

Title (en)
SECURITY ELEMENT

Title (de)
SICHERHEITSELEMENT

Title (fr)
ÉLÉMENT DE SÉCURITÉ

Publication
EP 2771150 A1 20140903 (DE)

Application
EP 12795345 A 20121026

Priority
• DE 102011117044 A 20111027
• EP 2012071310 W 20121026

Abstract (en)
[origin: CA2852590A1] The invention relates to a security element (1). The security element (1) has a visible face, and a rear side lying opposite said face. The security element includes at least one luminous layer (2), which can emit light (20), and at least one mask layer (4), which is arranged in front of the at least one luminous layer (2) when looking at the security element (1) from the visible face. The at least one mask layer (4) has at least one opaque region (5) and at least two transparent openings (41, 42). The at least two transparent openings (41, 42) have a significantly higher degree of transmission than the at least one opaque region (5) with respect to the light emitted (20) by the at least one luminous layer (2), preferably a degree of transmission higher by at least 20%, with a degree of transmission higher by at least 50% being especially preferred.

IPC 8 full level
B24D 15/00 (2006.01)

CPC (source: EP US)
B42D 25/00 (2014.10 - US); **B42D 25/29** (2014.10 - EP US); **B42D 25/30** (2014.10 - US); **B42D 25/342** (2014.10 - EP US); **B42D 25/346** (2014.10 - EP); **B42D 25/351** (2014.10 - EP); **B42D 25/36** (2014.10 - EP); **B42D 25/382** (2014.10 - EP); **B42D 25/387** (2014.10 - EP); **B42D 25/45** (2014.10 - EP); **B42D 25/328** (2014.10 - US); **B42D 25/382** (2014.10 - US); **B42D 25/387** (2014.10 - US); **Y10T 29/49826** (2015.01 - EP US)

Citation (search report)
See references of WO 2013060874A1

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

DOCDB simple family (publication)
DE 102011117044 A1 20130502; DE 102011117044 B4 20190529; AU 2012328328 A1 20140508; AU 2012328328 B2 20170316; AU 2012328331 A1 20140515; AU 2012328331 B2 20160421; CA 2852590 A1 20130502; CA 2852590 C 20190827; CA 2852654 A1 20130502; CA 2852654 C 20190611; CN 104066550 A 20140924; CN 104066550 B 20170412; EP 2771150 A1 20140903; EP 2771150 B1 20160914; EP 2771194 A1 20140903; EP 2771194 B1 20150930; ES 2607129 T3 20170329; KR 102038013 B1 20191029; KR 20140097216 A 20140806; US 2014300095 A1 20141009; US 2014312607 A1 20141023; US 9796204 B2 20171024; US 9834030 B2 20171205; WO 2013060874 A1 20130502; WO 2013060877 A1 20130502

DOCDB simple family (application)
DE 102011117044 A 20111027; AU 2012328328 A 20121026; AU 2012328331 A 20121026; CA 2852590 A 20121026; CA 2852654 A 20121026; CN 201280065177 A 20121026; EP 12791114 A 20121026; EP 12795345 A 20121026; EP 2012071310 W 20121026; EP 2012071315 W 20121026; ES 12795345 T 20121026; KR 20147014040 A 20121026; US 201214353992 A 20121026; US 201214354361 A 20121026