

(11) **EP 2 724 752 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **09.12.2015 Bulletin 2015/50**

(51) Int Cl.: **A62B 35/00** (2006.01)

A62B 35/04 (2006.01)

(43) Date of publication A2: 30.04.2014 Bulletin 2014/18

(21) Application number: 13190838.6

(22) Date of filing: 11.12.2006

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 06820485.8 / 2 091 615 (71) Applicant: Checkmate Limited Sheerness Kent ME12 1PZ (GB)

(72) Inventor: Dawson, Brian
Carrickfergus, Co Antrim BT38 8QL (GB)

(74) Representative: Dummett Copp LLP 25 The Square Martlesham Heath Ipswich IP5 3SL (GB)

(54) Fall arrest harness

(57)The present invention relates to a fall arrest harness for persons working at height, and in particular a fall arrest harness for reducing the risk of suspension trauma. The fall arrest harness comprises a pair of leg straps (12,13) for encircling the thighs of a wearer, a first and a second shoulder strap (5,4), a lanyard connection member (18) separately connected to the shoulder straps via one or more extension straps (16,17), and a rear section that extends between the leg straps and the shoulder straps. The rear section has a seat portion (2) and a back portion (3). The first and second shoulder straps extend from, respectively, left and right side regions of the seat portion (2) and over left and right shoulders to an upper region of the back portion (3). The lanyard connection member (18) is releasably attachable to the back portion (3) at a dorsal position by releasable securing means (21,22) and is detached from the back portion (3) when a tensile force applied to the lanyard connection member (18) exceeds a predetermined threshold. In the event of a fall the lanyard connection member (18) separates from the back portion, causing the one or more extension straps (16,17) and the lanyard connection member (18) to move automatically to a sternal suspension position to suspend the wearer from both shoulder straps in a supine position with the weight of the wearer being borne by the seat portion (2) and the back portion (3) of the rear section and being transferred to the lanyard connection member (18) via both shoulder straps and the one or more extension straps (16,17) with none of the weight being transferred by the leg straps.

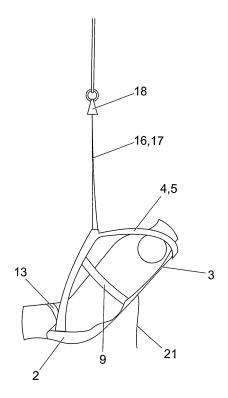


Fig. 5

EP 2 724 752 A3



EUROPEAN SEARCH REPORT

Application Number EP 13 19 0838

| | DOCUMENTS CONSID | ERED TO BE RELEVANT | | | |
|---|---|--|--|------------------------------------|--|
| Category | Citation of document with ir of relevant passa | ndication, where appropriate, ages | Releva to claim | | |
| A | 3 August 2006 (2006 * figure 1 * | , [0061] - [0062], | 1-15 | INV. A62B35/00 A62B35/04 | |
| A | 23 April 2002 (2002 * figures 5-11 * | TZL PAUL [FR] ET AL) -04-23) - column 3, line 39 * | 1-15 | | |
| A | FR 2 743 303 A1 (SU 11 July 1997 (1997- * figures 1-2,4 * * page 4, lines 13- * page 7, lines 1-5 | 07-11) 19 * | 1-15 | | |
| | | | | TECHNICAL FIELDS SEARCHED (IPC) | |
| | | | | A62B | |
| | The present search report has I | peen drawn up for all claims | | | |
| | Place of search | Date of completion of the search | | Examiner | |
| | The Hague | 4 November 2015 | 4 November 2015 Pau | | |
| CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document | | E : earlier patent do after the filing do ner D : dooument cited L : dooument cited | T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document oited for other reasons &: member of the same patent family, corresponding document | | |

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 13 19 0838

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-11-2015

| 1 | 0 | |
|---|---|--|
| | | |

| Patent document cited in search report | | Publication date | | Patent family member(s) | | Publication date |
|---|----|------------------|--|---|---------------------------------|--|
| US 2006169534 | A1 | 03-08-2006 | US US | 2006169534 2012018248 | | 03-08-2006 26-01-2012 |
| US 6374946 | B1 | 23-04-2002 | CA DE DE EP ES FR JP US | 60020780 1068880 2242591 2796297 | D1 T2 A1 T3 A1 A | 16-01-2001 21-07-2005 16-03-2006 17-01-2001 16-11-2005 19-01-2001 27-02-2001 23-04-2002 |
| FR 2743303 | A1 | 11-07-1997 | NONE | | | |

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82