

Title (en)

FLEXIBLE AND TUNABLE REFLECTIVE SKIN

Title (de)

FLEXIBLE UND ABSTIMMBARE REFLEKTIERENDE HAUT

Title (fr)

REVÊTEMENT RÉFLÉCHISSANT FLEXIBLE ET RÉGLABLE

Publication

EP 3183606 A1 20170628 (EN)

Application

EP 15756516 A 20150814

Priority

- US 201414466931 A 20140822
- US 2015045328 W 20150814

Abstract (en)

[origin: WO2016028642A1] Free-standing, flexible articles (skins), with settable or tunable reflectivity, for a defined range of electromagnetic frequencies are provided. The articles include a monolayer, or multi-layers, of ductile or elastic materials which retain mechanical integrity when the skin is stretched, flexed or otherwise altered in shape during deployment or use. The articles may further include an optical structure which exhibit changeable reflectivity when the skin is stretched, flexed or otherwise altered in shape. Methods of tuning the reflective characteristics of such skin through stretching, flexing or otherwise changing shape are also provided.

IPC 8 full level

G02B 5/18 (2006.01); **G02B 5/26** (2006.01); **G02B 5/28** (2006.01)

CPC (source: EP)

G02B 5/1828 (2013.01); **G02B 5/26** (2013.01); **G02B 5/28** (2013.01)

Citation (search report)

See references of WO 2016028642A1

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 2016028642 A1 20160225; EP 3183606 A1 20170628

DOCDB simple family (application)

US 2015045328 W 20150814; EP 15756516 A 20150814