

Title (en)  
PROTECTIVE HELMET

Title (de)  
SCHUTZHELM

Title (fr)  
CASQUE DE PROTECTION

Publication  
**EP 3565427 A1 20191113 (EN)**

Application  
**EP 18701976 A 20180108**

Priority  
• US 201715401257 A 20170109  
• US 2018012779 W 20180108

Abstract (en)  
[origin: WO2018129447A1] A protective helmet (200) having multiple protective zones, including an inner shell (204) having a first inner surface and a first outer surface, a padded inner lining attached to the first inner surface, an outer shell (202) having a second inner surface and a second outer surface, the outer shell functionally attached to the inner shell, an elastomeric zone (203) between the first outer surface and the second inner surface, a plurality of energy dissipation devices (215) arranged between the inner and outer shells, and a plurality of sinusoidal springs (208) positioned in the elastomeric zone. Each of the plurality of sinusoidal springs includes a first end, and a second end connected to one of the plurality of energy dissipation devices.

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 (search report)  
See references of WO 2018129447A1

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

DOCDB simple family (publication)  
**WO 2018129447 A1 20180712**; CN 110167375 A 20190823; CN 110167375 B 20221209; EP 3565427 A1 20191113; EP 3565427 B1 20211020

DOCDB simple family (application)  
**US 2018012779 W 20180108**; CN 201880006031 A 20180108; EP 18701976 A 20180108