

Title (en)

SECURITY ELEMENT WITH MACHINE READABLE FEATURES

Title (de)

SICHERHEITSELEMENT MIT MASCHINELL LESBAREN MERKMALEN

Title (fr)

ÉLÉMENT DE SÉCURITÉ AYANT DES CARACTÉRISTIQUES LISIBLES PAR MACHINE

Publication

**EP 3738785 A1 20201118 (DE)**

Application

**EP 19174396 A 20190514**

Priority

EP 19174396 A 20190514

Abstract (en)

[origin: WO2020229271A1] The invention relates to a security element (18) with machine-readable magnetic security features (3, 4) in the form of at least two magnetic materials which have different magnitudes of coercive force and which are provided as a mixture in at least one printing ink (2) that is applied onto a carrier substrate (1), wherein the at least one printing ink (2) is provided in at least two regions on the security element (18) with the same thickness and/or different thicknesses, and a defined mixture ratio of the at least two magnetic materials (3, 4) with different magnitudes of coercive force is provided in the at least one printing ink (2).

Abstract (de)

Sicherheitselement (18) mit maschinenlesbaren, magnetischen Sicherheitsmerkmalen (3,4) in Form von zumindest zwei magnetischen Materialien unterschiedlicher Koerzitivfeldstärke, die als Mischung in zumindest einer Druckfarbe (2) vorliegen, die auf einem Trägersubstrat (1) aufgebracht ist wobei die mindestens eine Druckfarbe (2) in zumindest zwei Bereichen auf dem Sicherheitselement (18) in gleicher und/oder unterschiedlicher Dicke vorgesehen ist und ein definiertes Mischungsverhältnis der mindestens zwei magnetischen Materialien (3,4) unterschiedlicher Koerzitivfeldstärke in der zumindest einen Druckfarbe (2) vorliegt.

IPC 8 full level

**B42D 25/369** (2014.01); **B42D 25/29** (2014.01); **B42D 25/328** (2014.01); **B42D 25/355** (2014.01); **B42D 25/364** (2014.01); **B42D 25/47** (2014.01); **G07D 7/04** (2016.01)

CPC (source: EP US)

**B42D 25/29** (2014.10 - EP); **B42D 25/328** (2014.10 - EP); **B42D 25/355** (2014.10 - EP); **B42D 25/364** (2014.10 - EP); **B42D 25/369** (2014.10 - EP US); **B42D 25/47** (2014.10 - EP); **G07D 7/04** (2013.01 - EP); **B42D 25/29** (2014.10 - US); **B42D 25/328** (2014.10 - US); **B42D 25/47** (2014.10 - US)

Citation (applicant)

- EP 0516790 A1 19921209 - GAO GES AUTOMATION ORG [DE]
- EP 0310707 A2 19890412 - MANTEGAZZA A ARTI GRAFICI [IT]
- EP 1871616 A2 20080102 - HUECK FOLIEN GMBH [AT]
- WO 2006042667 A1 20060427 - GIESECKE & DEVRIENT GMBH [DE], et al
- WO 2009090676 A1 20090723 - FABRIANO SECURITIES SRL [IT], et al

Citation (search report)

- [XD] WO 2009090676 A1 20090723 - FABRIANO SECURITIES SRL [IT], et al
- [X] EP 2578414 A1 20130410 - HUECK FOLIEN GMBH [AT]
- [AD] DE 3781894 T2 19930107 - MANTEGAZZA A ARTI GRAFICI [IT]
- [X] WO 2008148523 A1 20081211 - GIESECKE & DEVRIENT GMBH [DE], et al
- [X] WO 2012025216 A1 20120301 - HUECK FOLIEN GMBH [AT], et al

Cited by

EP4159463A1; WO2023233428A1; WO2023057279A1

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)

**EP 3738785 A1 20201118**; **EP 3738785 B1 20240313**; US 11932044 B2 20240319; US 2022194117 A1 20220623; WO 2020229271 A1 20201119

DOCDB simple family (application)

**EP 19174396 A 20190514**; EP 2020062621 W 20200506; US 202017610800 A 20200506