

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 B1 20201014 (EN)

Application

EP 14762800 A 20140314

Priority

- US 201313839204 A 20130315
- US 2014028448 W 20140314

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.

IPC 8 full level

A61H 1/02 (2006.01); **A61H 1/00** (2006.01); **A61H 3/00** (2006.01); **A61H 3/04** (2006.01)

CPC (source: EP US)

A61H 3/008 (2013.01 - EP US); **A61H 3/04** (2013.01 - EP); **A61H 9/0078** (2013.01 - EP); **A63B 21/00181** (2013.01 - EP); **A63B 69/0064** (2013.01 - EP); **A61H 1/024** (2013.01 - EP); **A61H 1/0266** (2013.01 - EP); **A61H 3/00** (2013.01 - EP); **A61H 2201/1616** (2013.01 - EP); **A61H 2201/1621** (2013.01 - EP); **A61H 2201/163** (2013.01 - EP); **A61H 2201/1642** (2013.01 - EP); **A61H 2201/165** (2013.01 - EP); **A61H 2201/5071** (2013.01 - EP); **A61H 2203/03** (2013.01 - EP); **A61H 2205/08** (2013.01 - EP); **A61H 2205/10** (2013.01 - EP); **A61H 2209/00** (2013.01 - EP); **A63B 22/02** (2013.01 - EP); **A63B 22/20** (2013.01 - EP); **A63B 69/16** (2013.01 - EP); **A63B 71/0009** (2013.01 - EP); **A63B 2022/0094** (2013.01 - EP); **A63B 2208/05** (2013.01 - EP); **A63B 2208/14** (2013.01 - EP)

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

DOCDB simple family (publication)

CN 105579014 A 20160511; CN 105579014 B 20181127; EP 2968049 A2 20160120; EP 2968049 A4 20161207; EP 2968049 B1 20201014

DOCDB simple family (application)

CN 201480028304 A 20140314; EP 14762800 A 20140314