

Title (en)

COMPRESSION DEVICE IN COMBINATION WITH LOWER LIMB PROTECTION

Title (de)

KOMPRESSIONSVORRICHTUNG IN KOMBINATION MIT SCHUTZ DER UNTEREN GLIEDMASSEN

Title (fr)

DISPOSITIF DE COMPRESSION EN COMBINAISON AVEC PROTECTION DE MEMBRE INFÉRIEUR

Publication

EP 3100708 A2 20161207 (EN)

Application

EP 16160997 A 20160317

Priority

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Abstract (en)

The present invention relates to a support system for a body part including a compression device in combination with a lower leg protection system. The support system comprises: an inner positioner (14) formed of bladder (13) including fluidized material therein which can retain its shape after sculpting; an outer support (52) comprising a top layer, a first intermediate layer, a second intermediate layer, and a bottom layer; a first plenum formed between the top layer and the first intermediate layer, the top layer includes perforations; a first valve connected to the first plenum and a first pump, said first pump providing air through the first valve to said first plenum to create air flow into the plenum and out through the perforations; a second plenum formed between the first intermediate layer and the second intermediate layer and second pump, a second valve connecting to the second pump, said second pump provides air to the second plenum to inflate said second plenum in an intermittent or sequential manner; and a third plenum formed between the second intermediate layer and the bottom layer, said third plenum containing a fixed amount of static air. The outer support can include a rigid outer shell for providing support.

IPC 8 full level

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Citation (applicant)

- US 5421874 A 19950606 - PEARCE TONY M [US]
- US 5549743 A 19960827 - PEARCE TONY M [US]
- US 5626657 A 19970506 - PEARCE TONY M [US]
- US 6020055 A 20000201 - PEARCE TONY M [US]
- US 6197099 B1 20010306 - PEARCE TONY M [US]
- US 8171585 B2 20120508 - MEAD STEVEN [US], et al
- US 7790283 B2 20100907 - HARTMANN MARK [US], et al
- US 7666502 B2 20100223 - MAGILL MONTE C [US], et al
- US 7579078 B2 20090825 - HARTMANN MARK H [US], et al

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