

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

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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)

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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DOCDB simple family (publication)

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