

Title (en)

Sheet-fed printing press and process for orienting magnetic flakes contained in an ink or varnish vehicle applied on a sheet-like substrate

Title (de)

Bogendruckmaschine und Verfahren zur Ausrichtung von Magnetspänen in einer Tinte oder einem Lackmedium zum Auftragen auf ein bogenähnliches Substrat

Title (fr)

Presse à imprimer sur feuilles et procédé pour orienter des flocons magnétiques contenus dans un véhicule d'encre ou de vernis appliqués sur un substrat de type feuille

Publication

**EP 2845732 A3 20150415 (EN)**

Application

**EP 14193754 A 20100924**

Priority

- EP 14193754 A 20100924
- EP 10179681 A 20100924

Abstract (en)

[origin: EP2433798A1] There is described a system and method for orienting magnetic flakes contained in an ink or varnish vehicle applied on a sheet-like or web-like substrate. The system comprises a processing unit (10\*) with at least one magnetic-field-inducing device for orienting the magnetic flakes contained in the ink or varnish vehicle applied on the substrate, which processing unit (10\*) is located along a path of the substrate in such a way that the substrate is brought into contact with or in close proximity to the processing unit (10\*) and the at least one magnetic-field-inducing device. The system further comprises at least one drying or curing unit (60) disposed in the vicinity of the processing unit (10\*) for drying or curing the ink or varnish vehicle to fix the orientation of the magnetic flakes contained therein while the substrate is still in contact with or in close proximity to the processing unit (10\*) and the at least one magnetic-field-inducing device before the substrate is taken away from the at least one magnetic-field-inducing device.

IPC 8 full level

**B41F 11/02** (2006.01); **B05D 3/00** (2006.01); **B05D 3/06** (2006.01); **B41F 15/08** (2006.01); **B41F 15/12** (2006.01); **B41F 19/00** (2006.01); **B41F 21/08** (2006.01); **B41F 23/04** (2006.01); **B41M 3/14** (2006.01); **B41M 7/00** (2006.01)

CPC (source: EP)

**B05D 3/067** (2013.01); **B05D 3/203** (2013.01); **B41F 15/0809** (2013.01); **B41F 15/12** (2013.01); **B41F 19/00** (2013.01); **B41F 19/005** (2013.01); **B41F 21/08** (2013.01); **B41F 23/0453** (2013.01); **B05D 2252/02** (2013.01); **B41M 3/14** (2013.01); **B41M 7/0045** (2013.01); **B41M 7/0081** (2013.01)

Citation (search report)

- [YDA] WO 2008102303 A2 20080828 - KBA GIORI SA [CH], et al
- [YDA] WO 2004007095 A2 20040122 - FLEX PRODUCTS INC [US]
- [A] GB 1261329 A 19720126 - ULRICH FRANCIS STEPHEN [US]
- [A] FR 1336766 A 19630906
- [A] EP 0873866 A1 19981028 - DE LA RUE GIORI SA [CH]
- [A] FR 2492732 A1 19820430 - ROLAND MAN DRUCKMASCH [DE]

Cited by

DE102018205883A1; DE102018205885A1; DE102018127936A1; WO2020020507A1; WO2020094291A1; DE102018212427A1; CN111516372A; DE102018212429A1; DE102017202747B3; CN111823702A; CN113490597A; DE102018205885B4; DE102018212428A1; AU2021353790B2; KR20210005645A; CN112533760A; RU2752130C1; AU2019311143B2; DE102020125728B3; WO2019201481A1; DE102018212429B4; DE102020125727B3; US11072164B2; WO2019201480A1; US10994302B2; DE102018205882A1; DE102018205882B4; DE102020102621A1; US11214052B2; US10180248B2; WO2022069107A1; US11858253B2

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 SE SI SK SM TR

DOCDB simple family (publication)

**EP 2433798 A1 20120328**; **EP 2433798 B1 20150408**; EP 2845732 A2 20150311; EP 2845732 A3 20150415; EP 2845732 B1 20170322; ES 2540864 T3 20150714; ES 2623162 T3 20170710

DOCDB simple family (application)

**EP 10179681 A 20100924**; EP 14193754 A 20100924; ES 10179681 T 20100924; ES 14193754 T 20100924