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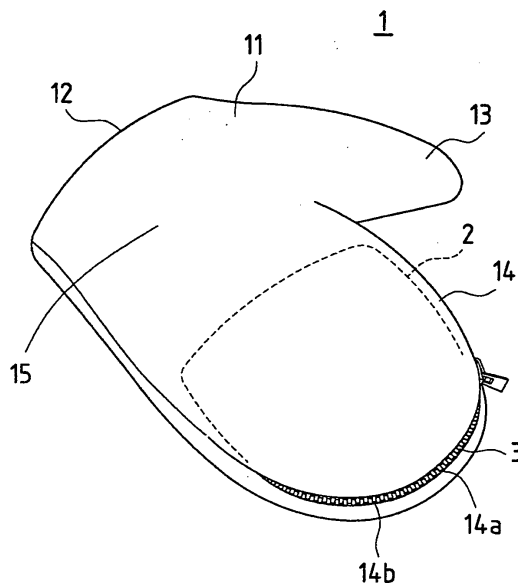
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(54) **GLOVE**

(57) A glove is provided that can warm the fingertips well, and can simply store a pocket warmer in a front end portion of the glove that corresponds to the fingertips. The glove (1) includes a storage portion (2) capable of storing a pocket warmer inside, wherein the storage portion (2) is provided in a front end portion of a glove body

(11), which becomes a fingertip portion when a hand has been inserted in the glove body (11), and the storage portion (2) can be opened/closed via the front end of the glove body (11) by an opening/closing means provided in the front end of the glove body (11). The opening/closing means is a fastener (3).

[Fig. 1]



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Description

Technical Field

[0001] The present invention relates to a glove capable of storing a pocket warmer inside.

Background Art

[0002] Conventionally, as this type of glove, a glove has been proposed that is provided with a storage portion in which a disposable pocket warmer can be stored in a portion that corresponds to the palm or a portion that corresponds to the back of the hand when the hand is inserted in the glove. This conventional glove is configured such that when the glove is put on, by a pocket warmer stored in the storage portion, the hand is warmed and maintained in a warm state (for example, see Patent Document 1).

Patent Document 1: JP S62-97119U

Disclosure Of Invention

Problems To Be Solved By The Invention

[0003] Incidentally, in sports in which hands are used such as golf or basketball, the feeling of the fingertips is very important for playing the sport, so when the sport is played in a state in which the fingertips have become cold and do not have sufficient feeling, such as in winter weather, playing of that sport is negatively affected. In particular, it is necessary to pay adequate attention that the fingertips do not become cold in sports that are played outside, such as golf.

[0004] However, with the above conventional glove, although it is possible to warm the palm or the back of the hand by storing a pocket warmer inside, it is not possible to warm the fingertips, where there is no pocket warmer.

[0005] The present invention was made in view of the above problem, and it is an object thereof to provide a glove that can warm the fingertips well, and furthermore in which it is possible to simply store a pocket warmer in a front end portion of the glove that corresponds to the fingertips.

[0006] It is a further object of the invention to provide a glove that can selectively warm either one or both of the underbelly and the fingernail side of the fingers according to conditions such as the coldness of the fingertips.

Means For Solving Problem

[0007] In order to attain the above object, in the glove according to the present invention, a pocket warmer storage portion that stores one or a plurality of pocket warmers is provided inside a glove body, and the fingertip portion of a hand that has been inserted within this glove

body is warmed by the pocket warmers within the pocket warmer storage portion.

[0008] The glove body is provided with a base end opening portion for inserting/removing the hand; a palm covering portion that is continuous with the base end opening portion and covers the palm and back of the hand; a thumb covering portion that is continuous with the palm covering portion and covers the thumb of the hand; a four finger covering portion that is continuous with the palm covering portion and collectively covers four fingers of the hand, namely the index finger, middle finger, ring finger, and little finger of the hand; a front end opening portion formed at a front end edge portion of the four finger covering portion; and an opening/closing means that opens/closes the front end opening portion.

[0009] On the other hand, the pocket warmer storage portion has a pocket warmer insertion opening for inserting/removing the pocket warmer, and is disposed in the four finger covering portion at a site where the fingertip portion of the four fingers is present when these fingers have been inserted, the pocket warmer insertion opening is disposed in the front end opening portion of the four finger covering portion, and the pocket warmer insertion opening is opened/closed along with the front end opening portion by the opening/closing means.

[0010] Because the glove of the invention has the above configuration, this glove can warm the fingertips well. Accordingly, it is possible to maintain the feeling of the fingertips in a good state even in intense cold. Also, by opening an opening/closing means, the pocket warmer storage portion can be opened via the front end opening portion in the front end edge of the four finger covering portion, and even while the glove is being worn, it is possible to easily insert/remove a pocket warmer via this front end opening portion.

[0011] In the above glove, a configuration may be adopted in which spaces are secured that respectively allow insertion of the fingertip portion between the outer face of the pocket warmer storage portion and an inner face of the fingernail side of the four finger covering portion, and between the outer face of the pocket warmer storage portion and an inner face of the finger underbelly side of the four finger covering portion.

[0012] In this case, it is possible to selectively insert the fingertip portion into either one of the two spaces described above, so of the surface and back of the fingertip portion, i.e. the fingernail side and the underbelly side, it is possible to put the side desired to be preferentially warmed directly in contact with the outer face of the pocket warmer storage portion.

[0013] Also, in the above glove, a configuration may be adopted in which the pocket warmer storage portion includes a first compartment that is provided at an inner face of the fingernail side of the four finger covering portion, and stores one pocket warmer, and a second compartment that is provided at an inner face of the finger underbelly side of the four finger covering portion, and stores another pocket warmer; and a space is secured

that allows insertion of the fingertip portion between the first compartment and the second compartment.

[0014] In this case, the fingertip portion is sandwiched between two pocket warmers, i.e. the pocket warmer stored in the first compartment and the pocket warmer stored in the second compartment, so the entire fingertip portion can be warmed in a short time period.

[0015] Also, in the above glove, the pocket warmer storage portion includes a first compartment and a second compartment that individually store two pocket warmers. A configuration may be adopted in which the first compartment and the second compartment are respectively provided so as to be swingable within the four finger covering portion in the direction toward both an inner face of the fingernail side and an inner face of the finger underbelly side; and spaces are selectively secured that allow any of insertion of the fingertip portion between the first compartment and the inner face of the fingernail side of the four finger covering portion, between the first compartment and the second compartment, or between the second compartment and the inner face of the finger underbelly side of the four finger covering portion.

[0016] In this case, it is possible to selectively insert the fingertip portion into any one of the three spaces described above, so of the surface and back of the fingertip portion, it is possible to warm the fingertip portion by putting the side desired to be preferentially warmed in contact with the outer face of the first compartment or the second compartment pocket warmer storage portion, and it is also possible to sandwich the fingertip portion between the first compartment and the second compartment, thus warming the entire fingertip portion.

[0017] Also, in the above glove, the opening/closing means may be a fastener, or the opening/closing means may be a hook-and-loop fastener.

[0018] In this case, opening/closing of the front end opening portion of the four finger covering portion is simple, and even while the glove is being worn it is possible to open/close the front end opening portion with one hand.

[0019] Note that in this invention, the pocket warmer is an item that is widely circulating in the commercial marketplace at present and thus is easily obtained, and is in a form that can be stored in the pocket warmer storage portion. For example, the pocket warmer is a so-called disposable pocket warmer in which iron powder that oxidizes to generate heat in air is placed in a bag of non-woven cloth or paper, or a so-called platinum-catalytic pocket warmer, in which vaporized benzyne is caused to slowly oxidize to generate heat using the catalytic action of platinum.

Effect Of The Invention

[0020] With the glove of the invention, it is possible to warm the fingertips well, so it is possible to maintain the feeling of the fingertips in a good state. Also, by opening

an opening/closing means, the storage portion can be opened via the front end, and via this front end opening it is possible to easily insert/remove a pocket warmer.

5 Brief Description Of Drawings

[0021]

10 FIG. 1 is a perspective view that shows a glove of the invention.

FIG. 2 is a cross-sectional view that shows the same glove.

FIG. 3 is a perspective view that shows the glove with its front end opened.

15 FIG. 4A is a cross-sectional view that shows the glove shown in FIG. 2 used in a state in which the underbelly side of a fingertip portion is in contact with a pocket warmer storage portion, and FIG. 4B is a cross-sectional view that shows the glove shown in FIG. 2 used in a state in which the fingernail side of the fingertip portion is in contact with the pocket warmer storage portion.

FIG. 5 is a cross-sectional view that shows a glove according to another embodiment of the invention.

25 FIG. 6A is a cross-sectional view that shows a glove according to still another embodiment of the invention, in a state in which the fingertip portion has been inserted between a first compartment and a second compartment of a pocket warmer storage portion, FIG. 6B is a cross-sectional view that shows a glove according to still another embodiment of the invention, in a state in which the underbelly side of the fingertip portion is put in contact with the first compartment of the pocket warmer storage portion, and FIG. 6C is a cross-sectional view that shows a glove according to still another embodiment of the invention, in a state in which the fingernail side of the fingertip portion is put in contact with the second compartment of the fingertip storage portion.

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Description of Reference Numerals

[0022]

- 1 glove
- 11 glove body
- 12 base end opening portion
- 13 thumb covering portion
- 14 four finger covering portion
- 14a front end edge portion
- 14b front end opening portion
- 15 palm covering portion
- 2 pocket warmer storage portion
- 2a pocket warmer insertion opening
- 21, 25 first compartment
- 22, 26 second compartment
- 3 fastener (opening/closing means)
- S1, S2, S3, S5, S6, S7 space

Best Mode For Carrying Out The Invention

[0023] Hereinafter, embodiments of the present invention will be described with reference to the drawings.

[0024] FIG. 1 shows a glove 1 of the invention.

[0025] A glove body 11 of the glove 1, which is a so-called mitten-type glove, is provided with a base end opening portion 12 for inserting/removing a hand, a palm covering portion 15 that is continuous with the base end opening portion 12 and covers the palm and back of the hand, a thumb covering portion 13 that is continuous with the palm covering portion 15 and covers the thumb of the hand, and a four finger covering portion 14 that is continuous with the palm covering portion 15 and collectively covers four fingers of the hand, i.e. the index finger, middle finger, ring finger, and little finger of the hand. The glove body 11 is produced with a material having excellent heat-retaining properties, is made so as to insure water resistance as necessary, and is made capable of adequately exhibiting an effect of retaining heat generated by a pocket warmer, described below.

[0026] In the above-described four finger covering portion 14, a pocket warmer storage portion 2 is provided from the front end to an intermediate portion of the four finger covering portion 14, as shown in FIG. 2. This pocket warmer storage portion 2 is formed pouch-like so as to store a heat-retaining device such as a disposable pocket warmer, and is produced using a mesh fabric, for example, such that heat generated by the pocket warmer is easily transmitted to the fingertips.

[0027] This pocket warmer storage portion 2 is configured to be capable of opening/closing along with a front end edge portion 14a of the four finger covering portion 14. Specifically, a configuration is adopted in which a pocket warmer insertion opening 2a is formed in the pocket warmer storage portion 2, and also a front end opening portion 14b of a predetermined length along the front end edge portion 14a is formed in the front end edge portion 14a of the four finger covering portion 14. The opening edge of the pocket warmer insertion opening 2a, for example, is stitched on the front end opening portion 14b, and both of these openings (the pocket warmer insertion opening 2a and the front end opening portion 14b) are opened/closed together by a fastener 3 that serves as an opening/closing means. Accordingly, by opening the fastener 3, the pocket warmer insertion opening 2a of the pocket warmer storage portion 2 can be opened via the front end opening portion 14b, and thus it is possible to easily insert/remove a pocket warmer A via this end opening portion 14b.

[0028] By configuring the glove 1 in this manner, it possible for a player to warm the fingertips well by inserting a hand in the glove 1 of the invention while the player is moving, for example when playing golf, and thus the feeling of the fingertips can be maintained in a good state. More specifically, as shown in FIG. 4, in the glove 1 of this embodiment, spaces S1 and S2 are secured that respectively allow insertion of a fingertip portion F be-

tween the outer face of the pocket warmer storage portion 2 and an inner face 14c of the fingernail side of the four finger covering portion 14, and between the outer face of the pocket warmer storage portion 2 and an inner face 14d of the finger underbelly side of the four finger covering portion 14. Accordingly, it is possible to selectively insert the fingertip portion F into either one of the two spaces S1 and S2, so of the surface and back of the fingertip portion, i.e. the fingernail side and the underbelly side, it is possible to put the side desired to be preferentially warmed directly in contact with the outer face of the pocket warmer storage portion 2.

[0029] In the above embodiment, the pocket warmer storage portion 2 has a one compartment structure in which one pocket warmer A is stored, but this is not a limitation of the invention. For example, as shown in FIG. 5, a configuration may be adopted in which the pocket warmer storage portion 2 includes a first compartment 21 that is provided at the inner face 14c of the fingernail side of the four finger covering portion 14 and stores one pocket warmer A1, and a second compartment 22 that is provided at the inner face 14d of the finger underbelly side of the four finger covering portion 14 and stores another pocket warmer A2, and a space S3 is secured that allows insertion of the fingertip portion F between the first compartment 21 and the second compartment 22.

[0030] In this case, the fingertip portion F is sandwiched between the two pocket warmers A1 and A2, i.e. the pocket warmer A1 stored in the first compartment 21 and the pocket warmer A2 stored in the second compartment 22, so the entire fingertip portion F can be warmed in a short time period.

[0031] Also, other than the embodiment described above, for example, a configuration as shown in FIG. 6 may be adopted.

[0032] That is, in the glove shown in FIG. 6, the pocket warmer storage portion 2 is provided with a first compartment 25 and a second compartment 26 that individually store the two pocket warmers A1 and A2, and the first compartment 25 and the second compartment 26 are respectively provided so as to be swingable within the four finger covering portion 14 in the direction toward both the inner face 14c of the fingernail side and the inner face 14d of the finger underbelly side. In this configuration, spaces S5, S6, and S7 are selectively secured that allow any of insertion of a fingertip portion F between the first compartment 25 and the inner face 14c of the fingernail side of the four finger covering portion 14, between the first compartment 25 and the second compartment 26, or between the second compartment 26 and the inner face 14d of the finger underbelly side of the four finger covering portion 14.

[0033] In this case, it is possible to selectively insert the fingertip portion F into any one of the three spaces S5, S6, and S7 described above, so of the surface and back of the fingertip portion, it is possible to warm the fingertip portion by putting the side desired to be preferentially warmed in contact with the outer face of the first

compartment 25 or the second compartment 26, and it is also possible to sandwich the fingertip portion F between the first compartment 25 and the second compartment 26, thus warming the entire fingertip portion F.

[0034] Also, in the above glove, the fastener 13 is used as an opening/closing means, but other than the fastener 13, a hook-and-loop fastener may be adopted, for example.

[0035] When the fastener 13 or a hook-and-loop fastener is used as an opening/closing means, opening/closing of the front end opening portion 14b of the four finger covering portion 14 becomes simple, and even while the glove 1 is being worn it is possible to open/close the front end opening portion 14 with one hand.

[0036] The embodiment above is a preferred embodiment of the invention, but this is not any kind of limitation of the invention, and various design modifications within the scope of the invention are possible.

[0037] For example, the opening/closing means is not limited to the fastener 3; it is sufficient to adopt a suitable configuration capable of opening/closing the front end opening portion 14b.

[0038] Furthermore, another pocket warmer storage portion may be provided also at an appropriate site of the palm covering portion 15 of the glove body 11, thus warming the back of the hand together with the fingertips.

[0039] Also, it is sufficient that the invention is a glove provided with a pocket warmer storage portion capable of storing a pocket warmer inside, wherein the pocket warmer storage portion is provided in the front end portion of the glove body, which becomes a fingertip portion when a hand has been inserted in the glove body, and the pocket warmer storage portion can be opened/closed via the front end of the glove body by an opening/closing means provided in the front end of the glove body. Accordingly, the invention is not limited to mitten-type gloves such as that in the above embodiment, and may have a configuration provided with only one covering portion that collectively covers all five fingers.

Industrial Applicability

[0040] This glove is generally applicable in a wide range of settings, such as, in addition to sports other than golf or basketball, commuting to work or school, mountaineering or fishing, and cold weather outfitting for a disabled person.

Claims

1. A glove comprising a pocket warmer storage portion that is provided inside of a glove body and stores one or a plurality of pocket warmers, and warms a fingertip portion of a hand that has been inserted in the glove body with the pocket warmer within the pocket warmer storage portion, wherein the glove body comprises:

a base end opening portion for inserting/removing the hand,

a palm covering portion that is continuous with the base end opening portion and covers the palm and back of the hand,

a thumb covering portion that is continuous with the palm covering portion and covers the thumb of the hand,

a four finger covering portion that is continuous with the palm covering portion and collectively covers four fingers of the hand, namely the index finger, middle finger, ring finger, and little finger of the hand,

a front end opening portion formed at a front end edge portion of the four finger covering portion, and

an opening/closing means that opens/closes the front end opening portion, wherein

the pocket warmer storage portion has a pocket warmer insertion opening for inserting/removing the pocket warmer, and is disposed in the four finger covering portion at a site where the fingertip portion of the four fingers is present when these fingers have been inserted, the pocket warmer insertion opening is disposed in the front end opening portion of the four finger covering portion, and the pocket warmer insertion opening is opened/closed along with the front end opening portion by the opening/closing means.

2. The glove according to claim 1, wherein spaces are secured that respectively allow insertion of the fingertip portion between the outer face of the pocket warmer storage portion and an inner face of the fingernail side of the four finger covering portion, and between the outer face of the pocket warmer storage portion and an inner face of the finger underbelly side of the four finger covering portion.

3. The glove according to claim 1, wherein the pocket warmer storage portion comprises:

a first compartment that is provided at an inner face of the fingernail side of the four finger covering portion, and stores one pocket warmer, and

a second compartment that is provided at an inner face of the finger underbelly side of the four finger covering portion, and stores another pocket warmer, and

a space is secured that allows insertion of the fingertip portion between the first compartment and the second compartment.

4. The glove according to claim 1, wherein the pocket warmer storage portion comprises:

es a first compartment and a second compartment that individually store two pocket warmers, the first compartment and the second compartment being respectively provided so as to be swingable within the four finger covering portion in the direction toward both an inner face of the fingernail side and an inner face of the finger underbelly side, and spaces are selectively secured that allow any of insertion of the fingertip portion between the first compartment and the inner face of the fingernail side of the four finger covering portion, between the first compartment and the second compartment, or between the second compartment and the inner face of the finger underbelly side of the four finger covering portion.

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5. A glove comprising a storage portion capable of storing a pocket warmer inside, wherein the storage portion is provided in a front end portion of a glove body, which becomes a fingertip portion when a hand has been inserted in the glove body, and the storage portion can be opened/closed via the front end of the glove body by an opening/closing means provided in the front end of the glove body.

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6. The glove according to any one of claims 1 to 5, wherein the opening/closing means is a fastener.

7. The glove according to any one of claims 1 to 5, wherein the opening/closing means is a hook-and-loop fastener.

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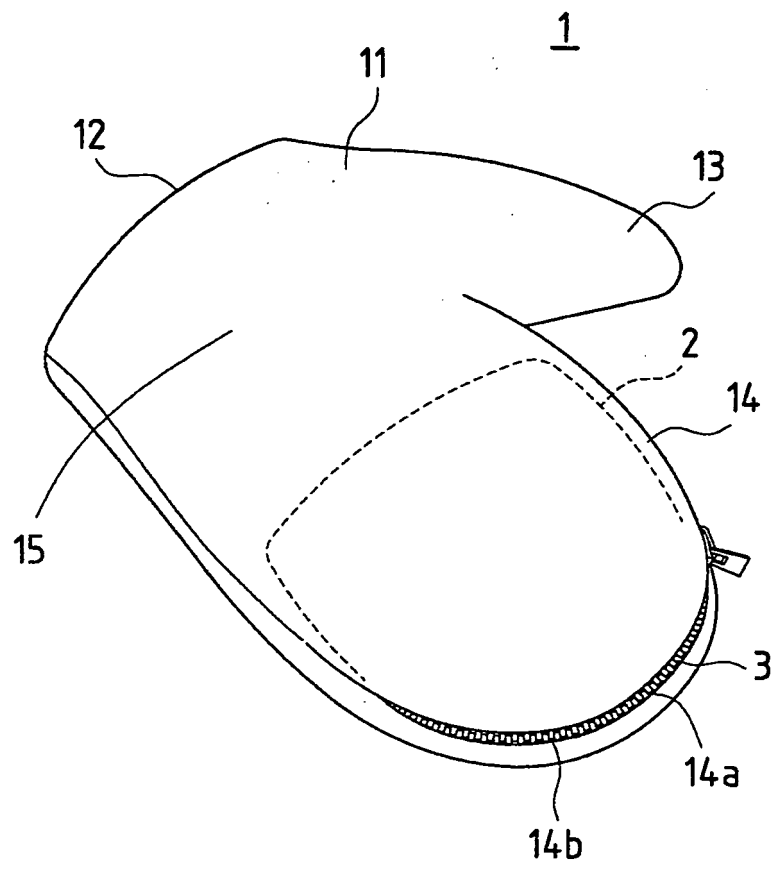
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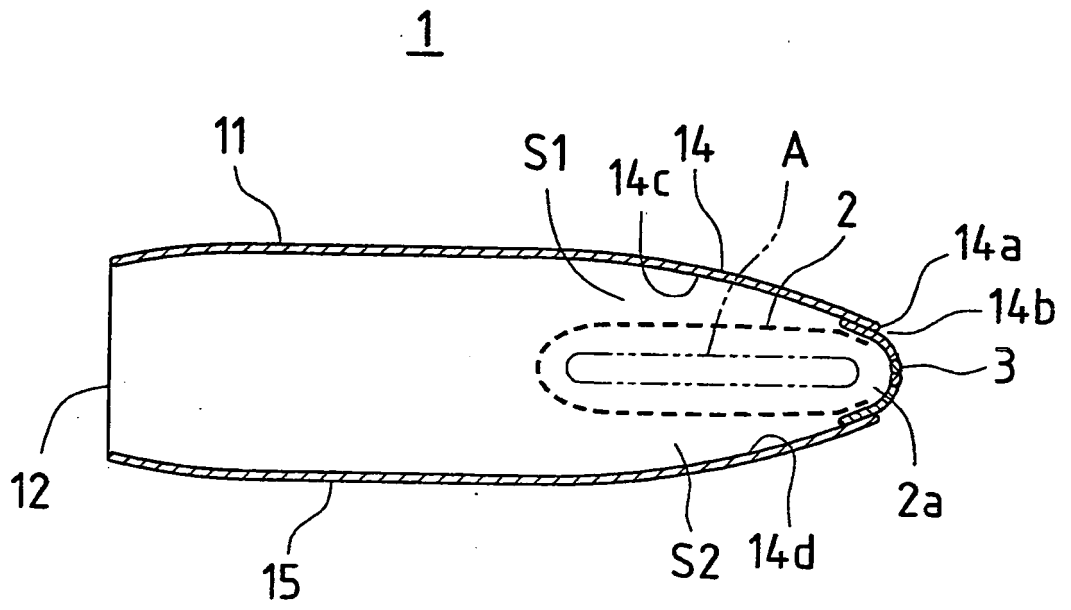
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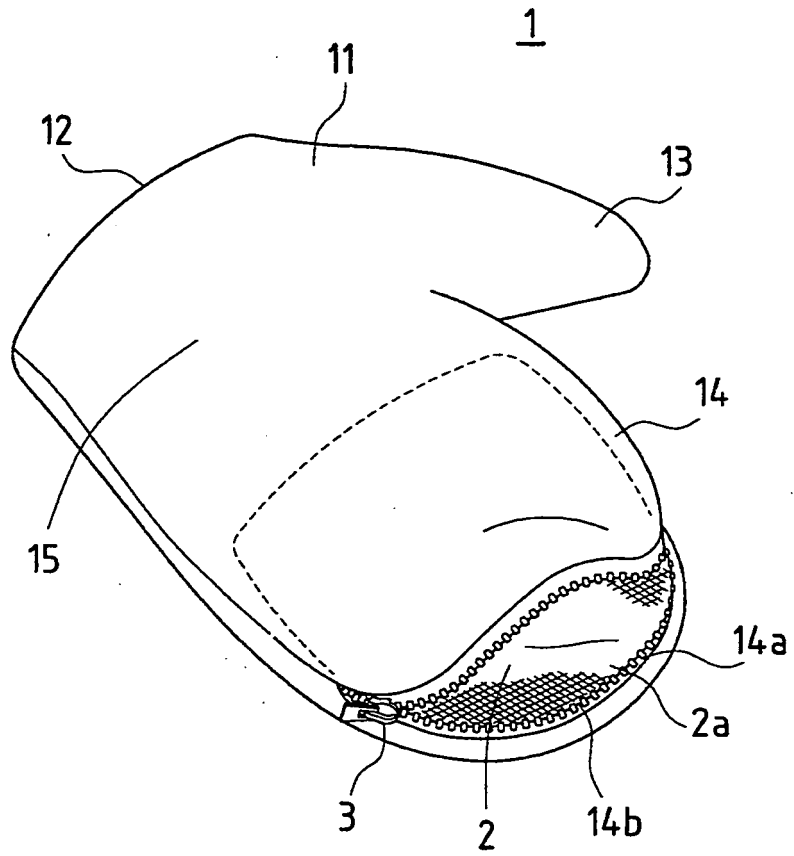
[Fig. 1]



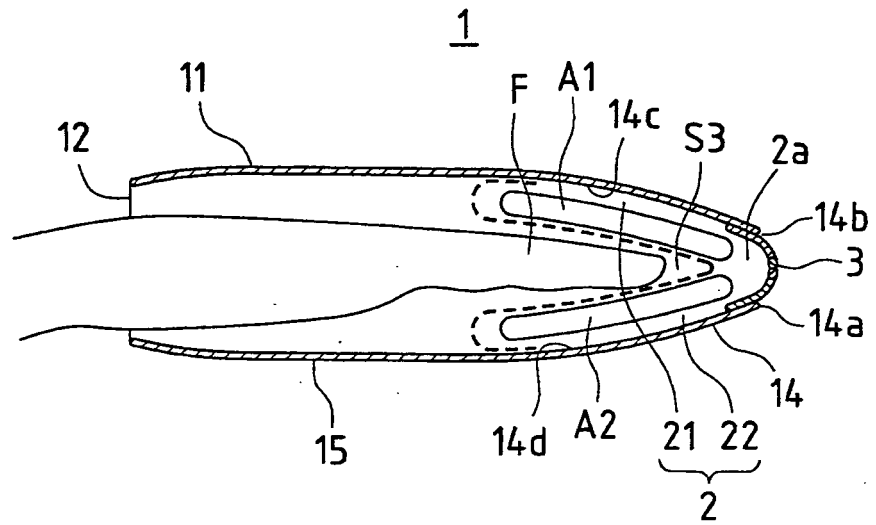
[Fig. 2]



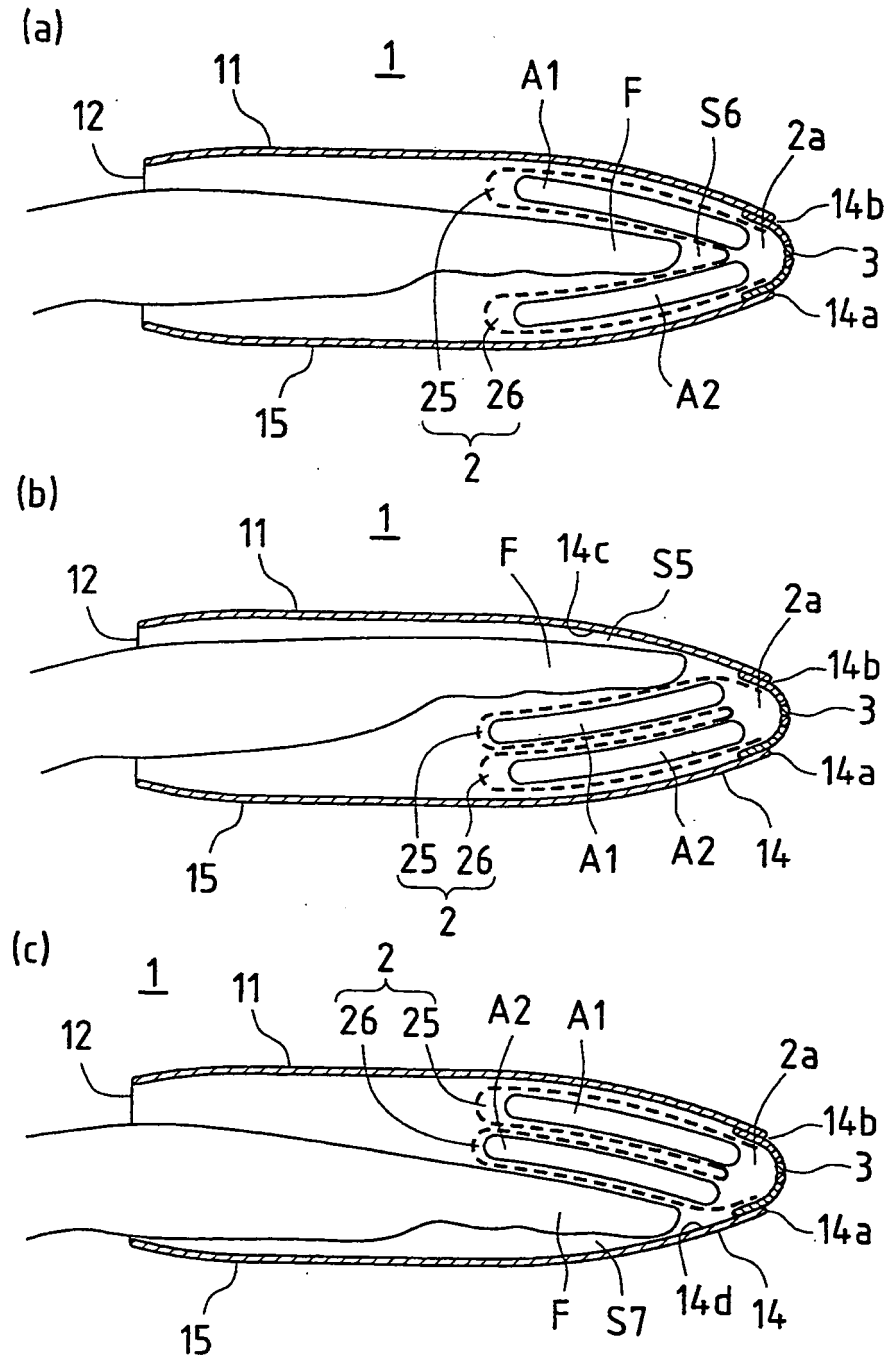
[Fig. 3]



[Fig. 5]



[Fig. 6]



INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2007/050719

A. CLASSIFICATION OF SUBJECT MATTER A41D19/00(2006.01)i, A41D19/01(2006.01)i		
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) A41D19/00-19/04, A63B71/14		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2007 Kokai Jitsuyo Shinan Koho 1971-2007 Toroku Jitsuyo Shinan Koho 1994-2007		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	JP 3116713 U (Kimura Sangyo Kabushiki Kaisha), 15 December, 2005 (15.12.05), Claim 1; Figs. 1, 4 (Family: none)	1, 5-7 3 2, 4
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 126309/1986 (Laid-open No. 34115/1988) (Mutsuro YAMASHITA), 04 March, 1988 (04.03.88), Page 2, lines 13 to 16; Fig. 3 (Family: none)	3
<input type="checkbox"/> Further documents are listed in the continuation of Box C.		<input type="checkbox"/> See patent family annex.
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Patent documents cited in the description

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