

Title (en)

Method for generating a printing characteristic on a substrate of a printed product

Title (de)

Verfahren zum Erzeugen eines drucktechnischen Merkmals auf einem Substrat eines Druckprodukts

Title (fr)

Procédé de production d'une caractéristique d'impression sur un substrat d'un produit imprimé

Publication

EP 2308682 A3 20120404 (DE)

Application

EP 10170426 A 20100722

Priority

DE 102009040359 A 20090907

Abstract (en)

[origin: CN102009536A] The present invention relates to a method for generating a printing (visible or functional, such as conductive) characteristic on a substrate of a printed product, wherein, the method involves producing a layer (4) by applying a first medium (5) e.g. adhesive and gloss varnish in a first step (A), and treating surfaces (6) of the first layer (4) segmentally at least in a second step (B) such that another layer (7) is produced by applying a second medium (8) e.g. foil transfer layer on the adhesive, or a surface structure (9) is generated through structuring the first medium (5) and stamping into the gloss varnish. The invention is characterized in that the surface (6) of the first layer (4) is pretreated in a middle step (ZS) with a mode that the information based on the printing characteristic (1) e.g. appearance of a conductor circuit structure or anti-counterfeiting random pattern, is transmitted to the first medium (5) purposely.

IPC 8 full level

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Citation (search report)

- [X] DE 19822605 A1 19991125 - ZANDERS FEINPAPIERE AG [DE]
- [X] WO 2004069551 A1 20040819 - CREO IL LTD [IL], et al
- [X] US 2007231525 A1 20071004 - BODWELL JAMES [US], et al
- [XI] US 2008075882 A1 20080327 - HAYATA YUUICHI [JP]
- [XI] US 2009220708 A1 20090903 - SCHMITT PETER [DE]

Cited by

US11559824B2; US11141759B2; US11420229B2; US11511318B2; US11717850B2; US11717851B2; US11883843B2

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