

Title (en)

PNEUMATIC SUPPORT DEVICE AND CONTROL SYSTEM

Title (de)

PNEUMATISCHE STÜTZVORRICHTUNG UND STEUERUNGSSYSTEM

Title (fr)

DISPOSITIF DE SUPPORT PNEUMATIQUE ET SYSTÈME DE COMMANDE

Publication

EP 3228294 A1 20171011 (EN)

Application

EP 16305418 A 20160408

Priority

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Abstract (en)

The present invention relates to a support device for supporting the body of a person, the support device comprising: a top layer comprising an inflatable cell; a bottom layer, arranged to support the top layer, the bottom layer comprising an inflatable cell; and a pneumatic inflation and pressure regulation device comprising a controller and a compressor, pneumatically coupled to the at least one inflatable cell of the top layer and to the at least one inflatable cell of the bottom layer via a manifold. The manifold comprises: a plurality of isolation valves configured to enable the top layer and the bottom layer to be isolated from each other and from the compressor; at least one exhaust valve pneumatically coupled to the top layer; and at least one exhaust valve pneumatically coupled to the bottom layer. The controller is configured to: determine if there is an air leak from the support device; upon determining an air leak: determine the layer which has a leak; isolate the layer which has the leak from the other layer and from the compressor; and open the exhaust valve to the layer which has the leak.

IPC 8 full level

A61G 7/057 (2006.01)

CPC (source: EP)

A61G 7/05769 (2013.01); **A61G 2203/34** (2013.01)

Citation (applicant)

- EP 0676158 A1 19951011 - SUPPORT SYSTEMS INTERNATIONAL [FR]
- EP 1056372 A1 20001206 - HILL ROM IND SA [FR]
- US 8598893 B2 20131203 - CAMUS GILLES [FR]

Citation (search report)

- [Y] GB 2327874 A 1990210 - HUNBLEIGH TECHNOLOGY PLC [GB]
- [Y] WO 8606624 A1 19861120 - MEDISCUS PROD LTD [GB]
- [A] WO 2011006093 A1 20110113 - KREG MEDICAL INC [US], et al
- [A] FR 2774573 A1 19990813 - SUPPORT SYSTEMS INTERNATIONAL [FR]
- [A] EP 2005929 A1 20081224 - HILL ROM IND SA [FR]

Cited by

EP3698764A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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