

Title (en)
SUSPENSION AND BODY ATTACHMENT SYSTEM AND DIFFERENTIAL PRESSURE SUIT FOR BODY WEIGHT SUPPORT DEVICES

Title (de)
AUFHÄNGUNGS- UND FAHRWERKBEFESTIGUNGSSYSTEM SOWIE DIFFERENZIALDRUCKANZUG FÜR KÖRPERGEWICHTSSTÜTZVORRICHTUNGEN

Title (fr)
SYSTÈME DE SUSPENSION ET DE FIXATION CORPORELLE ET MAILLOT À PRESSION DIFFÉRENTIELLE POUR DISPOSITIFS DE SUPPORT DU POIDS CORPOREL

Publication
EP 2968049 A4 20161207 (EN)

Application
EP 14762800 A 20140314

Priority

- US 201313839204 A 20130315
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Abstract (en)
[origin: CN105579014A] The present invention provides a differential pressure body suit with external support against body suit migration. In its preferred embodiment, such body suit may comprise a close-fitting, multi-layered suit sealed against a mammal's skin to contain the differential pressure, or a looser-fitting suit that bends at the mammal's joints with minimal force. External support means include either fixed or movable mechanical supports attached to the body suit, extraordinary air pressure levels for making the body suit rigid, or exoskeletons attached to the body suit, or a counter-force suspension cable adjustment system. A cyclic control system can turn the differential pressure condition within the body suit on and off on a selective basis to accommodate the movement of the legs of the mammal. The pressurization reduces the weight of the body to greater or lesser extents, and offloads the weight to the ground through the external support means.

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Citation (search report)

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- [Y] US 2003137119 A1 20030724 - RAZON ELI [US]
- See references of WO 2014144158A2

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