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(54) **TRANSPORT DEVICE**

(57) A device for transporting an elongate, thin object, comprising a flexible device body (12) with an upper passage opening (13) arranged opposite a lower passage opening (14) located orthogonal to a longitudinal axis of symmetry of the flexible device body (12), a first closed cord (17) is configured to slide inside a first hem (15) and a second hem (16) and runs outwardly along a first side (22) of the body (12) of the device, a second

closed cord (18) is configured to slide inside the first hem (15) and the second hem (16) and runs outwardly along a second side (23) of the body (12) of the device; so that, by simultaneously pulling the first cord (17) and second cord (18) a simultaneous strangulation of the upper mouth (13) and the lower mouth (14) is produced, resulting in a free outer portion of the first cord (17) and second cord (18) to be placed on the shoulders of a skier.

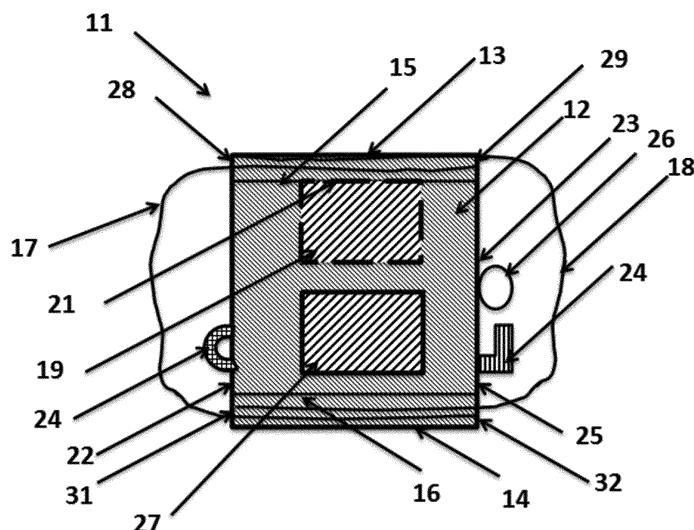


Fig. 1

## Description

**[0001]** The present invention relates to a device for transporting skis, a snowboard, a snow surfboard, or the like.

## Background art

**[0002]** The inconvenience of moving around a ski resort from one place to another carrying your skis in your hand is well known.

**[0003]** Known from the prior art is a hand-held ski carrying device in the form of a ring of flexible material which, when placed between the ski bindings, provides a gripping area or handle for carrying skis with one hand and, if a longer strap is added to the handle, allows carrying over one shoulder.

**[0004]** The above-mentioned hand-held ski holder device consists of several separate parts which, once assembled, form the hand-held ski holder device.

**[0005]** The installation of the different parts has to be done in stages; first the ring is placed around the skis to hold them together, and then the strap is placed over the ring.

**[0006]** The manual transport of skis and poles is cumbersome, unsafe, and negates the operability of at least one hand for any need that may arise during the manual transport of personal ski equipment.

## Summary

**[0007]** The present invention aims to resolve one or more of the drawbacks outlined above by means of a transport device for an elongate and thin body, such as skis, as defined in the claims.

**[0008]** The device for transporting an elongated, thin object such as skis and/or a snowboard comprises a hollow device body comprising an upper passage opening opposite a lower passage opening. The length of the device body is equal to or greater than the length of the ski bindings.

**[0009]** A first enclosed cord is configured to slide within a first hem, along the upper passage opening, and a second hem, along the lower passage opening, such that a portion of the first enclosed cord is disposed externally to the device body, parallel to the greater length of a first side of the device body.

**[0010]** A second enclosed cord is configured to slide within the first hem, along the upper passage opening, and the second hem, along the lower passage opening, such that a portion of the second enclosed cord is disposed externally to the device body parallel to the greater length of a second opposing side of the device body.

**[0011]** In order to use the transport device, several steps have to be carried out: placing the skis face to face on the bottom sliding sides, as they are usually placed after use; in this arrangement, one of the ends of the skis placed face to face are inserted through a passage open-

ing, e.g. the lower passage opening, until same ends protrude through the opposite upper passage opening of the hollow device body; the device body is made to slide from the one end to the opposite end, until the ski bindings are enveloped or encircled by the device body, and then the first and second cord portions outside the device body are pulled simultaneously to produce a simultaneous strangulation of the upper and lower openings resulting in a free outer portion of the first and second cords, which may be placed simultaneously over both shoulders of a user to facilitate the transport of the ski boards in a comfortable manner, leaving the user's hands free.

**[0012]** Additionally, the simultaneous strangulation of the upper and lower openings forms a contour of reduced diameter which retains a protruding portion of the ski boards corresponding to the ski bindings inside the device body and keeps the skis tightly against each other so that they do not separate during transport.

**[0013]** It is worth noting that both the placing of the skis into the transport device and the release of the skis from the transport device can be done while wearing ski gloves.

**[0014]** The skis carrying device is easily foldable and can be stored in a trouser pocket, ski suit pocket, or anywhere else, e.g. on the user's back where it goes unnoticed, does not cause discomfort, and/or does not run the risk of being accidentally lost while not in use.

**[0015]** Both the upper and lower openings have a diameter adjustable to the ski boards and/or their corresponding poles, their circumference being fixed by strangulating the openings by means of the first and second cords of the transport device.

**[0016]** A first shoulder pad can be disposed on the free portion of the first strap and, similarly, a second shoulder pad can be disposed on the free portion of the second strap to make carrying more comfortable and provide an equal distribution of the weight of the ski boards between both shoulders of the user.

**[0017]** A first inner pocket, comprising a first insertion opening, can be attached by a portion of the first opening to the first hem of the device body, wherein the first inner pocket is sized to contain the transport device in its entirety. The first inner pocket includes a first closing element of the zip type, a mechanical fastening with woven hooks and loops, or the like, so that, once the transport device has been inserted into the first inner pocket, the first closing element closes to form a small package that can be easily transported or stored.

## 50 Brief description of the figures

**[0018]** A more detailed explanation is given in the following description and is based on the attached figures:

55 Figure 1 shows an elevation view of a ski board transport device in the resting position; and

Figure 2 shows in an elevation view of a first cord

and a second cord of the transport device.

## Description

**[0019]** Figure 1 shows a transport device 11 for an elongate and thin object such as skis and snowboards, wherein the transport device 11 comprises a hollow device body 12 comprising an upper passage opening 13 arranged opposite a lower passage opening 14. The length of the device body 12 is equal to or greater than the length of the ski board bindings.

**[0020]** The upper passage opening 13 is arranged opposite the lower passage opening 14 and orthogonal to a longitudinal axis of symmetry of the device body 12. The upper passage opening 13 comprises a first hem 15 along the perimeter of the upper passage opening 13; and the lower passage opening 14 comprises a second hem 16 along the perimeter of the lower passage opening 14.

**[0021]** The first hem 15 comprises a first through hole 28 arranged at one end of the first hem 15 on a first side 22 and a second through hole 29 arranged at an opposite end of the first hem on a second side 23.

**[0022]** The second hem 16 comprises a third through hole 31 arranged at one end of the second hem 16 over the first side 28 and a fourth through hole 32 arranged at an opposite end of the second hem over the second side 23.

**[0023]** Figures 1 and 2 show a first cord 17 in the form of a closed circumference, configured to slide inside the first hem 15 along the upper passage opening 13, exit through the first through hole 28, run externally along the first side 22 and enter through the third through hole 31 to slide inside the second hem 16.

**[0024]** Similarly, a second cord 18, in the form of a closed circumference, is configured to slide inside the first hem 15, exit through the second through hole 29, run externally along the second side 23 and enter through the fourth through hole 32 to slide inside the second hem 16.

**[0025]** In summary, a portion of the first closed cord 17 and a portion of the second closed cord 18 are disposed externally to the device body 12.

**[0026]** The closed first cord 17 and second cord 18 are made of a flexible material suitable for being placed over the shoulders of a user of the carrying device 11, such as a skier.

**[0027]** The body 12 of the device is made of a flexible, strong and wind-cutting material so that a skier can arrange the body 12 of the device on his chest, as a front bib, to cut the wind while skiing down a slope.

**[0028]** In general, the transport device 11 is configured to transport the at least one elongated and narrow or thin lightweight object such as ski boards, ski poles, a snowboard, golf clubs, or the like.

**[0029]** To insert one end of the elongated objects through one of the passage openings to the same end through the opposite passage opening of the transport

device 11, several steps have to be carried out, as follows: placing the ski boards face to face on their bottom sliding sides, as they are usually placed after use; in this arrangement one of the ends of the ski boards is inserted through a passage opening, e.g. the lower passage opening 14, until the same end protrudes through the opposite upper passage opening 13 of the hollow device body 12; the device body 12 slides from one end to the opposite end, until the ski board bindings are enveloped or encircled by the device body 12; and then the portions of the first and second cords 17, 18 outside the device body 12 are simultaneously pulled to produce a simultaneous strangulation of the upper opening 13 and the lower opening 14 resulting in a free outer portion of the first and second cords 17, 18 that may be placed simultaneously on both shoulders of a skier.

**[0030]** Additionally, the simultaneous strangulation of the upper mouth 13 and the lower mouth 14 forms a contour of reduced diameter to retain a protruding portion of the ski boards inside the device body 12, namely the area of the ski board bindings, and keeps the sliding surfaces of the ski boards tight against each other, preventing them from separating during transport.

**[0031]** Both the upper opening 13 and the lower opening 14 have a diameter adjustable to the ski boards and/or their corresponding poles, their perimeter being fixed by strangulating the openings 13, 14 by means of the first and second cords 17, 18 of the transport device 11.

**[0032]** A first shoulder pad with or without padding may be arranged over the free portion of the first cord 17 and, similarly, a second shoulder pad with or without padding may be arranged over the free portion of the second cord 18 to provide a desired degree of comfort for the user when carrying the carrying device 11 loaded with objects to be carried on the shoulders.

**[0033]** A first inner pocket 19, comprising a first insertion opening 21, is attachable to a section of the first hem 13 of the device body 12; that is, a lip of the first opening 21 is attached to a section of the first hem 13 of the device body 12; wherein the first inner pocket 19 is sized to contain within the first inner pocket 19 the transport device 11 in its entirety. The first inner pocket 19 includes a first closing element of the zip type, a mechanical fastening with woven hooks and loops, or the like, so that, once the transport device 11 has been inserted into the first inner pocket 19, the first closing element closes to form a small package that can be easily transported or stored.

**[0034]** The first cord 17 and the second cord 18 of the transport device 11 are long enough to hold and tighten over both the shoulders and back of the skier, so that the ski board transport device 11 is arranged vertically along the skier's back. This means that the skier's hands remain completely free and the space occupied is kept to a minimum as the ski boards are arranged parallel to the maximum dimension of the user, i.e. the skier's height.

**[0035]** A plurality of retainers 24, 25, 26 are regularly or randomly distributed between the first side 22 and the second side 23 on the rear face of the transport device

11. The retainers 24, 25, 26 are retainers having the same shape or different shapes such as rings, carabiners, hooks, or the like.

[0036] A second outer pocket 27 is located on the rear face of the transport device 11 between the first side 22, the second side 23, the upper passage opening 13 and the lower passage opening 14, where various objects such as gloves, etc. can be inserted. 5

[0037] The second outer pocket 27 also includes a second closing element such as a zipper, a mechanical fastener with woven hooks and loops, or the like, such that once the object has been introduced inside the second outer pocket 27, the second closing element is closed, and the object remains stored until the user of the transport device 11 needs to use the object stored inside the second outer pocket 27. 10 15

## LIST OF NUMERICAL REFERENCES

[0038]

11	transport device
12	device body
13	upper passage opening
14	lower passage opening
15	first hem
16	second hem
17	first cord
18	second cord
19	first inner pocket
21	first opening
22	first side
23	second side
24, 25, 26	retainers
27	second outer pocket
28	first through hole
29	second through hole
31	third through hole
32	fourth through hole

## Claims

1. A device for transporting an elongate and thin object; **characterised in that** the transport device (11) comprises a body (12) of a flexible device with an upper passage opening (13) arranged opposite a lower passage opening (14) arranged orthogonal to a longitudinal axis of symmetry of the body (12) of the flexible device; wherein the upper passage opening (13) comprises a first hem (15), along the perimeter of the upper passage opening (13), open at both ends of the first hem (15); wherein the lower passage opening (14) comprises a second hem (16), along the perimeter of the lower passage opening (14), open at both ends of the second hem (16); wherein a first closed cord (17) is configured to slide inside the first hem (15) of the second hem (16) and runs

externally along a first side (22) of the body (12) of the device; wherein a second closed cord (18) is configured to slide inside the first hem (15), and of the second hem (16), and runs externally along a second side (23) of the body (12) of the device; so that, by simultaneously pulling the first cord (17) and the second cord (18) a simultaneous strangulation of the upper opening (13) and the lower opening (14) is produced, resulting in a free outer portion of the first cord (17) and second cord (18) to be arranged on the shoulders of a skier.

2. Device according to claim 1, wherein the upper passage opening (13) comprises the first hem (15) along the perimeter of the upper passage opening (13), wherein the first hem (15) comprises a first through hole (28) disposed at one end of the first hem (15) on a first side (22) and a second through hole (29) disposed at an opposite end of the first hem (15) on a second side (23). 20
3. Device according to claim 1, wherein the bottom passage opening (14) comprises the second hem (16) along the perimeter of the lower passage opening (14), wherein the second hem (16) comprises a third through hole (31) arranged at one end of the second hem (16) on the first side (22) and a fourth through hole (32) arranged at an opposite end of the second hem (16) on the second side (23). 25 30
4. Device according to claims 2 and 3, wherein the first closed cord (17) is configured to slide inside the first hem (15), exit through the first through hole (28), run externally along the first side (22), and enter through the third through hole (31) to slide inside the second hem (16). 35
5. Device according to claims 2 and 3, wherein the second closed cord (18) is configured to slide inside the first hem (15), exit through the second through hole (29), run externally along the second side (23), and enter through the fourth through hole (32) to slide inside the second hem (16). 40
- 45 6. Device according to any one of claims 4 or 5, wherein a portion of the first closed cord (17) and a portion of the second closed cord (18) are disposed externally to the body (12) of the device.
- 50 7. Device according to claim 6, wherein a first padded or unpadded shoulder strap is placeable over the free portion of the first cord (17) and a second padded or unpadded shoulder strap is placeable over the free portion of the second cord (18).
- 55 8. Device according to any one of the preceding claims, wherein a lip of a first opening (21) a first inner pocket (19) is attachable along a portion of the first hem (13)

of the body (12) of the device, and is sized to contain within the first inner pocket (19) the carrying device (11) in its entirety.

9. Device according to claim 6, wherein the first inner pocket (19) comprises a first closing element. 5

10. Device according to claim 9, wherein the first closing element is of the zip fastener type, woven hook and loop fastener type, or the like. 10

11. Device according to any one of the preceding claims, wherein a second outer pocket (27) is locatable on the rear face of the transport device (11) between the first side (22), the second side (23), the upper 15 passage opening (13) and the lower passage opening (14).

12. Device according to claim 11, wherein the second outer pocket (27) comprises a second closing element. 20

13. Device according to claim 12, wherein the second fastening element is of the zip fastener type, woven hook and loop fastener type, or the like. 25

14. Device according to any one of the preceding claims, wherein at least one retainer (24, 25, 26) is distributable between the first side 22 and the second side 23 on the rear face of the transport device (11). 30

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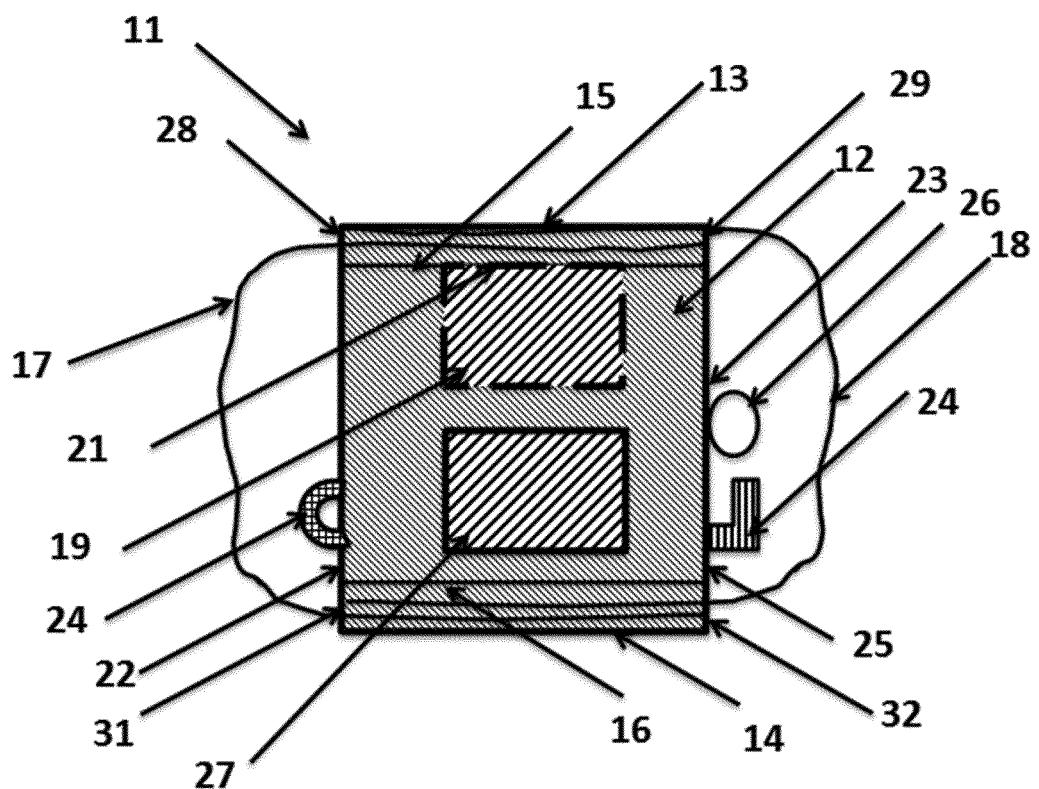


Fig. 1

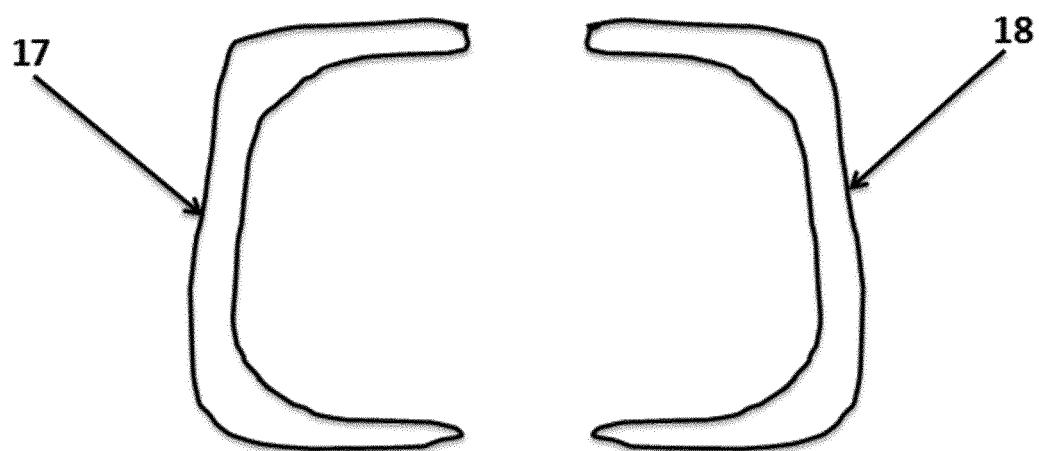


Fig. 2

<b>INTERNATIONAL SEARCH REPORT</b>		International application No. PCT/ES2019/070818
5	<p><b>A. CLASSIFICATION OF SUBJECT MATTER</b></p> <p><b>A63C11/00</b> (2006.01)</p> <p>According to International Patent Classification (IPC) or to both national classification and IPC</p>	
10	<p><b>B. FIELDS SEARCHED</b></p> <p>Minimum documentation searched (classification system followed by classification symbols)</p> <p>A63C</p>	
15	<p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p>	
20	<p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)</p> <p>EPODOC, INVENES, WPI</p> <p><b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b></p>	
25	Category*	Citation of document, with indication, where appropriate, of the relevant passages
30	X	US 4792073 A (JACOBER JEFFREY M) 20/12/1988, description; figures 1 - 4.
35	Y	US 4792073 A (JACOBER JEFFREY M) 20/12/1988,
40	Y	US 4518107 A (AMOS JACQUELYN V) 21/05/1985, description; figures 1 - 5.
45	A	FR 1332131 A 16/12/1963, description; figure 1.
50	A	WO 9324032 A1 (ADVANCED PRO FORMANCE INC) 09/12/1993, description; figures 1 - 9.
55	A	US 5277305 A (SCIORTINO KENNETH) 11/01/1994, description; figures 1 - 3.
40	<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.	
45	<p>* Special categories of cited documents:</p> <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 documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>	
50	Date of the actual completion of the international search 10/03/2020	Date of mailing of the international search report <b>(10/03/2020)</b>
55	Name and mailing address of the ISA/  OFICINA ESPAÑOLA DE PATENTES Y MARCAS Paseo de la Castellana, 75 - 28071 Madrid (España) Facsimile No.: 91 349 53 04	Authorized officer J. Moreno Rodriguez  Telephone No. 91 3495556

INTERNATIONAL SEARCH REPORT		International application No.	
Information on patent family members		PCT/ES2019/070818	
5	Patent document cited in the search report	Publication date	Patent family member(s)
10	US4792073 A	20.12.1988	NONE
15	US4518107 A	21.05.1985	NONE
20	FR1332131 A	16.12.1963	NONE
25	WO9324032 A1	09.12.1993	US5350096 A AU4404893 A
30	US5277305 A	11.01.1994	NONE
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45			
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Form PCT/ISA/210 (patent family annex) (January 2015)