

Title (en)
SECURITY ELEMENT COMPRISING ORIENTED MAGNETIC PIGMENTS

Title (de)
SICHERHEITSELEMENT MIT AUSGERICHTETEN MAGNETPIGMENTEN

Title (fr)
ÉLÉMENT DE SÉCURITÉ À PIGMENTS MAGNÉTIQUES ORIENTÉS

Publication
EP 2608964 B1 20160518 (DE)

Application
EP 11757763 A 20110817

Priority
• DE 102010035313 A 20100825
• EP 2011004142 W 20110817

Abstract (en)
[origin: WO2012025206A2] The invention relates to a security element (12) for security papers, value documents, and other data media, comprising an ink layer (20) that contains magnetically oriented magnetic pigments (44) forming a first motif (22) in the form of patterns, characters or a code, said motif (22) creating a dynamic motion effect when tilting the security element. According to the invention, the first, dynamic motif (22) is combined with a second motif in the form of an embossed structure having raised embossed elements which have differently oriented flanks such that the magnetic pigments arranged on differently oriented flanks reflect incident light in different ways and the second motif creates a flip effect when tilting the security element.

IPC 8 full level
B41M 3/14 (2006.01); **B42D 15/00** (2006.01); **B42D 25/29** (2014.01); **B44C 1/24** (2006.01); **B44F 1/10** (2006.01)

CPC (source: EP US)
B41M 3/148 (2013.01 - EP); **B42D 25/20** (2014.10 - US); **B42D 25/29** (2014.10 - EP); **B42D 25/369** (2014.10 - US); **B42D 25/425** (2014.10 - EP); **B05D 3/12** (2013.01 - EP); **B05D 3/207** (2013.01 - EP); **B05D 5/065** (2013.01 - EP); **B42D 25/324** (2014.10 - EP); **B42D 2033/16** (2022.01 - EP); **B42D 2033/18** (2022.01 - EP); **B42D 2035/20** (2022.01 - EP)

Cited by
CN110573350A; CN105764704A; DE102013019943A1; WO2015078573A1; DE102013019944A1; WO2015078572A1; DE102015004027A1; US10322601B2; US11643559B2; WO2019233624A1

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 102010035313 A1 20120301; EP 2608964 A2 20130703; EP 2608964 B1 20160518; WO 2012025206 A2 20120301; WO 2012025206 A3 20121115

DOCDB simple family (application)
DE 102010035313 A 20100825; EP 11757763 A 20110817; EP 2011004142 W 20110817