

Title (en)

Safety element, in particular safety label with manipulation verification

Title (de)

Sicherheitselement, insbesondere Sicherheitsetikett mit Manipulationsnachweis

Title (fr)

Élément de sécurité, en particulier étiquette de sécurité avec vérification de la manipulation

Publication

**EP 2234091 B1 20150325 (DE)**

Application

**EP 09004424 A 20090327**

Priority

EP 09004424 A 20090327

Abstract (en)

[origin: EP2234091A1] The element has a carrier substrate e.g. plastic foil, metal foil or paper or composite with paper, and a paint layer comprising an optically active structure, and another paint layer i.e. thermoplastic paint layer. A reflective layer has optical features, and the element comprises an adhesive coating. A bonding agent is applied between the two paint layers. The two paint layers are radiation-hardened paint layers. The latter paint layer comprises an optically active structure, which is different from the optically active structure of the former paint layer.

IPC 8 full level

**G09F 3/02** (2006.01)

CPC (source: EP US)

**G09F 3/0292** (2013.01 - EP US); **Y10T 428/2843** (2015.01 - EP US); **Y10T 428/2848** (2015.01 - EP US)

Cited by

DE102016216878A1; EP3106561A1; AT521567A2; WO2016008553A1; WO2016202416A1

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 TR

DOCDB simple family (publication)

**EP 2234091 A1 20100929; EP 2234091 B1 20150325**; CN 102272811 A 20111207; CN 102272811 B 20141119; ES 2534234 T3 20150420; JP 2012522256 A 20120920; JP 5787260 B2 20150930; MX 2011010147 A 20111017; MY 165994 A 20180521; PL 2234091 T3 20150831; RU 2011135077 A 20130510; RU 2533665 C2 20141120; SI 2234091 T1 20150731; UA 105515 C2 20140526; US 2012003469 A1 20120105; WO 2010108567 A1 20100930

DOCDB simple family (application)

**EP 09004424 A 20090327**; CN 201080004123 A 20100204; EP 2010000697 W 20100204; ES 09004424 T 20090327; JP 2012501151 A 20100204; MX 2011010147 A 20100204; MY PI2011003511 A 20100204; PL 09004424 T 20090327; RU 2011135077 A 20100204; SI 200931206 T 20090327; UA A201110491 A 20100204; US 201013139827 A 20100204