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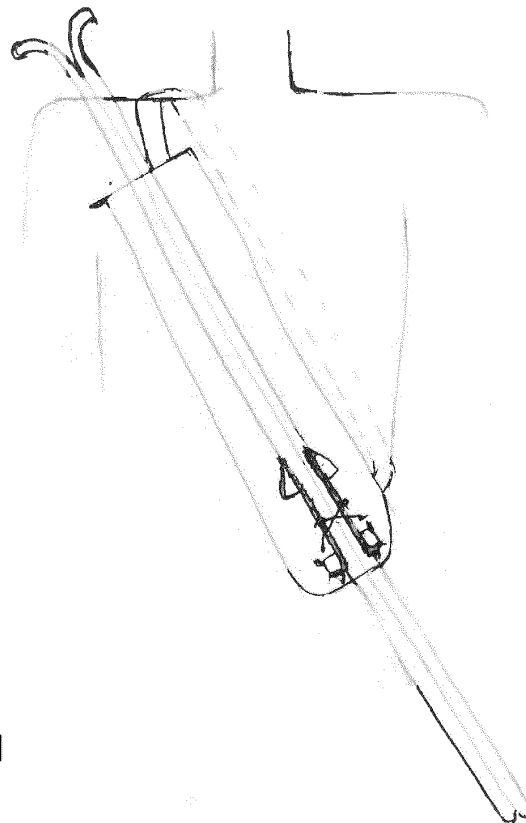
(54) **DIAGONAL SKI CARRIER**

(57) Provided is the diagonal ski carrier that is suitable for carrying skis. Skis are heavy and inconvenient when carried by hand. The presented diagonal ski carrier is appropriate for users of all ages, sizes, fitness and experience level.

When the skis are not in use, they can be placed in the diagonal ski carrier and carried across the body to

free the hands to perform other tasks.

The diagonal ski carrier comprises of an adjustable body strap attached to a bindings sack in which the skis can be inserted. The strap of diagonal ski carrier can be buckled securely and worn across the body so that the skis in the bindings sack rest comfortably diagonally across the back of the individual.



**Fig. 1**

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## Description

**[0001]** The present subject matter relates to the invention of a ski carrier that is wearable diagonally across the body.

### [USE AND STORAGE OF THE DIAGONAL SKI CARRIER]

**[0002]** The diagonal ski carrier is suitable for individuals of all ages, sizes, and experience level. The carrier is used for carrying one pair of skis. When the skis are not in use, i.e. not bound to the ski boots, they can be placed in the diagonal ski carrier and carried across the body so that the skis rest comfortably on the back of the individual to free the hands.

**[0003]** Before entering the gondola, the individual will easily remove the skis from the bindings sack, place the skis in the gondola rack or holder, and store the lightweight ski carrier in a pant or jacket pocket.

### [BACKGROUND OF THE INVENTION]

**[0004]** The present subject matter relates to the invention of a diagonal ski carrier that is wearable across the body to free the hands.

**[0005]** Skiing is a favorite recreational sporting activity for millions of people during the winter months. As its popularity and accessibility increases to a broader population, multitasking, the need to accommodate a wider range of people with physical disabilities, limitations, and need for comfort is increasing.

**[0006]** There have been inventions to make the ski boots more comfortable when walking by adding ski or walk mode, making them more padded and flexible, also, the jackets to have pocket on the forearm for the ski pass to be easily scanned, as well as Velcro strap that binds the skis together when not in use. These attempt to increase comfort for when the skier is not actually skiing on the slopes, which for the most part they do, however, they fall short of addressing the real issue, which is the weight and bulkiness of the skis themselves. Skis are designed and intended to be used on the slopes, therefore a practical solution for carrying the weighty and cumbersome skis to the slopes is needed. This invention provides such a solution.

### [DRAWBACKS WITH CURRENT METHOD]

**[0007]** The current method for carrying skis have the following drawbacks. First of all, skis are long, heavy, and cumbersome to carry. In addition to clasping them together at the bindings, they sometimes need to be held together by a strap so they don't pull apart.

**[0008]** Secondly, it's difficult to multi-task when carrying the skis because purchasing tickets for the ski lifts, public transport, getting snacks, and such the like, skiers must find a wall or stand or something to rest the skis

against to free their hands.

**[0009]** Thirdly, children find the task of carrying their own skis very challenging. Small children generally do not have the physical strength to carry their own skis for an extended period of time. They have difficulties walking in the ski boots and on the snow, this means an adult must carry the skis in addition to their own ski gear and poles.

**[0010]** Fourthly, after putting on all the ski gear including helmet and ski shoes, walking from the slippery parking lot to the entry of the some ski resorts can range in distance from a few meters to a few hundred meters. The skiers would have carried the heavy on his or her shoulder or in the hand the entire duration. After a long day on the slopes, the skiers must once again carry the heavy skis in their hands or on their shoulders.

**[0011]** Fifthly, individuals who make use of available public transport when commuting to and from the ski resorts, face challenges of walking long distances with the skis on their shoulders. The same is true for individuals who enjoy a single day trip to the slopes and return home after a day of skiing.

**[0012]** Sixthly, the skis have filed edges to help the skis glide through the snow, however, these are dangerous for children and new skiers because they can injure the palm of the hands if the skis are not handled carefully.

**[0013]** And finally, skis should not be placed on rough surfaces because the skis could get scratched, and damages can occur to the surface or edges that make contact with the snow. Dents or deep scratches will negatively affect the performance of the skis and could put the skier in danger.

### [SOLUTION]

**[0014]** It is the purpose of the invention to create a ski carrier to overcome and solve the above mentioned drawbacks.

**[0015]** The diagonal ski carrier is lightweight and strong enough to carry one pair of skis. The ski carrier is wearable across the body and therefore the weight of the skis is distributed evenly across the back of the body, instead of pressing into the individual's shoulders.

**[0016]** Another purpose of the present invention is to provide skiers the freedom of having their hands free.

**[0017]** The final solution of the present invention is to provide freedom of movement to skiers. Skis are generally sized to be a few centimeters shorter than the height of the skier, therefore the optimal position of the skis on the back is a diagonal position. This will ensure the skis do not interfere with head range of motion, and will not impede on the walking mobility of the skier because the skis will not hit the legs while walking because they will be off to the side.

### [DESCRIPTION OF THE DRAWINGS]

**[0018]** A referenced drawing shows the invention of

the diagonal ski carrier, in which:-

Fig. 1 shows the ski carrier with a pair of skis across the body of the skier,

Fig. 2 shows the detailed components of the ski carrier

Fig. 2 (1) Drawstring: This drawstring tightly holds the skis in place so that they function as one unit in the bindings sack. The skier is able to tighten and loosen the drawstring as desired. This drawstring replaces the need for a separate Velcro band to bind the skis.

Fig. 2 (2) Sewing of strap to the bindings sack: For maximum comfort and stability, the shoulder strap is securely sewn to the bindings sack.

Fig. 2 (3) Bindings sack: This sack encompasses the bindings of the skis and is sewn along the shoulder so that the skis can rest against the body without moving around.

Fig. 2 (4) Smooth protective layer: At the base of the bindings sack is a smooth layer of material that will not scratch the ski edges or base of the bindings while in the sack.

Fig. 2 (5) Hole: At the base of the bindings sack is a hole to allow the back ends of the skis to pass through. This hole also allows for melted ice and snow to be eliminated from the bindings sack.

Fig. 2 (6) Adjusting strap buckle: For the shoulder strap to be able to fit various body types and sizes, the shoulder strap is adjustable allowing the individual to adjust the length of the shoulder strap to the desired comfort. Another feature of the buckle is that it easily opens and closes, allowing the individual to quickly attach and detach the carrier to and from the body.

Fig. 2 (7) Shoulder strap: This strap rests comfortably diagonally against the body from the shoulder to the waist or hip. The strap is sturdy enough to support the weight of the skis and distributes it across the body providing a good center of gravity and balance to the individual.

2. A ski carrier according to Claim 1 where the bindings sack comprises of a drawstring that tightly holds the skis in place so that they function as one unit.

3. A ski carrier defined in Claims 1 and 2 wherein the bindings sack has a hole at the base that allows the back ends of the skis and melted snow/ice to pass through.

4. A ski carrier according to Claim 1 wherein said adjustable shoulder strap comprises of a buckle that easily opens and closes.

5. A ski carrier according to Claims 1 and 4 wherein said shoulder strap can be adjusted to torso measurements of the individual.

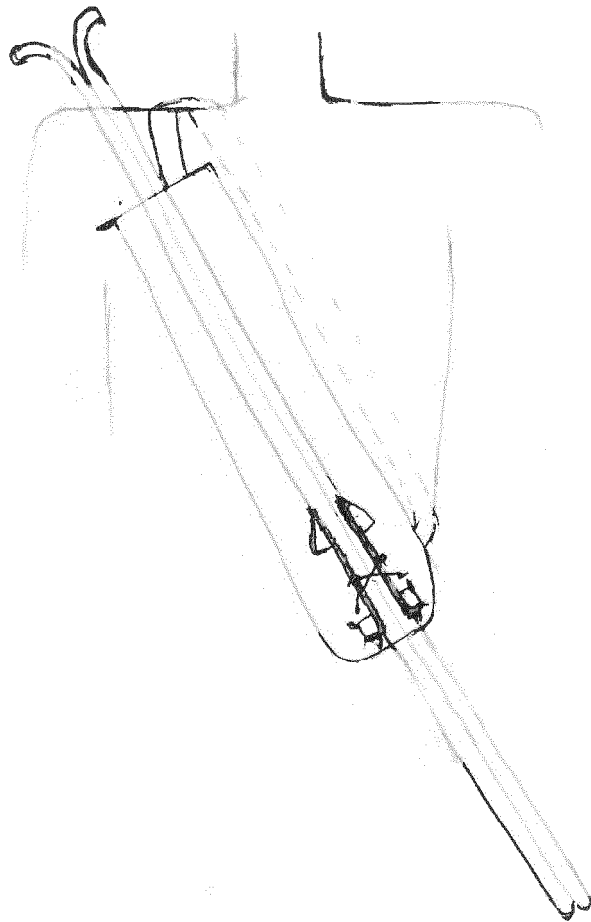
6. A ski carrier defined in Claim 6 wherein the adjustable shoulder strap buckle is used to quickly attach and detach the carrier to and from the body.

7. A ski carrier defined in Claims 1 to 6 wherein the individual carries the skis without using the hands.

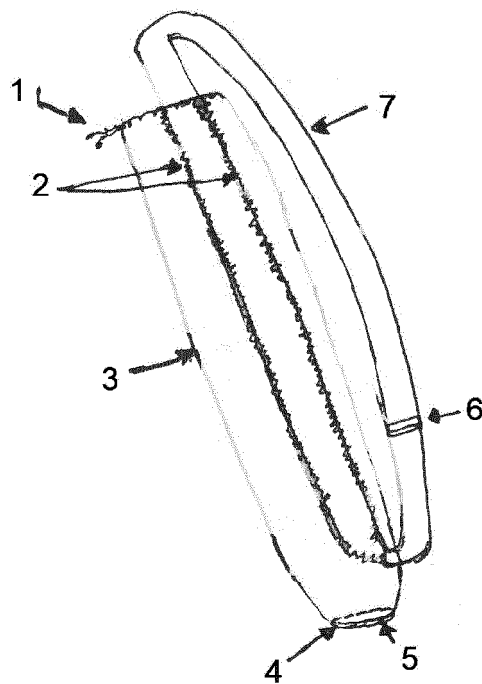
8. A ski carrier according to Claim 7 wherein the carrier is suitable to carry one pair of skis.

## Claims

1. A ski carrier comprising of an adjustable shoulder strap worn from the shoulder to the waist diagonally against the torso; attached to a bindings sack.



**Fig. 1**



**Fig. 2**



## EUROPEAN SEARCH REPORT

Application Number

EP 22 19 4992

## DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2021/207696 A1 (PURE MOUNTAIN FUN LLC [US]) 14 October 2021 (2021-10-14)	1-3	INV. A63C11/02
A	* paragraphs [0020] - [0022]; figure 1 * -----	4	
X	US 4 792 073 A (JACOBBER JEFFREY M [US]) 20 December 1988 (1988-12-20)	1	
A	* column 4, line 35 - column 5, line 26; figures 1,3 * -----	2	
X	US 5 139 187 A (FOWLER DAVID W [US]) 18 August 1992 (1992-08-18)	1-8	TECHNICAL FIELDS SEARCHED (IPC)  A63C
	* column 2, line 54 - column 3, line 31; figures 1,2 * -----		

The present search report has been drawn up for all claims

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Place of search

Munich

Date of completion of the search

28 February 2023

Examiner

Murer, Michael

## CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone  
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 A : technological background  
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ANNEX TO THE EUROPEAN SEARCH REPORT  
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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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28-02-2023

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	<b>WO 2021207696 A1</b>	<b>14-10-2021</b>	<b>NONE</b>	
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82