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(54) **Inner lining shoe for ski boots having a one piece tongue assembly**

Innenschuh für Skischuhe mit einer einteiligen Zunge

Chaussure intérieure pour chaussure de ski comprenant une languette monopiece

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Description

[0001] The present invention relates to a process of manufacturing an inner lining shoe to be put on within a rigid boot, such as a ski-boot with fore entry, in which the standard tongue is integrally formed with part of the upper of the lining shoe.

[0002] It is known that the lining shoes to be used together with ski-boots are provided at their leg portion with tongues having the purpose of shielding the leg from a direct contact with the rigid shell of the boot.

[0003] From DE-U-8113635 there is known an inner lining shoe for ski boots having a tongue assembly which is integrally formed with the upper of the shoe, it being delimited by side slits in the upper.

[0004] EP-A-0259720 discloses an inner lining shoe for ski-boots having a tongue assembly wherein the upper is fastened at the lower perimetral edge hereof to the sole of the shoe.

[0005] Usually the tongues provided in the lining shoes to be inserted into a ski-boot are either fastened to the upper, for example by sewing, or secured in a floating manner, namely anchored to the upper by means permitting a sliding motion thereof in a longitudinal direction with respect to said upper in order to permit said tongue to be positioned in the most adequate manner with respect to the upper in order to fully fit the foot to the shoe and thus to the boot.

[0006] Said means for anchoring the tongue to the upper consist of a sewing or a pin-like member slidable within a groove of the upper and may cause thickenings or greater encumbrances just at the level of the instep wherein said thickenings can create uncomfortable situation which are difficultly bearable especially in sport-wear, such as the ski-boots, in which said situations are to be avoided as much as possible.

[0007] In order to eliminate these drawbacks the process of claim 1 has been provided

[0008] The features and advantages of the present invention shall more clearly appear from the following description of a preferred embodiment thereof, not to be construed in a limiting sense, with reference to the accompanying drawings, in which:

Fig.1 is a perspective view of a wearable shoe comprising a tongue assembly made according to the process of the present invention;

Fig.2 is a cross-section view of the same lining shoe particularly showing the tongue assembly

Fig.3 is a perspective view of a tongue assembly shown in a condition removed from the remainder of the shoe;

Fig.4 is a perspective view of the remaining part of the shoe adapted for the connection to the tongue assembly of fig.3.

[0009] Referring to the above figures;the shoe comprises an integrally formed tongue assembly con-

sisting of the proper tongue 14 joined to a fore portion 16 of the upper by suitable means such as for example the sewing 18 (better viewable in fig.3).The upper is also formed by a remaining rear portion 20 including a leg part 22 and is connected to a sole 24 by per se known means, such as cementing or thermowelding of parts containing adhesive means, by melting and solidifying again. Said integrally formed tongue assembly 12 is provided in the fore part 16 of the upper with side edges, the edge 26 of which can be seen, which are joined to corresponding fore edges 28 and 32 of the rear part 20 of the upper by means of sewings such as the sewing 34 shown in fig.1 and the sewing 36 shown in fig.2.The aforesaid fore portion 16 of the upper is also provided with a lower peripheral edge 38 which can be coupled with a peripheral edge 40 of said sole 24 and can be joined thereto by known means, such as cementing or thermowelding.

[0010] Owing to obvious manufacturing reasons the fore portion 16 of the upper is provided with sewings 42 and 44 permitting it to be given the desired shape and function.

[0011] For sake of description completeness an elastic ribbon 46 is shown having the purpose of causing the shoe and particularly the upper thereof to adhere to the internally fitted foot.

[0012] A particular advantage of a shoe manufactured with the process according to the present invention is the reduction of the number of spare parts to be stored, since for the series manufacturing of these shoes it is sufficient to have available one type of tongue assembly for each shoe size and one type of shoe remaining part every two shoe sizes whereby the number of types of shoe remaining parts to be stored is reduced to one half. If consideration is paid to the fact that said shoe remaining parts are the greater part of the shoe the storage economy which can be attained is evident.

[0013] The above description relates to a specific embodiment of the present invention which is not to be interpreted in a limiting sense and it will be evident that substituting equivalent parts shall be conceivable for those skilled in this field upon reading the above description. For example the sewings 34 and 36 might be substituted for by cementing or thermowelding joints and the connection between the peripheral edges 38 and 40 might be effected by sewing, as it is used in the shoe manufacturing technology.

Claims

1. A process for manufacturing an inner lining shoe for ski boots, which comprises the following steps:
 - providing a tongue assembly (12) consisting of a proper tongue (14) integrally formed with a part (16) of the upper so as to have an inner padding which extends continuously along said

tongue and said part, avoiding inside thickenings at the instep level, wherein the part (16) of the upper is an extension of the tongue (14) and consists of a fore part adapted to constitute the whole soleless toe portion of the upper of the shoe;

- providing an upper remaining part (20) including a leg part (22), connected to a sole (24);
- connecting said extension of the tongue assembly (12) to the upper remaining part (20) and to the sole (24) through fastening means (34, 36) in position remote from the instep.

2. A process according to claim 1, wherein the part (16) of the upper integrally formed with the tongue (14) comprises a lower peripheral edge (38) which can be anchored and secured to the sole (24), and two rear sides (26) which can be connected to the upper remaining part (20).

3. A process according to any of claims 1 and 2, wherein the fastening means (34, 36) consists of sewing, cementing or thermowelding means.

Patentansprüche

1. Verfahren zur Herstellung eines Innenauskleidungsschuhs für Skistiefel, mit den folgenden Schritten:

- Bereitstellen eines Zungengebildes (12), welches aus einer eigentlichen Zunge (14) besteht, die integral so mit einem Teil (16) des Schafts ausgebildet ist, daß sie eine sich durchgehend längs der Zunge und dieses Teils erstreckende, innenseitige Verdickungen in Risthöhe vermeidende Innenpolsterung aufweist, wobei dieser Teil (16) des Schafts ein Fortsatz der Zunge (14) ist und aus einem Vorderteil besteht, welcher zur Bildung des gesamten, sohlenfreien Zehenbereichs des Schuhschafts ausgeführt ist,
- Bereitstellen eines mit einer Sohle (24) verbundenen, einen Beinteil (22) aufweisenden restlichen Schafteils (20),
- Verbinden des Fortsatzes des Zungengebildes (12) mit dem restlichen Schafteil (20) und der Sohle (24) durch Befestigungsmittel (34, 36) an ristfernen Stellen.

2. Verfahren nach Anspruch 1, bei dem der mit der Zunge (14) integral ausgebildete Schafteil (16) einen unteren Begrenzungsrand (38) aufweist, welcher an der Sohle (24) verankert und gesichert werden kann, sowie zwei Rückseiten (26) aufweist, welche mit dem restlichen Schafteil (20) verbunden werden können.

3. Verfahren nach einem der Ansprüche 1 und 2, bei dem die Befestigungsmittel (34, 36) aus Näh-, Klebe- oder Thermoschweißmitteln bestehen.

5 Revendications

1. Procédé de fabrication d'une chaussure intérieure pour chaussures de ski, qui comprend les étapes suivantes :

- prévoir un assemblage de languette (12) constitué d'une languette proprement dite (14) conformée intégralement avec une portion (16) du dessus de la chaussure de manière à avoir un rembourrage interne qui s'étend en continu le long de ladite languette et de ladite portion, en évitant des sur-épaisseurs intérieures au niveau du cou-de-pied, dans lequel la partie (16) du dessus de la chaussure est une extension de la languette (14) et consiste en une partie avant adaptée pour constituer l'intégralité de la portion formant pointe, sans la semelle, du dessus de la chaussure;
- prévoir une partie restante (20) du dessus de la chaussure incluant une partie de jambe (22), reliée à une semelle (24);
- relier ladite extension de l'assemblage de languette (12) à la partie restante (20) du dessus de la chaussure et à la semelle (24) par des moyens de fixation (34, 36) en une position éloignée du cou-de-pied.

2. Procédé selon la revendication 1, dans lequel la partie (16) du dessus de la chaussure conformée intégralement avec la languette (14) comprend un bord périphérique inférieur (38) qui peut être ancré et fixé à la semelle (24), et deux côtés arrière (26) qui peuvent être reliés à la partie restante (20) du dessus.

3. Procédé selon la revendication 1 ou 2, dans lequel les moyens de fixation (34, 36) consistent en des moyens de couture, de collage ou de thermosoudure.

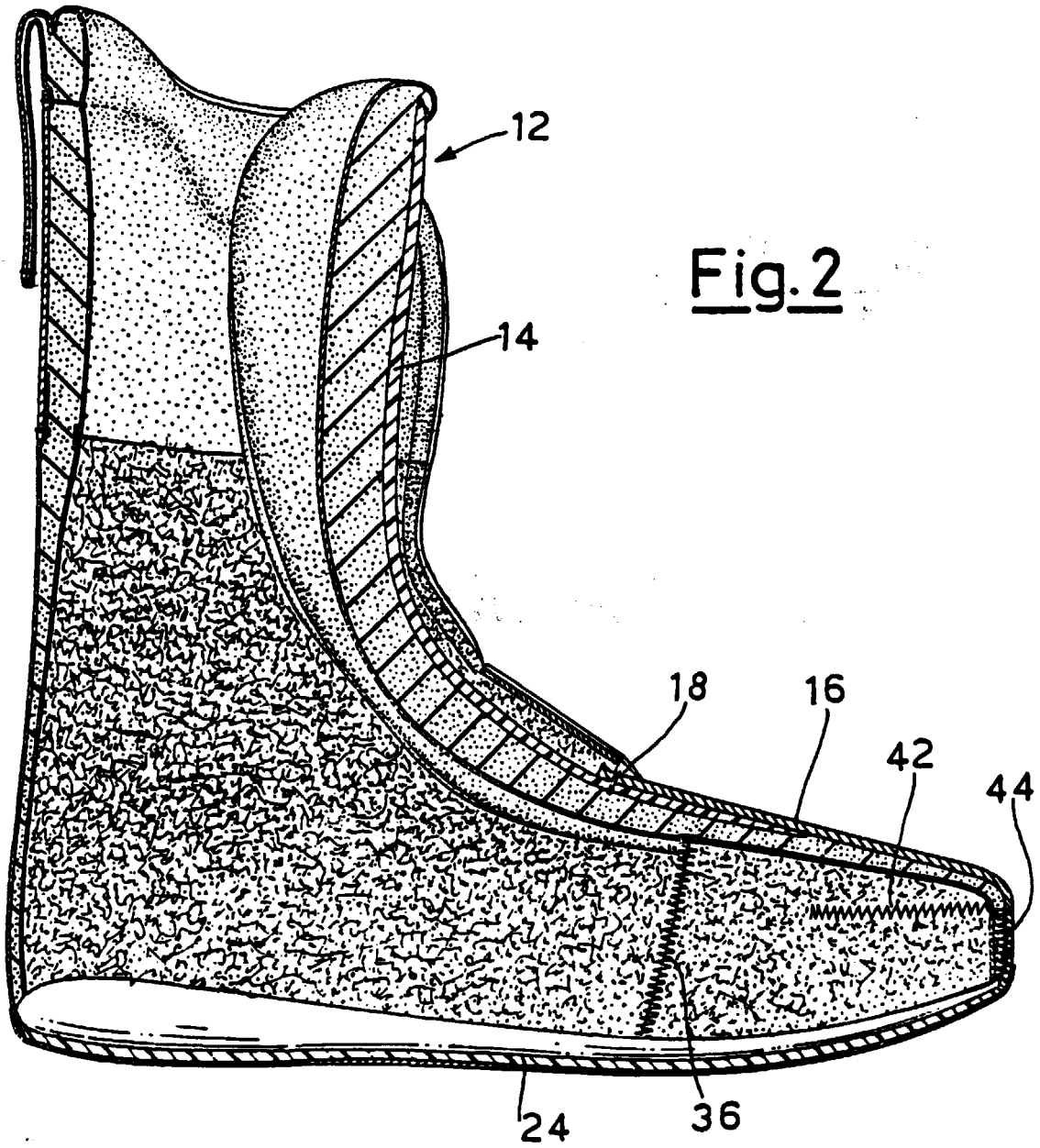


Fig. 2

