

Title (en)
Intaglio printing plate

Title (de)
Stichtiefdruckplatte

Title (fr)
Plaque d'impression en creux

Publication
EP 1580020 A1 20050928 (EN)

Application
EP 04405179 A 20040324

Priority
EP 04405179 A 20040324

Abstract (en)
An engraved plate for intaglio printing or embossing of sheets of security papers, comprising a plate portion generating on each said security paper a control element, said portion being provided with at least one first set of asymmetrical furrow elements, each said furrow element having a first side wall and an opposite second side wall, the average slope of said first side wall being different from the average slope of said second side wall, and the slopes of said first side walls of said set of furrow elements being substantially equal amongst themselves and the slopes of said second side walls of said set of furrow elements being substantially equal amongst themselves.

IPC 1-7
B41N 1/06; **B42D 15/00**

IPC 8 full level
B41N 1/06 (2006.01); **B42D 15/00** (2006.01)

CPC (source: EP US)
B41C 1/045 (2013.01 - EP US); **B41M 1/10** (2013.01 - EP US); **B41M 3/14** (2013.01 - EP); **B41N 1/06** (2013.01 - EP); **B42D 25/29** (2014.10 - EP); **B42D 25/425** (2014.10 - US); **B42D 25/485** (2014.10 - US); **B42D 25/324** (2014.10 - EP); **B42D 2035/08** (2022.01 - EP); **B42D 2035/20** (2022.01 - EP)

Citation (search report)

- [X] EP 0429782 A1 19910605 - LANDIS & GYR BETRIEBS AG [CH]
- [X] US 3887742 A 19750603 - REINNAGEL RICHARD E
- [A] US 4250217 A 19810210 - GREENAWAY DAVID L [CH]
- [A] WO 0020225 A1 20000413 - GIESECKE & DEVRIENT GMBH [DE], et al
- [A] WO 0220279 A1 20020314 - GIESECKE & DEVRIENT GMBH [DE], et al

Cited by
WO2010100360A1; WO2012130907A1; EP3904098A1; US2014312608A1; US9682591B2; CN102712207A; EP3216620A1; EP2119527A1; FR2973398A1; CN102729673A; US2016185151A2; US9821593B2; FR2942811A1; CN102292219A; AU2010219575B2; US9176266B2; US9297941B2; EP3354460A1; WO2011066990A3; US9827802B2; US10525758B2; US9796202B2; WO2011066991A3; WO2009138901A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1580020 A1 20050928; AT E396058 T1 20080615; DE 602005007011 D1 20080703; EP 1748900 A1 20070207; EP 1748900 B1 20080521; WO 2005090090 A1 20050929

DOCDB simple family (application)
EP 04405179 A 20040324; AT 05714710 T 20050323; CH 2005000168 W 20050323; DE 602005007011 T 20050323; EP 05714710 A 20050323