

Title (en)

INTERLOCKING CO-MOLDED HELMET ENERGY MANAGEMENT LINER

Title (de)

INEINANDERGREIFENDE, GEMEINSAM GEFORMTE HELM-ENERGIEMANAGEMENTAUSKLEIDUNG

Title (fr)

INTERVERROUILLAGE DE DOUBLURE DE GESTION D'ÉNERGIE DE CASQUE CO-MOULÉ

Publication

EP 3459376 A1 20190327 (EN)

Application

EP 18193569 A 20180910

Priority

US 201715713517 A 20170922

Abstract (en)

A helmet (100) includes a helmet body (102) with an outer shell (104) and an in-molded energy management liner (200) inside the outer shell. The in-molded energy management liner (200) includes an inner liner (202) of a first material and an outer liner (300) of a second material different from the first material, with at least one hole (208) through the inner liner, an inside surface (210), an outside surface (212), and sides connecting the inside surface with the outside surface. The outer liner formed around the inner liner such that the outer liner extends through the at least one hole and around at least two of the sides of the inner liner, covering a majority of the outside surface and at least a portion of the inside surface, and both the inner liner and the outer liner are exposed on an inside of the in-molded energy management liner.

IPC 8 full level

A42B 3/06 (2006.01); **A42B 3/12** (2006.01); **A42C 2/00** (2006.01)

CPC (source: CN EP US)

A42B 3/063 (2013.01 - US); **A42B 3/066** (2013.01 - EP US); **A42B 3/08** (2013.01 - US); **A42B 3/10** (2013.01 - CN);
A42B 3/125 (2013.01 - CN US); **A42B 3/128** (2013.01 - EP US); **A42C 2/002** (2013.01 - EP US)

Citation (search report)

- [AP] EP 3284359 A1 20180221 - EON SPORTING GOODS CO LTD [CN] & CN 205963032 U 20170222 - DONGGUAN YI'AN SPORTS GOODS CO LTD
- [A] EP 3175728 A1 20170607 - ZEDEL [FR]
- [A] FR 2379262 A1 19780901 - FINQUEL MICHEL [FR]
- [A] US 2015250248 A1 20150910 - JACOBSEN GREGG T [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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3459376 A1 20190327; CN 109527690 A 20190329; US 2019090574 A1 20190328

DOCDB simple family (application)

EP 18193569 A 20180910; CN 201811086060 A 20180918; US 201715713517 A 20170922