

Title (en)

RETAINING FRAME HAVING AT LEAST ONE OPTICAL ELEMENT

Title (de)

HALTERUNGSRAHMEN MIT MINDESTENS EINEM OPTISCHEN ELEMENT

Title (fr)

CADRE DE FIXATION COMPORTANT AU MOINS UN ÉLÉMENT OPTIQUE

Publication

EP 2297515 A1 20110323 (DE)

Application

EP 09780522 A 20090713

Priority

- EP 2009058933 W 20090713
- DE 102008033384 A 20080716

Abstract (en)

[origin: WO2010007028A1] The invention relates to a retaining frame comprising at least one optical element secured thereto by injection molding, the at least one optical element being designed to form a beam by total internal reflection and/or diffraction.

IPC 8 full level

F21V 17/00 (2006.01); **F21S 8/12** (2006.01); **F21V 5/00** (2006.01); **F21V 7/00** (2006.01); **F21V 11/16** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)

F21S 41/28 (2017.12 - EP US); **F21S 41/322** (2017.12 - EP US); **F21S 41/43** (2017.12 - EP US); **F21S 41/55** (2017.12 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

See references of WO 2010007028A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

DE 102008033384 A1 20100121; CN 102099622 A 20110615; CN 102099622 B 20140618; EP 2297515 A1 20110323; EP 2297515 B1 20140402; JP 2011528164 A 20111110; JP 5290414 B2 20130918; US 2011121708 A1 20110526; US 8552627 B2 20131008; WO 2010007028 A1 20100121

DOCDB simple family (application)

DE 102008033384 A 20080716; CN 200980128001 A 20090713; EP 09780522 A 20090713; EP 2009058933 W 20090713; JP 2011517890 A 20090713; US 200913054617 A 20090713