

Title (en)
CELLULAR ENERGY-ABSORBING STRUCTURE FASTENING DEVICE

Title (de)
BEFESTIGUNGSVORRICHTUNG FÜR ZELLULARE ENERGIEABSORBIERENDE STRUKTUR

Title (fr)
DISPOSITIF DE FIXATION DE STRUCTURE D'ABSORPTION D'ÉNERGIE CELLULAIRE

Publication
EP 4082372 A1 20221102 (EN)

Application
EP 21020236 A 20210429

Priority
EP 21020236 A 20210429

Abstract (en)
Helmet (1) comprising: a shell (2); a head receiving system (3); at least one cellular energy-absorbing structure (4) comprising a plurality of interconnected open-cells (9) configured to absorb energy by deforming during an impact on the shell (2); at least one clamping device (5) comprising a base (6) and a counter-base (7) connected to each other via a collapsible body (8) configured to pass-through the cellular energy-absorbing structure (4); wherein the collapsible body (8) is sized so as to pass through one or more open-cells (9) of the cellular energy-absorbing structure (4) and the clamping device (5) is connected to the shell (2) and/or to the head receiving system (3) for clamping the cellular energy-absorbing structure (4) to the shell (2) and/or to the head receiving system (3).

IPC 8 full level
A42B 3/06 (2006.01); **A42B 3/12** (2006.01)

CPC (source: EP)
A42B 3/064 (2013.01); **A42B 3/124** (2013.01)

Citation (applicant)

- EP 2440082 B1 20150325 - MIPS AB [SE]
- WO 2016209740 A1 20161229 - 6D HELMETS LLC [US]

Citation (search report)

- [Y] WO 2018231632 A1 20181220 - BELL SPORTS INC [US]
- [Y] WO 2020245609 A1 20201210 - HEXR LTD [GB]
- [A] US 2010115686 A1 20100513 - HALLDIN PETER [SE]
- [A] WO 2006022680 A1 20060302 - FULL90 SPORTS INC [US], et al
- [A] EP 3422887 A1 20190109 - APEX BIOMEDICAL COMPANY LLC [US]

Designated contracting state (EPC)
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