,而第二系带系统布置在鞋类物品的后部,使脚易于滑入到鞋类物品中。所述第二系带系统使得穿着者能够毫无困难地将脚放入到鞋类物品中,使得脚能够更好地配合在鞋中并且还使鞋类物品更美观。

[0010] 依据本发明的鞋类物品具有在鞋后部的鞋舌。所述鞋舌粘接在鞋底上,并且在与鞋底相距一个与当穿着者把脚放入到鞋类物品中时的脚踝大致相应的距离处被粘接到鞋腰的邻近部分,以确保脚被正确地保持在鞋中。

[0011] 依据本发明的鞋类物品设有双系带系统,所述双系带系统包括鞋带,该鞋带的弹性足以允许穿着者的脚进入并且在将脚放置在鞋类物品中时将其紧固。

[0012] 根据本发明的另一方面,将鞋带孔布置在鞋帮后部使踝关节开口的敞开得以优化,同时能够令人满意地保持住穿着者的脚。

[0013] 参照描绘并示出本发明的多种实施例的附图,从下面的描述中,能够更好地理解本发明的其他特征和优点。

附图说明

[0014] 在下面对多个实施例的描述中,附图标记被用于描绘本发明可以实现的示例性设置方式的附图中。

[0015] 图 1 示出了根据本发明的一个实施例的鞋的俯视图;

[0016] 图 2 示出了根据图 1 的鞋的 3/4 后视图;

[0017] 图 3 示出了根据图 1 的鞋的侧视图。

具体实施方式

[0018] 根据本发明的鞋类物品是具有新结构的系带鞋类物品。鞋类物品的这种新结构使得鞋可以如将要描述的那样坚固地穿在脚上而无需系带。新结构主要表现在第二鞋舌和系带系统,这两者都被布置在鞋类物品的后部。

[0019] 由于本发明的鞋类物品的大部分结构都与常规的系带鞋相同,因此将大致地对结构的常规特征进行描述。

[0020] 根据本发明的一种实施例,根据本发明的鞋类物品包括用于由系带系统坚固的前脚开口和在鞋的后跟处的第二开口,该第二开口由后鞋舌和后系带系统坚固。后鞋舌和后系带系统的存在使得在没有解开鞋带的情况下就能够更加合脚并使脚容易进入。

[0021] 根据本发明的鞋类物品可以从下列一组鞋类物品中进行选择,包括:运动鞋、牛津类运动鞋、活动鞋类、运动类休闲鞋,包括有氧舞蹈、棒球/垒球、篮球、混合训练、登山、跑步、网球、徒步、高尔夫球、足球和排球。所述鞋可以由通常用于鞋类物品的任何材料制成,例如皮革、帆布、麂皮。

[0022] 根据本发明的另一种实施例,鞋类物品包括:

[0023] 鞋底,其具有从脚后跟端部延伸到脚趾端部的长度和从左侧延伸到右侧的宽度;

[0024] 坚固到除了脚后跟端部周围的鞋底的鞋帮;

[0025] 后鞋舌,其坚固至脚后跟端部周围的鞋底;

[0026] 鞋帮、后鞋舌和鞋底一起围成鞋的内部;

[0027] 鞋帮和后鞋舌形成踝关节开口;

[0028] 鞋帮具有通至鞋的内部的前脚开口,鞋帮具有沿着前脚开口的相对两侧延伸的左、右两侧;

[0029] 多个鞋带孔,其沿鞋帮左侧布置,并沿鞋帮右侧布置,并被用于设置鞋带;

[0030] 鞋帮向上具有左侧自由后边缘和右侧自由后边缘,所述左侧自由后边缘以及右侧自由后边缘被宽度大约与脚后跟宽度相对应的间隙隔开,并且鞋帮围住后鞋舌;

[0031] 多个鞋带孔,其沿着鞋帮的左侧自由后边缘以及沿着鞋帮的右侧自由后边缘设置,用于设置鞋带。

[0032] 根据本发明的另一实施例,后系带系统包括弹性鞋带。鞋带的弹性使得鞋口能够进行足够的展开使得脚能够滑入到鞋内部,并且在脚插入后能后将脚坚固在鞋内部。优选的是,该鞋带具有与松紧绳的多股弹性相当的弹性,其以 3 至 6 条在聚酯包膜内部的橡胶制成,长度为 22 至 32 英寸。适用的鞋带的例子有:市场上销售的商标为 Lock Laces™ 或 Xtenex™ 的鞋带。鞋类物品可以如在通过引用合并的 US6,026,548 中所描述的那样与系带系统相结合地使用。

[0033] 坚固前脚开口的系带系统也可以包括弹性鞋带。其弹力可以与后鞋带的弹性类

似。

[0034] 在根据本发明的另一实施例中,沿着鞋帮的左侧自由后边缘布置和沿着鞋帮的右侧自由后边缘布置有用于设置鞋带的多个鞋带孔,所述鞋带孔被设置在不同的两列(range)上,第一列靠近自由边缘,另一列更靠内。

[0035] 优选的是,第一列顺着脚后跟的形状。

[0036] 在最靠内的一列中的鞋带孔优选地布置在从鞋底开始与穿上鞋类物品时穿着者的脚踝和/或踝关节相对应的高度上。

[0037] 后鞋舌可以独立于鞋帮运动,像通常的鞋舌一样起作用。

[0038] 根据一种特别的实施例,后鞋舌被紧固在鞋帮的右侧和左侧自由后边缘上,从鞋底向上至与穿上鞋类物品时穿着者的脚踝相对应的高度。

[0039] 在附图所示的鞋类物品的一种优选的实施例中,鞋类物品是一双运动鞋。然而,可以理解的是,本发明可以应用在希望穿着时无需系带且不会改变系带鞋外观的其他类型的系带鞋类物品上。

[0040] 在图 1 至图 3 中,示出了根据本发明的一种优选的实施例的鞋 1。鞋具有鞋底 2,该鞋底由通常用在运动鞋的鞋底结构中的弹性材料制成。鞋底 2 可以如典型的那样,被构造为具有外底、中底和嵌入物。鞋 1 具有从鞋底的后脚后跟端部 3 延伸到前脚趾端部 4 的长度,以及鞋 1 具有在鞋底 2 的左侧 5 和右侧 6 之间的宽度。鞋的鞋帮 7 如常规的那样,被紧固在鞋底 2 上,从鞋底向上延伸。鞋帮 7 由柔性材料制成,例如皮革或织物。鞋帮 7 绕鞋的鞋底上表面的前部,从脚后跟的右侧(被称为鞋帮右侧 8)绕鞋底的脚趾端部(被称为鞋面 9),直到脚后跟的左侧(被称为鞋帮左侧 10)向上延伸。与常规的鞋不同的是,鞋帮并不绕过鞋底 2 的脚后跟端部 3。鞋帮 7 向上具有被空隙间隔开的左侧自由后边缘 11 和右侧自由后边缘 12,这个空隙具有与脚后跟的宽度相对应的宽度。后鞋舌 13 被粘接在鞋底 2 的这个部分。所述鞋舌 13 向上延伸,其宽度使得其在一侧延伸靠近鞋帮 7 的右侧自由后边缘 12,在另一侧延伸靠近鞋帮 7 的左侧自由后边缘 11。所述后鞋舌 13 可以独立于鞋帮 7 运动,像通常的鞋舌一样起作用。

[0041] 鞋帮左部 10、鞋帮右部 8 和后鞋舌 13 从鞋底 2 向上延伸,限定了通到鞋的内部的踝关节开口 14。所述踝关节开口 14 也被称为鞋口。

[0042] 鞋帮左侧 10 从鞋底左侧向上延伸到鞋帮左侧边缘 15。鞋帮右侧 8 从鞋底右侧向上延伸到鞋帮右侧边缘 16。如在附图中可见,鞋帮左侧边缘 15 和鞋帮右侧边缘 16 从鞋帮开口边缘 38 的相对两侧向前朝鞋底的前脚趾端部 4 延伸。鞋帮左侧边缘 15 和鞋帮右侧边缘 16 的长度限定了鞋的鞋帮 7 中的朝鞋的内部 18 开口的前脚开口 17。

[0043] 鞋的鞋帮 7 包括布置在脚趾端部 4 后方的鞋面 9,以及从鞋面 9 向后延伸的鞋舌 19。鞋舌 16 沿鞋帮左侧 10 和鞋帮右侧 8 的长度延伸至鞋舌 19 的远端。鞋舌 19 具有在鞋舌的左侧边缘 20 和右侧边缘 21 之间的宽度。鞋舌的长度和宽度将鞋舌侧边缘 20、21 定位鞋帮左侧 10 和鞋帮右侧 8 的下面,并且使鞋舌在鞋 1 的前脚开口 17 上延伸。

[0044] 在鞋帮左侧 10 和鞋帮右侧 8 上设有多个鞋带孔 22。这些鞋带孔 22 被在鞋的前脚开口 17 上封闭鞋的鞋帮 7 的鞋带 23 的一部分占据。这些鞋带孔 22 可以例如是 D 形环或快速鞋带挂钩。然而,在本发明的优选的实施例中,鞋带孔 22 是由多个在鞋帮左侧 10 和鞋帮右侧 8 上的多个孔眼或锁环提供的。孔眼提供了所希望的系带鞋外观。孔眼鞋带孔 22

沿鞋帮左侧边缘 10 和沿鞋帮右侧边缘 8 线型地布置。如在附图中所见,鞋带孔 22 基本上延伸了鞋帮左侧边缘 10 和鞋帮右侧边缘 8 在鞋帮口边缘和鞋帮脚趾端部之间的整个长度。

[0045] 如在图 2 和图 3 中所示,在鞋帮的左侧自由后边缘 11 和鞋帮的右侧自由后边缘 12 上也设有多个鞋带开口 24、25。所述多个鞋带孔 24、25 设置在双列上。第一列被布置在自由端部旁边,而另一列更靠内。第一列开口 24 可以顺着脚后跟的曲线。布置得更靠内的开口 25 被设置在穿着者的脚的内踝 25a 的水平高度上,以及在穿着者的踝关节 25b 的水平高度上。这些鞋带孔 24、25 被绕脚后跟封闭鞋帮 7 的鞋带 26 的一部分占据,允许对脚在鞋中的位置进行调整。

[0046] 后鞋舌 13 的存在使得当将脚插入到鞋中时能够将鞋 1 的踝关节开口 14 扩大。穿着者仅需在后鞋舌 13 上贴近鞋舌远端向后拉以如图 1 的箭头所示地推动该鞋舌。随后,穿着者将其脚沿着后鞋舌 13 滑到位于鞋舌 19 下方的鞋内部 18 中。当脚插入到鞋内部时,弹性鞋带 26 迫使后鞋舌 13 贴靠穿着者的踝关节。

[0047] 当然,如果弹性鞋带也被设置在鞋的前脚部分上的话,当穿着者的脚滑入鞋中时,鞋舌 19 被向上推动,并且由于弹性鞋带 23,当脚完全插入到鞋的内部中时,鞋舌被压靠在脚上。

[0048] 因此,此鞋类物品的全新结构提供了一种紧固地保持在穿鞋者的脚上而无需系带的系带鞋类物品,并且还提供了系带鞋类物品的舒适性和所希望的外观。

[0049] 虽然通过参考一个特别的实施例在上面对本发明的鞋类物品进行了描述,但应该理解的是,在不脱离由下列权利要求所提供的限定保护范围的情况下可以对所述鞋类物品进行修改和变化。

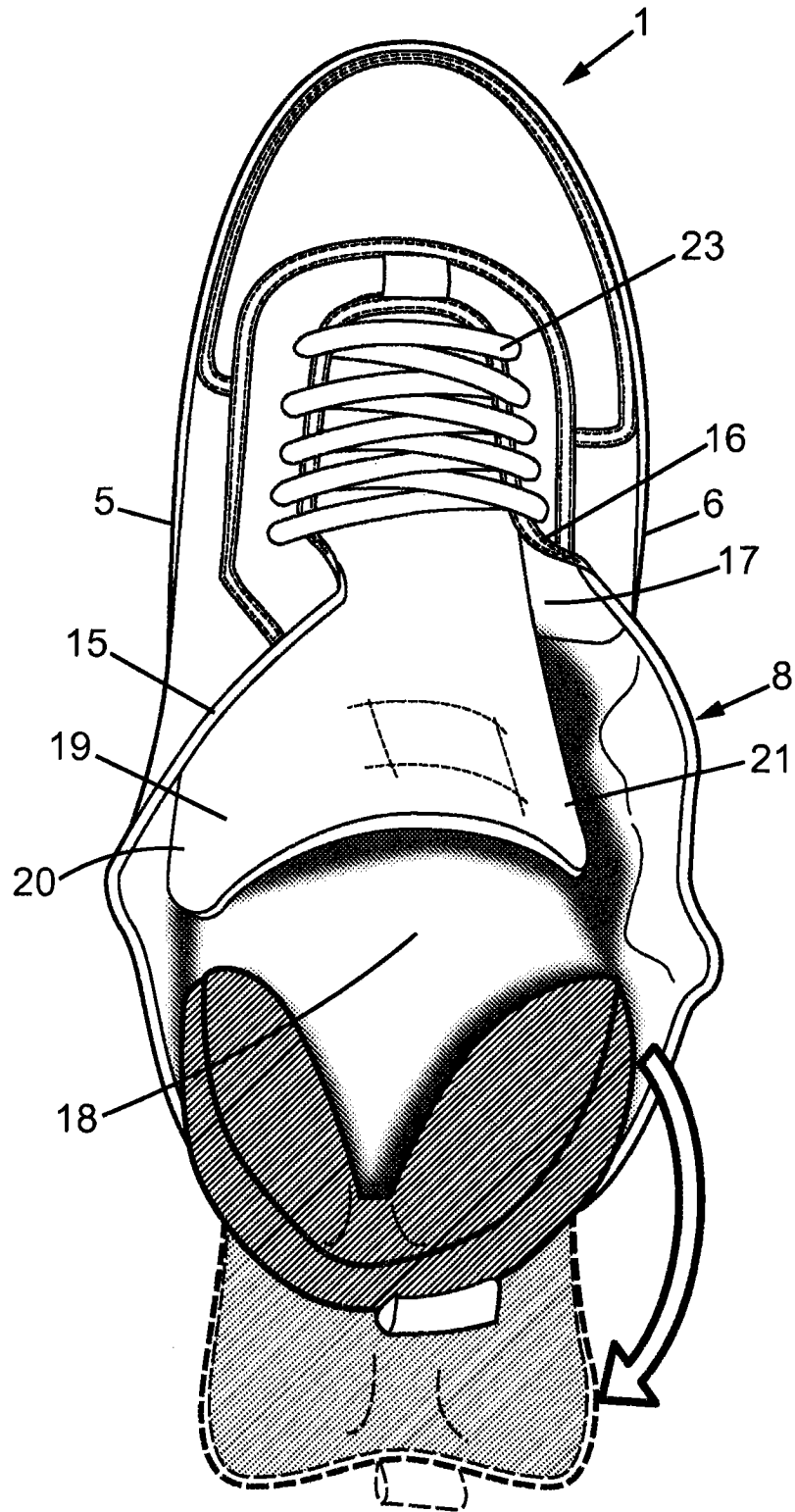


图 1

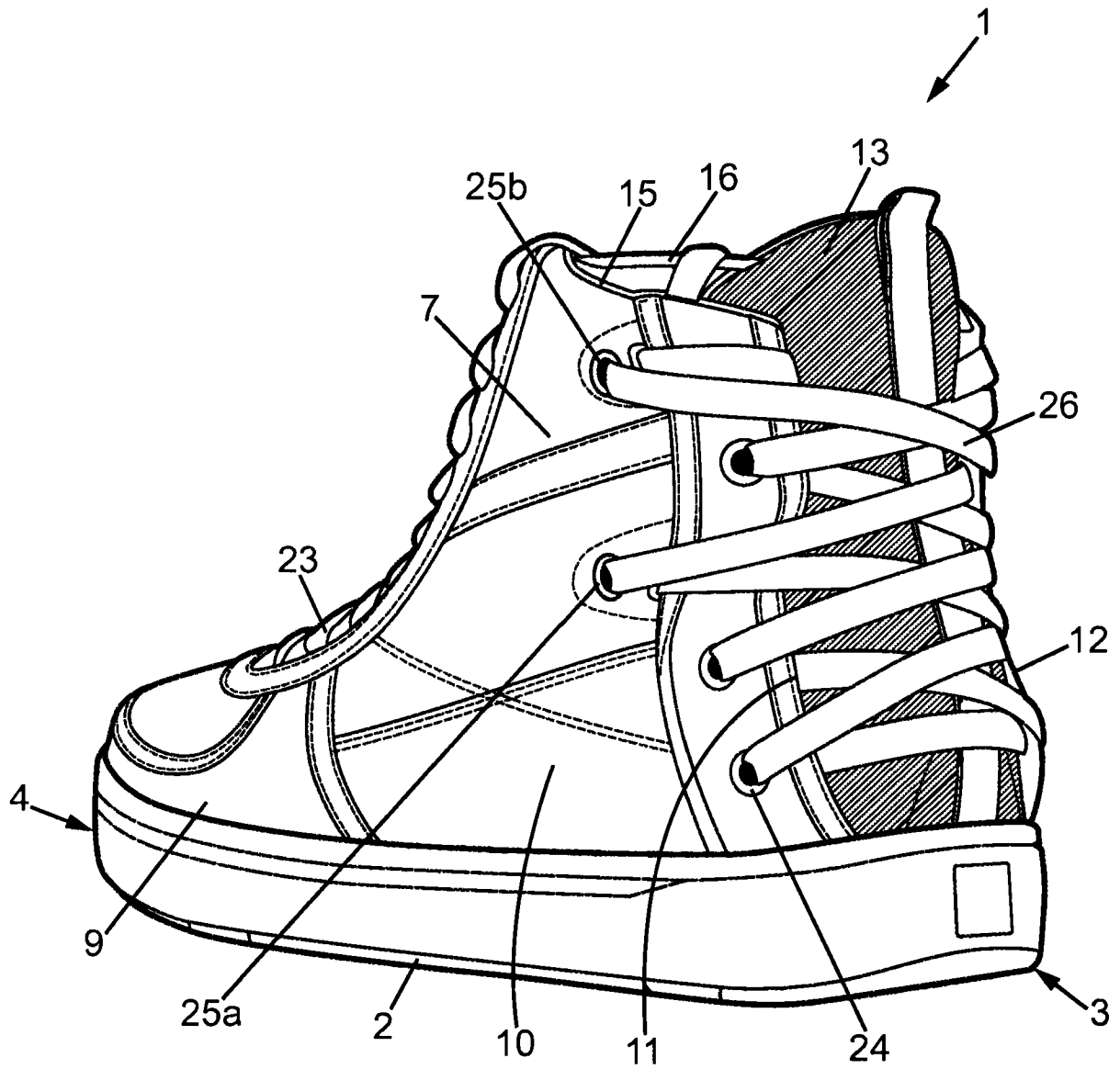


图 2

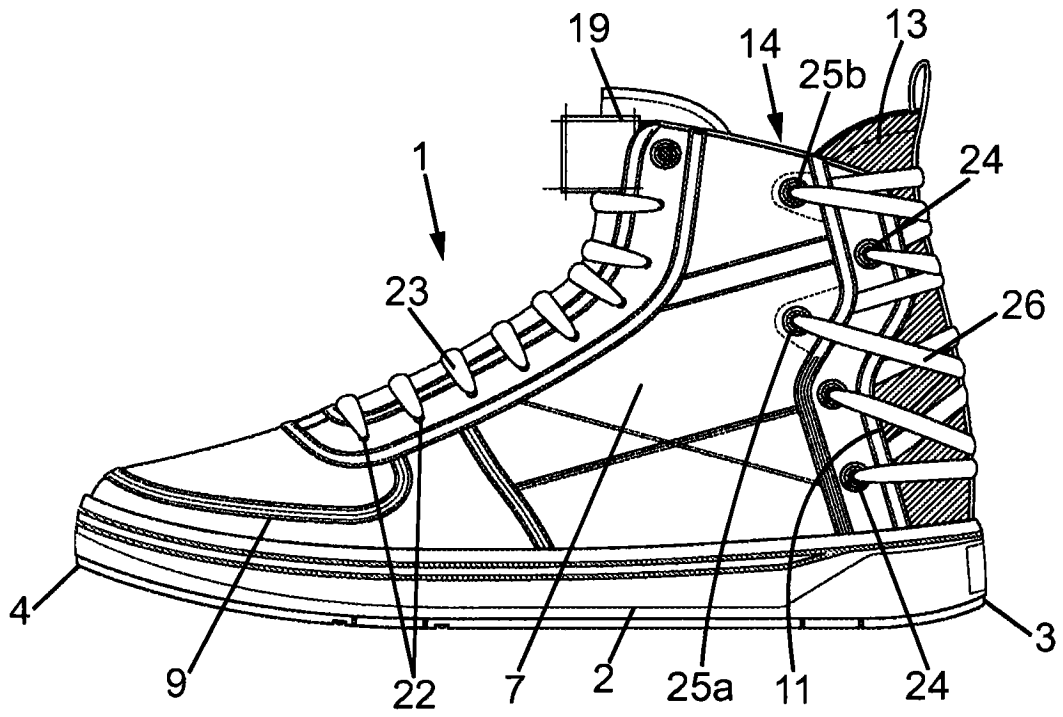


图 3

Abstract

The invention relates to an easy-to-wear lace up article of footwear comprising a forefoot opening intended to be secured by a lacing system and a second opening at the rear heel part of the shoe which is secured by a rear tongue and a rear lacing system.