

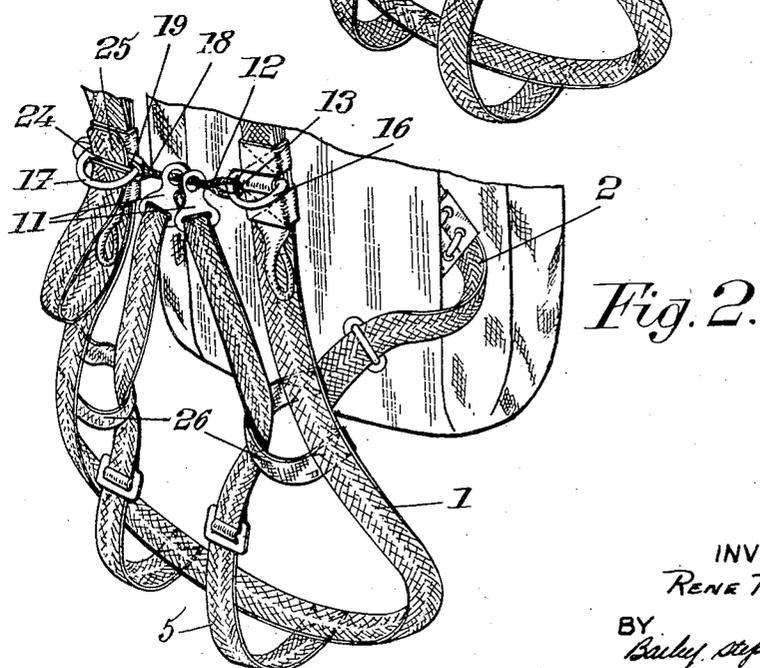
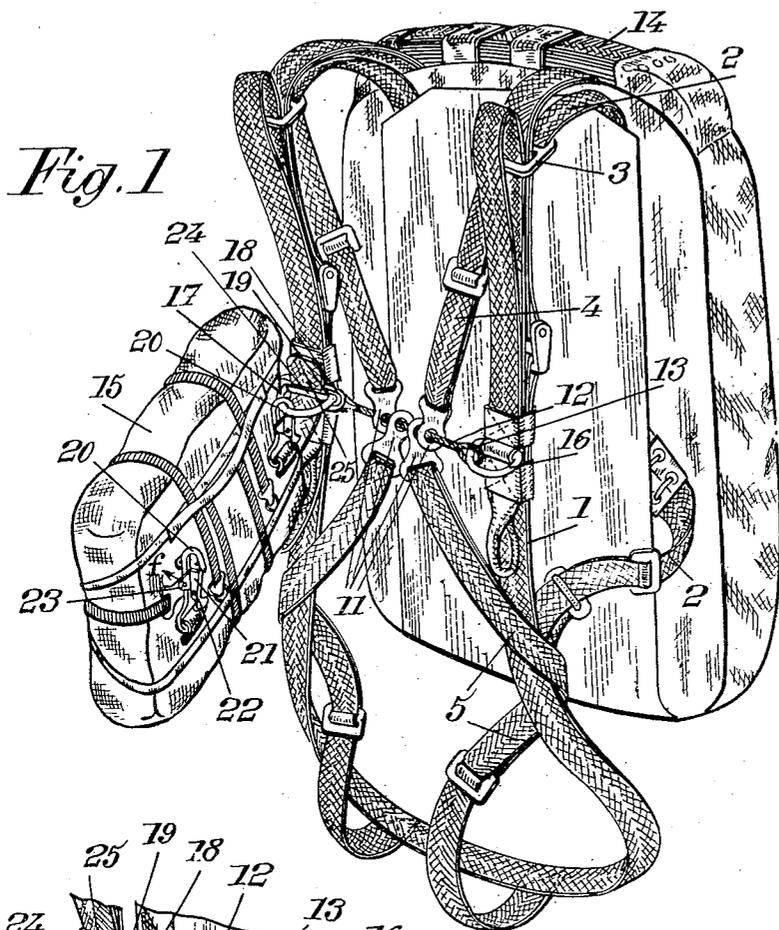
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PARACHUTE RIGGING OR HARNESS

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# UNITED STATES PATENT OFFICE

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## PARACHUTE RIGGING OR HARNESS

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The present invention relates to parachute riggings or harnesses.

Its chief object is to provide a device of this kind which is better adapted to meet the requirements of practice than those used up to now, especially concerning simplicity of construction.

It consists chiefly in interconnecting lateral harness elements, this expression including leg straps and shoulder straps, through means, such as a cable or a rod secured to the main straps and passing through rings or the like carried at the ends of said lateral elements.

Preferred embodiments of my invention will be hereinafter described with reference to the accompanying drawings, given merely by way of example and in which:

Fig. 1 shows, in perspective view, the general arrangement of a parachute harness with a back pack and a lap pack, according to the invention;

Fig. 2 similarly shows a harness of the same type, according to another embodiment of the invention.

The harness includes a plurality of elements of the usual type, for instance:

A main strap or suspension strap 1, forming a sling so as to extend at the front of and under the parachutist's body;

Back and shoulder straps 2, connected to the main strap 1 through any suitable means, such for instance as buckles 3, these straps 2 crossing each other behind the parachutist's back and carrying the back pack 14;

Chest straps 4 forming extensions of the shoulder straps;

Leg straps 5;

And possibly a belt or other chest elements.

According to my invention, at least two of the lateral strap elements, i. e. of the shoulder and leg straps 4, 5 are interconnected through at least one part, such as a cable, rod or the like, secured to the main strap or straps.

Thus, as shown by Figs. 1 and 2, this part is constituted by a cable 12, permanently fixed at one end to the harness main strap at 13, for instance by means of a D ring 16, while the other end is also fixed to the harness but in a releasable manner, said cable being adapted to pass through rings or buckles 11 carried by the ends of the leg and/or shoulder strap elements so as to interconnect them.

Cable 12 might of course be replaced by any other equivalent means, for instance by a rod hinged to the harness at 13.

In the construction shown by the drawing, the second mentioned end 18 of cable 12 forms

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an elongated loop or eye 19 adapted to engage on a D ring 17.

This loop 19 is held on ring 17 by a strap 25 engaged between said loop and a small bar 24 carried by ring 17.

Cable 12 is further held secured to strap branches 1 by the spring hooks 20 through which the lap pack is secured to rings 16 and 17.

In the embodiment of Fig. 1, the leg straps 5 pass behind and about the main strap 1, whereas, in the embodiment of Fig. 2, they pass through loops 26 sewn on strap 1.

Such a harness has the following advantages:

When the lap pack is hooked into rings 16 and 17, the harness is perfectly well secured on the parachutist's body.

The lap pack can however be easily released.

After release of said lap pack, the harness is still held in position by strap element 25, which prevents any blunder from the parachutist.

After landing, to get free from the harness, the parachutist has only to pull on strap 25 to release loop 19.

This fixation of the leg and/or shoulder straps is particularly simple and inexpensive.

In a general manner, while I have, in the above description, disclosed what I deem to be practical and efficient embodiments of my invention, it should be well understood that I do not wish to be limited thereto as there might be changes made in the arrangement, disposition and form of the parts without departing from the principle of the present invention as comprehended within the scope of the accompanying claims.

What I claim is:

1. A parachute harness including a suspension strap forming two branches substantially parallel to each other and arranged to extend in front of the parachutist's body, at least two lateral strap elements each attached at one end to said suspension strap, a ring carried by the other end of each of said lateral strap elements, and a part adapted to pass through both of said rings, said part being fixed at both ends thereof to said suspension strap branches, respectively.

2. A parachute harness which comprises a suspension strap forming two branches substantially parallel to each other and arranged to extend in front of the parachutist's body, at least two lateral strap elements each attached at one end to said suspension strap, a ring carried by the other end of each of said lateral strap elements, a cable adapted to pass through both of said rings, one end of said cable being permanently fixed to one of said suspension strap branches, and means

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for releasably securing the other end of said cable to the other suspension strap branch.

3. A parachute harness according to claim 2 in combination with a lap pack and means for securing said lap pack to said suspension strap arranged to lock said second mentioned cable end in secured position on the second mentioned suspension strap branch.

4. A parachute harness which comprises a suspension strap forming two branches substantially parallel to each other and arranged to extend in front of the parachutist's body, two leg straps and two shoulder straps each attached at one end to said suspension strap, a ring carried by the other end of each of said leg straps and shoulder straps, a cable adapted to pass through all of said rings, one end of said cable being permanently fixed to one of said suspension strap branches, and means for releasably securing the other end of said cable to the other suspension strap branch.

5. A parachute harness according to claim 4 in which said leg straps are arranged to pass behind said suspension strap branches, respectively.

6. A parachute harness according to claim 4 further including loops carried by said suspension strap branches, the leg straps passing through said last mentioned loops.

7. A parachute harness which comprises a suspension strap forming two branches substantially parallel to each other and arranged to extend in front of the parachutist's body, at least two lateral strap elements each attached at one end

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to said suspension strap, a ring carried by the other end of each of said lateral strap elements, a cable adapted to pass through both of said rings, one end of said cable being permanently fixed to one of said suspension strap branches, a ring carried by the other suspension strap branch, an elongated loop at the other end of said cable adapted to engage on said last mentioned ring, and means for locking said loop in engaged position on said last mentioned ring.

8. A parachute harness which comprises a suspension strap forming two branches substantially parallel to each other and arranged to extend in front of the parachutist's body, at least two lateral strap elements each attached at one end to said suspension strap, a ring carried by the other end of each of said lateral strap elements, a cable adapted to pass through both of said rings, one end of said cable being permanently fixed to one of said suspension strap branches, a ring carried by the other suspension strap branch, an elongated loop at the other end of said cable adapted to engage on said last mentioned ring, a small bar extending across said last mentioned ring parallel to the plane of said loop engaged therein, and a strap element carried by said harness arranged to engage between said bar and said loop, to lock said loop in engaged position on said ring.

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No references cited.