

Title (en)
CONTROLLABLE BEDS

Title (de)
STEUERBARE BETTEN

Title (fr)
LITS POUVANT ÊTRE COMMANDÉS

Publication
EP 4093246 A4 20240214 (EN)

Application
EP 21744973 A 20210125

Priority
• US 202062965775 P 20200124
• US 2021014931 W 20210125

Abstract (en)
[origin: US2021227991A1] A support structure for supporting a human body. The support structure includes a plurality of zones, including a hip zone, a lumbar zone, and a shoulder zone. The support structure includes at least one air bladder cell being disposed in each of the plurality of zones, each of the at least one air bladder cell being a hermetically sealed body. An air pressure controller includes a plurality of air pumps being connected to a pliable manifold, the pliable manifold being connected to one or more of a plurality of solenoid valves. A plurality of inlet tubes can each be connected at a first end to one of the plurality of solenoid valves and at a second end to the inlet port of one of the at least one air bladder cell. The number of air bladder cells can be greater than the number of zones.

IPC 8 full level
A47C 27/08 (2006.01); **A47C 27/10** (2006.01); **A47C 31/00** (2006.01); **F04B 39/00** (2006.01)

CPC (source: EP US)
A47C 27/082 (2013.01 - EP US); **A47C 27/083** (2013.01 - EP US); **A47C 27/10** (2013.01 - EP US); **A47C 31/008** (2013.01 - EP US); **F04B 35/04** (2013.01 - EP); **F04B 39/0044** (2013.01 - EP); **F04B 41/06** (2013.01 - EP); **F04B 49/065** (2013.01 - EP); **F04B 49/08** (2013.01 - EP); **F04B 2205/05** (2013.01 - EP); **F04B 2205/063** (2013.01 - EP); **F04B 2207/70** (2013.01 - EP)

Citation (search report)
• [Y] US 2006026768 A1 20060209 - CHAMBERS KENITH W [US], et al
• [Y] GB 2177594 A 19870128 - MEDISCUS PROD LTD
• [Y] US 5373595 A 19941220 - JOHNSON PETER D [CA], et al
• [Y] CN 108056627 A 20180522 - YAO XUEHUA
• See also references of WO 2021151084A1

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

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US 2021227991 A1 20210729; CA 3163863 A1 20210729; EP 4093246 A1 20221130; EP 4093246 A4 20240214; JP 2023511509 A 20230320; US 2024180337 A1 20240606; WO 2021151084 A1 20210729

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US 202117157758 A 20210125; CA 3163863 A 20210125; EP 21744973 A 20210125; JP 2022538793 A 20210125; US 2021014931 W 20210125; US 202318540143 A 20231214