

Title (en)

A method for printing information on substrates comprising security features

Title (de)

Verfahren zum Drucken von Information auf Aufzeichnungsträgern mit Sicherheitsmerkmalen

Title (fr)

Méthode d'impression d'information sur des substrats munis d'éléments de sécurité

Publication

EP 0811894 A1 19971210 (EN)

Application

EP 97201643 A 19970602

Priority

- EP 97201643 A 19970602
- EP 96201580 A 19960606

Abstract (en)

A method for printing information on a substrate comprising security features is provided, being a Direct Electrostatic Printing (DEP) method, comprising the steps of : i) passing a substrate comprising security features and having thickness T in μm , in a spacing, having a width L in μm , between a printhead structure (106) and a back electrode (105), ii) providing, from a toner delivery means (101), a cloud (104) of toner particles in the vicinity of printing apertures (107) in the printhead structure (106), iii) image wise depositing toner particles on the substrate through the printing apertures and iv) fixing the toner particles to the substrate. Preferably $L \geq 1.5T$ and between the back electrode and the toner delivery means a DC potential difference (DCTB) such that $|DCTB|/L \geq 1.0$, where $|DCTB|/L$ is expressed in $V/\mu\text{m}$. <IMAGE>

IPC 1-7

G03G 15/34

IPC 8 full level

G03G 15/34 (2006.01)

CPC (source: EP)

G03G 15/346 (2013.01); **G03G 2217/0025** (2013.01)

Citation (search report)

- [A] US 5495273 A 19960227 - KITAMURA TETSUYA [JP]
- [A] US 5374949 A 19941220 - WADA TAKASUMI [JP], et al
- [DA] EP 0675417 A1 19951004 - AGFA GEVAERT NV [BE]
- [DA] US 5257046 A 19931026 - SCHMIDLIN FRED W [US]
- [A] US 4626459 A 19861202 - WARHOL NICHOLAS [US]
- [DPX] EP 0763785 A1 19970319 - AGFA GEVAERT NV [BE]

Cited by

US5880760A; EP1091264A1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0811894 A1 19971210

DOCDB simple family (application)

EP 97201643 A 19970602