(19) **Japan Patent Office (JP)** (12) **Registered Utility Model Gazette (U)** (11) Utility Model Registration Number
Utility Model Registration No. 3153220 (U3153220)

(45) Issuance Date **Aug. 27, 2009** (24) **Registration Date** Aug. 5, 2009

(51) Int.Cl. F1
A43B 23/02 (2006.01) A43B 23/02 101B

Request for registrability report: not requested No. of claims: 5 OL (total 8 pages)

(21) Application No.: Utility Model Application 2009-4102(U2009-4102)
(22) Filing Date: Jun. 16, 2009

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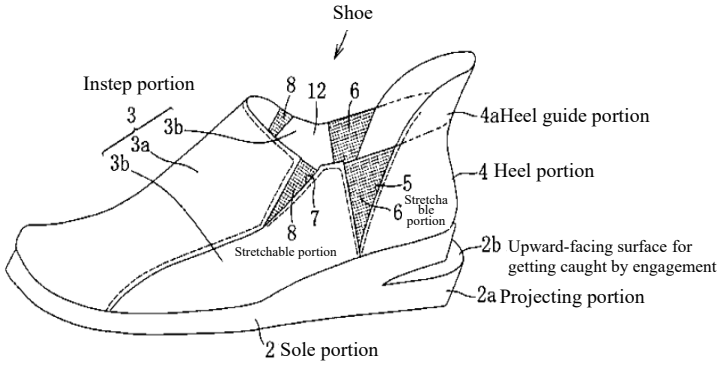
(54)[Title of the Device] SHOE

(57)[Abstract] (with amendment)
[Problem] To provide a shoe that can be easily put on and taken off by people who cannot bend down, such as elderly people, physically disabled people and pregnant women.
[Solution] A shoe 1 consisting of a sole portion 2, an instep portion 3 covering the upper surface side and lateral surface sides of the instep, and a heel portion 4 covering the outside of the heel, where the shoe includes a heel guide portion 4a integrally projecting from the upper end of the heel portion 4 and curving in a slope to go backward as it goes upward, a projecting portion 2a formed at the rear of the sole portion 2 to make it easy to take off the shoe 1, projecting outward, and having an upward-facing surface 2b for getting caught by engagement, and two pairs of stretchable portions 6, 8 composed of a stretchable woven fabric member at the boundary between the instep portion 3 and the heel portion 4 and in the vicinity thereof.

[Selected Figure] FIG. 1



[**Claims of Utility Model Registration**]

[Claim 1]

A shoe having a sole portion, an instep portion covering the upper surface side and lateral surface sides of the instep of a foot, and a heel portion covering the outside of the heel of the foot,

wherein the shoe comprises a heel guide portion integrally projecting from the upper end of the heel portion and curving in a slope to go backward as it goes upward, a projecting portion formed at the rear of the sole portion to make it easy to take off the shoe, projecting outward, and having an upward-facing surface for getting caught by engagement, and at least one pair of stretchable portions provided at the boundary between the instep portion and the heel portion or in the vicinity thereof.

[Claim 2]

The shoe according to claim 1, wherein the height from the upper end of the heel portion to the top of the heel guide portion is 20-50 mm.

[Claim 3]

The shoe according to claim 1 or 2, wherein the heel portion and the heel guide portion are composed of a hard core material, a soft skin material covering the outside of the core material, and a soft lining material covering the inside of the core material.

[Claim 4]

The shoe according to any one of claims 1-3, wherein the one pair of stretchable portions are composed of a stretchable woven fabric member.

[Claim 5]

The shoe according to any one of claims 1-4, wherein the projecting portion is formed in a curved shape along the lower end of the heel portion at the middle of the height of the sole portion corresponding to the heel portion.

[Detailed Description of the Device]

[Technical Field]

[0001]

The present device relates to a shoe that can be easily put on and taken off by people who cannot bend down, such as elderly people, physically disabled people and pregnant women.

[Background Art]

[0002]

Conventionally, when putting on a shoe, a user inserts, starting from toes, a foot into the shoe, and then inserts a heel into the shoe using a shoehorn. If the shoehorn is not used, the shoe is forcibly put on by inserting a finger between the heel portion of the shoe and the heel of the foot, but this makes it difficult to put on the shoe and the heel portion of the shoe tends to lose its shape, so it is common to use the shoehorn when putting on the shoe.

However, it is not practical to place a shoehorn in every place where shoes are worn, and additionally it is troublesome to carry a small shoehorn. Therefore, a shoe has been proposed which is provided with a shoehorn at the heel portion of the shoe to make it easy to put on the shoe even when the shoehorn is not used.

[0003]

For example, in a shoe with a shoehorn body described in Patent Literature 1, a support piece and a shoehorn body projecting towards the outside of the heel portion of the shoe are provided, and the shoehorn body is fixed between the heel portion and the support piece. When putting on the shoe, a user puts the shoehorn body over the inside of the upper edge portion of the heel portion by hand, and then inserts, starting from toes, a foot into the shoe, and with the shoehorn body held by hand, the heel of the foot is pushed along the shoehorn body into the shoe, thereby allowing the user to put on a shoe without using a shoehorn.

[Prior Art Literature]

[Patent Literature]

[0004]

[Patent Literature 1] Jpn Unexamined Patent Application Publication No. 2002-125704

[Summary of the Device]

[Problems to be Solved by the Device]

[0005]

However, in the shoe with the shoehorn body of Patent Literature 1, the shoehorn body is small and made of a flexible material, so it is necessary to hold the shoehorn body by hand when the heel is inserted into the shoe, and the user is required to bend down when putting on the shoe. Therefore, it is very inconvenient for users who cannot bend down, such as elderly people, physically disabled people and pregnant women. Furthermore, when taking off the shoe, the user bends down and pushes down the heel portion of the shoe to take off the shoe from the heel of the foot, and the same is true for the shoe with the shoehorn body of Patent Literature 1. Therefore, also in this case, it is very inconvenient for users who cannot bend down, such as elderly people, physically disabled people and pregnant women.

[0006]

An objective of the present device is to provide a shoe that can be easily put on and taken off by people who cannot bend down, such as elderly people, physically disabled people and pregnant women.

[Means for Solving the Problems]

[0007]

The shoe of claim 1 is a shoe having a sole portion, an instep portion covering the upper surface side and lateral surface sides of the instep of a foot, and a heel portion covering the outside of the heel of the foot, where the shoe includes a heel guide portion integrally projecting from the upper end of the heel portion and curving in a slope to go backward as it goes upward, a projecting portion formed at the rear of the sole portion to make it easy to take off the shoe, projecting outward, and having an upward-facing surface 2b for getting caught by engagement, and at least one pair of stretchable portions provided at the boundary between the instep portion and the heel portion or in the vicinity thereof.

[0008]

As for this shoe, when putting on the shoe, the user first inserts, starting from the toes, the foot into the shoe, and then pushes the heel of the foot into the inside of the heel portion while sliding it along the heel guide portion. At this time, since the one pair of stretchable portions stretches, the opening of the shoe expands, and the heel can be easily placed at the inside of the heel portion. When shoes are taken off, using one foot to press the projecting portion of the other shoe and lifting up the other foot allows the other shoe to be taken off from the heel of the other foot. At this time, since the one pair of stretchable portions stretches, the opening of the shoe expands, allowing the shoe to be easily taken off.

[0009]

The shoe of claim 2 is according to the device of claim 1, where the height from the upper end of the heel portion to the top of the heel guide portion is 20-50 mm.

[0010]

The shoe of claim 3 is according to the device of claim 1 or 2, where the heel portion and the heel guide portion are composed of a hard core material, a soft skin material covering the outside of the core material, and a soft lining material covering the inside of the core material.

[0011]

The shoe of claim 4 is according to the device of any one of claims 1-3, where the one pair of stretchable portions are composed of a stretchable woven fabric member.

[0012]

The shoe of claim 5 is according to the device of any one of claims 1-4, where the projecting portion is formed at the middle of the height of the sole portion corresponding to the heel portion, in a curved shape along the lower end of the heel portion.

[Effects of the Device]

[0013]

According to the device of claim 1, a heel guide portion is included which integrally projects from the upper end of the heel portion and curves in a slope to go backward as it goes upward, so when putting on the shoe, the user first inserts, starting from the toes, the foot into the shoe, and then pushes the heel of the foot into the inside of the heel portion while sliding it along the heel guide portion and, thereby allowing the user to easily put on the shoe without bending down.

[0014]

A projecting portion is included which is formed at the rear of the sole portion to make it easy to take off the shoe, projects outward and has an upward-facing surface for getting caught by engagement, so when shoes are taken off, using one foot to press the upward-facing surface for getting caught of the projecting portion of the other shoe and lifting up the other foot allows the user to easily take off the other shoe from the heel of the other foot without bending down. Alternatively, even by having the upward-facing surface for getting caught of the projecting portion caught on the edge portion of the boundary portion between the earthen floor and the floor of the entrance, the user can easily take off the shoes from the heels of the feet without bending down. Thereby, even people who cannot bend down, such as elderly people, physically disabled people and pregnant women, can easily put on and take off their shoes.

[0015]

Additionally, at least one pair of stretchable portions are included which are provided at the boundary portion between the instep portion and the heel portion or in the vicinity thereof, so when the shoes are put on or taken off, the one pair of stretchable portions stretches, and thereby the opening of the shoe expands, making it easier to put on or take off the shoe.

[0016]

According to the device of claim 2, the height from the upper end of the heel portion to the top of the heel guide portion is 20-50 mm, so the heel guide portion has a sufficient height to guide the heel of the foot, and it is easy to push the heel of the foot into the inside of the heel portion while sliding it along the heel guide portion.

[0017]

According to the device of claim 3, the heel portion and the heel guide portion are composed of a hard core material, a soft skin material covering the outside of the core material, and a soft lining material covering the inside of the core material, so a sufficient strength can be ensured in the heel portion and the heel guide portion, and the heel portion and the heel guide portion can be prevented from losing their shape.

[0018]

According to the device of claim 4, the one pair of stretchable portions are composed of a stretchable woven fabric member, so the one pair of stretchable portions can be realized with a simple structure, and the manufacturing cost of the shoe can be reduced.

[0019]

According to the device of claim 5, the projecting portion is formed in a curved shape along the lower end of the heel at the middle of the height of the sole portion corresponding to the heel portion, so when the shoes are taken off, the upward-facing surface for getting caught of the projecting portion can be reliably pressed using one foot.

[Brief Description of the Drawings]

[0020]

[FIG. 1] a perspective view of a shoe in an example of the present device.

[FIG. 2] a cross sectional view of a heel guide portion.

[FIG. 3] an equivalent of FIG. 1 showing Example 2.

[FIG. 4] an equivalent of FIG. 1 showing Example 3.

[FIG. 5] an equivalent of FIG. 1 showing Example 4.

[FIG. 6] a perspective view of the rear of the shoe in Example 5.

[FIG. 7] a perspective view of the rear of the shoe in Example 6.

[Embodiments of the Device]

[0021]

Hereinafter, the embodiments of the present device will be described.

[Example 1]

[0022]

Hereinafter, Example 1 of the present device will be described with reference to drawings.

As shown in FIG. 1, a shoe 1 includes a sole portion 2, an instep portion 3 covering the upper surface side and lateral surface sides of the instep of the foot, a heel portion 4 covering the outside of the heel of the foot, a heel guide portion 4a integrally projecting from the upper end of the heel portion 4, a projecting portion 2a projecting outward and having an upward-facing surface for getting caught 2b, and two pairs of stretchable portions 6, 8 composed of a stretchable woven fabric member (for example, tatami rubber and stone-grain rubber).

[0023]

The sole portion 2 is made of a light-weight and flexible rubber member, leather, synthetic leather, urethane material, synthetic resin material, or the like. The front half of the sole portion 2 is formed in a substantially horizontal shape, and the rear half of the sole portion 2 is formed in a gentle slope. Therefore, the rear half of the sole portion 2 is thicker than the front half. The upper surface of the sole portion 2 is provided with an insole (illustration omitted).

[0024]

At the front and middle of the sole portion 2, an instep portion 3 covering the upper side of the shoe 1 and made of leather, synthetic leather or the like is joined to the sole portion 2, and at the rear of the sole portion 2, a heel portion 4 covering the outside is joined to the sole portion 2. The instep portion 3 is manufactured by sewing together an upper surface side member 3a and lateral surface side members 3b on the left and right. Note that the instep portion 3 may also be integrally manufactured from one member.

[0025]

As shown in FIG. 1, the boundary portions between the instep portion 3 and the heel portion 4 are respectively provided with a pair of substantially triangular notch portions 5, and these notch portions 5 are respectively mounted with stretchable portions 6 for filling up the notch portions 5. At the instep portion 3, the boundary portions between the upper surface side member 3a and the lateral surface side members 3b (the vicinity portion of the boundary portion between the instep portion 3 and the heel portion 4) are respectively provided with a pair of substantially triangular notch portions 7, and these notch portions 7 are respectively mounted with stretchable portions 8 for filling up the notch portions 7. Note that the notch portions 7 are formed smaller than the notch portions 5, and the stretchable portions 8 are formed smaller than the stretchable portions 6. The instep portion 3, the two pairs of stretchable portions 6, 8, and the upper end portion of the heel guide portion 4a form a shoe opening 12, and the shoe opening 12 expands when the two pairs of stretchable portions 6, 8 stretches.

[0026]

The heel guide portion 4a projects integrally from the upper end of the heel portion 4, and the heel guide portion 4a curves in a slope to go backward as it goes upward. The height from the upper end of the heel portion 4 to the top of the heel guide portion 4a is 20-50 mm.

[0027]

As shown in FIG. 2, the heel portion 4 and the heel guide portion 4a are composed of a hard core material 9, a soft skin material 10 covering the outside of the core material 9, and a soft lining material 11 covering the inside of the core material 9. The core material 9 is made of a synthetic resin material including a hot melt material, a counter material or the like, and the skin material 10 and the lining material 11 are made of leather, synthetic leather or the like.

[0028]

As shown in FIG. 1, at the rear of the sole portion 2, a projecting portion 2a is formed which projects outward from the sole portion 2 at the middle of the height of the sole portion 2 corresponding to the heel portion 4. The projecting portion 2a is formed in a curved shape along the lower end of the heel portion 4, and the upward-facing surface for getting caught 2b of the projecting portion 2a is formed into a size allowing one foot to press when the shoe 1 is taken off.

[0029]

Next, the functions and effects of the shoe 1 mentioned above will be described.

In the shoe 1, when putting on the shoe 1, the user first inserts, starting from the toes, the foot into the shoe 1, and then pushes the heel of the foot into the heel portion 4 while sliding it along the heel guide portion 4a, thereby allowing the user to easily put on the shoe 1 without bending down. At this time, the two pairs of stretchable portions 6, 8 stretches, so the opening 12 of the shoe 1 expands, and the heel can be easily placed inside the heel portion 4.

[0030]

When the shoes 1 are taken off, using one foot to press the upward-facing surface for getting caught 2b of the projecting portion 2a of the other shoe 1 and lifting up the other foot allows the user to easily take off the other shoe 1 from the heel of the other foot without bending down. Alternatively, even by having the upward-facing surface for getting caught 2b of the projecting portion 2a caught on the edge portion of the boundary portion between the earthen floor and the floor of the entrance, the user can easily take off the shoes from the heels of the feet without bending down. At this time, the two pairs of stretchable portions 6, 8 stretches, so the shoe opening 12 expands, making it easy to take off the shoe 1. Therefore, even people who cannot bend down, such as elderly people, physically disabled people and pregnant women, can easily put on and take off their shoes.

[0031]

The height from the upper end of the heel portion 4 to the top of the heel guide portion 4a is 20-50 mm, so the heel guide portion 4a has a sufficient height to guide the heel of the foot, and it is easy to push the heel of the foot into the heel portion 4 while sliding it along the heel guide portion 4a. The heel portion 4 and the heel guide portion 4a are composed of a hard core material 9, a soft skin material 10 covering the outside of the core material 9, and a soft lining material 11 covering the inside of the core material 9, so a sufficient strength can be ensured in the heel portion 4 and the heel guide portion 4a, and the heel portion 4 and the heel guide portion 4a can be prevented from losing their shape.

[0032]

The two pairs of stretchable portions 6, 8 are composed of a stretchable woven fabric member, so the two pairs of stretchable portions 6, 8 can be realized with a simple structure, and the manufacturing cost of the shoe 1 can be reduced. The projecting portion 2a is formed in a curved shape along the lower end of the heel portion 4 at the middle of the height of the sole portion 2 corresponding to the heel portion 4, so when the shoes are taken off, the upward-facing surface for getting caught 2b of the projecting portion 2a can be reliably pressed using one foot

[Example 2]

[0033]

Next, Example 2 of the present invention will be described with reference to FIG. 3. However, the same components as those in the aforementioned example are given the same reference numerals, and only the different components will be described.

As shown in FIG. 3, regarding the shoe 1A in Example 2, the shape of the projecting portion 2a is different. The projecting portion 2a is formed in an arched shape at the middle of the height of the sole portion 2 at the rear end of the sole portion 2. Since the projecting portion 2a is provided only at the rear end of the sole portion 2, the user can be prevented from accidentally stepping on the projecting portion 2a during walking.

[Example 3]

[0034]

Next, Example 3 of the present invention will be described with reference to FIG. 4. However, the same components as those in the aforementioned example are given the same reference numerals, and only the different components will be described.

As shown in FIG. 4, regarding the shoe 1B in Example 3, the boundary portions between the instep portion 3 and the heel portion 4 are provided with a pair of stretchable portions 6. At the instep portion 3, the boundary portions between the upper surface side member 3a and the lateral surface side members 3b on the left and right are provided with a pair of notch portions 7 with a shallower depth than that in Example 1, and these notch portions 7 are not provided with the stretchable portions. Since only one pair of stretchable portions 6 are provided, the manufacturing cost of the shoe 1B can be reduced without compromising the ease of putting on and taking off the shoe 1B.

[Example 4]

[0035]

Next, Example 4 of the present invention will be described with reference to FIG. 5. However, the same components as those in the aforementioned example are given the same reference numerals, and only the different components will be described.

As shown in FIG. 5, regarding the shoe 1C in Example 4, the shape of the projecting portion 2a is the same as that in Example 2, and the one pair of stretchable portions 6 and the one pair of notch portions 7 are the same as those in Example 3. Since only one pair of stretchable portions 6 are provided, the manufacturing cost of the shoe 1C can be reduced without compromising the ease of putting on and taking off the shoe 1C.

[Example 5]

[0036]

Next, Example 5 of the present invention will be described with reference to FIG. 6. However, the same components as those in the aforementioned example are given the same reference numerals, and only the different components will be described.

As shown in FIG. 6, regarding the shoe 1D in Example 5, decorative pieces 20, 21 covering most of the outsides of the one pair of stretchable portions 6 are respectively sewn to the rear edge of the instep portion 3 and the front edge of the heel portion 4.

The decorative pieces 20, 21 are made of leather, synthetic leather or the like. Note that the projecting portion 2a is the same as that in the case of the aforementioned example, and the one pair of stretchable portions 8 may be provided or omitted.

Since the outsides of the one pair of stretchable portions 6 are respectively provided with the decorative pieces 20, 21, the design of the shoe 1D can be improved without compromising the ease of putting on and taking off the shoe 1D.

[Example 6]

[0037]

Next, Example 6 of the present invention will be described with reference to FIG. 7. However, the same components as those in the aforementioned example are given the same reference numerals, and only the different components will be described.

As shown in FIG. 7, regarding the shoe 1E in Example 6, the stretchable portions 6A are composed of a highly-flexible leather or synthetic leather and a stretchable gathered rubber 22 provided at the upper end thereof. Note that the projecting portion 2a is the same as that in the case of the aforementioned example. Since the stretchable portions 6A are composed of the highly-flexible leather or synthetic leather and the gathered rubber 22 at the upper edge thereof, the shoe opening 12 expands when the shoe 1E is put on or taken off, and the shoe 1E can be easily put on or taken off.

[0038]

Next, variation examples in which the aforementioned examples partly vary will be described.

1] The stretchable portions 6, 8 may be made of a leather or a synthetic leather with a plurality of mountain folds and a plurality of valley folds provided between adjacent mountain folds. Alternatively, the stretchable portions 6, 8 may be composed of a rubber member.

2] The projecting portion 2a may be provided at the upper end of the sole portion 2 corresponding to the heel portion 4.

3] The stretchable portions may be provided at only one location, or two or more pairs may be provided.

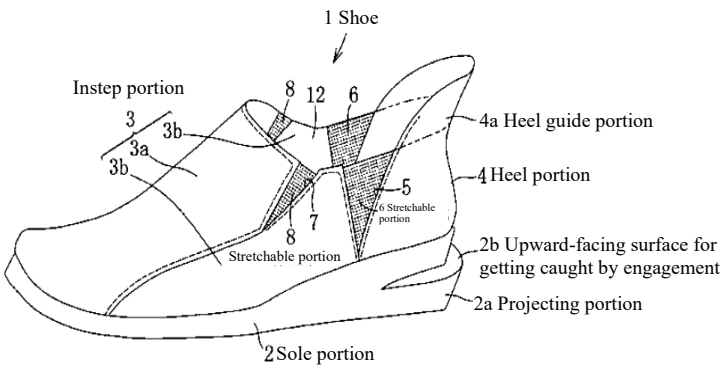
4] In addition to leather shoes, it can be applied to various types of shoes such as boots, sneakers, synthetic leather shoes, cloth shoes, and sandals with heels.

[Reference to the Numerals]

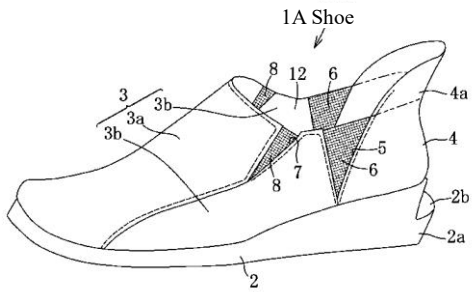
[0039]

1, 1A, 1B, 1C, 1D, 1E	shoe
2	sole portion
2a	projecting portion
2b	upward-facing surface for getting caught by engagement
3	instep portion
4	heel portion
4a	heel guide portion
6, 8, 6A	stretchable portion
9	core material
10	skin material
11	lining material

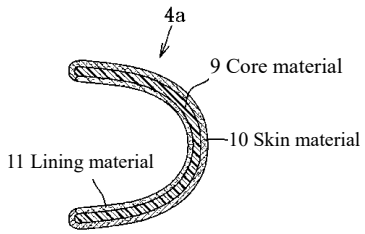
[FIG. 1]



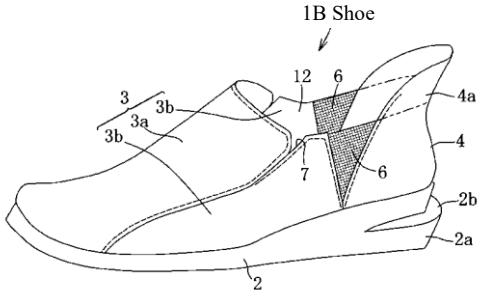
[FIG. 3]



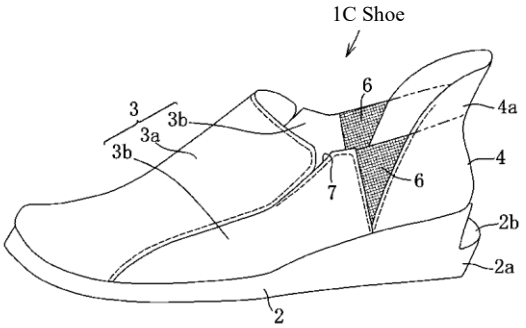
[FIG. 2]



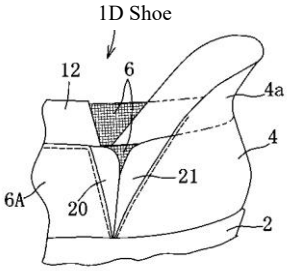
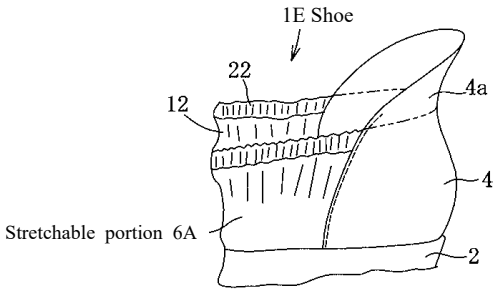
[FIG. 4]



[FIG. 5]



[FIG. 6]



[FIG. 7]