

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 B1 20190313 (EN)**

Application  
**EP 16305418 A 20160408**

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Abstract (en)  
[origin: EP3228294A1] 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.

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