

Title (en)

FORCE OPTIMIZATION SURFACE APPARATUS AND METHOD

Title (de)

VORRICHTUNG UND METHODE ZUR OPTIMIERUNG VON KRÄFTEN AUF EINER OBERFLÄCHE

Title (fr)

DISPOSITIF ET PROCEDE D'OPTIMISATION DES FORCES SUR UNE SURFACE

Publication

EP 1123074 A4 20041229 (EN)

Application

EP 99956746 A 19991028

Priority

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Abstract (en)

[origin: WO0024353A1] A pressure optimization surface (10) is disclosed having a modifiable support surface (9) including a plurality of zones (46, 48, 50, 52) and an interface sensor (15) having a plurality of zones (96, 98, 100, 102) adjacent to and associated with the plurality of zones (46, 48, 50, 52) of modifiable support surface (9) and a controller (18). The sensor zones (96, 98, 100, 102) sense forces between the surface (9) and a patient (16) thereon and the controller (18) modifies the zones (46, 48, 50, 52) of surface (9) to reduce the force detected in each sensor zone (96, 98, 100, 102).

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IPC 8 full level

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Citation (search report)

- [XY] EP 0489310 A1 19920610 - AMERICA BIOMECHANICS CORP [US]
- [Y] US 5724990 A 19980310 - OGINO HIROYUKI [JP]
- [Y] US 3547106 A 19701215 - BORNMAN WILLIAM J
- [A] US 5592706 A 19970114 - PEARCE TONY M [US]
- [A] US 5687099 A 19971111 - GROSS CLIFFORD M [US], et al
- [A] FR 2757377 A1 19980626 - SUPPORT SYSTEMS INTERNATIONAL [FR]
- [A] US 4509527 A 19850409 - FRADEN JACOB [US]
- [PA] FR 2774573 A1 19990813 - SUPPORT SYSTEMS INTERNATIONAL [FR]
- See references of WO 0024353A1

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