

Title (en)
CUSHION ELEMENT

Title (de)
POLSTERELEMENT

Title (fr)
ÉLÉMENT D'AMORTISSEMENT

Publication
EP 3851085 A1 20210721 (EN)

Application
EP 20152487 A 20200117

Priority
EP 20152487 A 20200117

Abstract (en)
Cushion element (1) comprising a polymeric material, the cushion element (1) having an interface surface (2) for contacting a human and a free surface (3) opposite to the interface surface (2), wherein a) the cushion element (1) has a through-going open-cell structure which allows air-circulation between the interface surface (2) and the free surface (3); and b) the through-going open-cell structure is obtained by a 3D printing manufacturing process. The cushion element (1) permits to place different softness zones wherever needed within the design and achieve pressure relief on neuralgic prominent anatomical pressure sensitive zones. Optionally, the cushion element (1) can further comprise two electrode plates (7), which comprise an electrically conductive material, the two electrode plates (7) are arranged essentially parallel to the interface surface (2) at a given distance from each other and electrically isolated from each other by the polymeric cellular material between the two electrode plates (7) and wherein the electrode plates (7) are obtained via the 3D printing manufacturing process.

IPC 8 full level
A61G 5/10 (2006.01); **B60N 2/70** (2006.01)

CPC (source: EP)
A61G 5/1043 (2013.01); **A61G 5/1091** (2016.10)

Citation (applicant)
GB 2558614 A 20180718 - THE HELPING HAND COMPANY LEDBURY LTD [GB]

Citation (search report)
• [X] US 2019054847 A1 20190221 - LANG STEVEN C [US], et al
• [X] WO 2018183803 A1 20181004 - DOW SILICONES CORP [US]
• [X] WO 2006013391 A2 20060209 - CONNAUGHT MOTOR CO LTD [GB], et al
• [A] WO 2010045741 A1 20100429 - ELMEDEX LTD [CA], et al

Cited by
US11364828B2

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

Designated extension state (EPC)
BA ME

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