

Title (en)

A method for direct electrostatic printing, extracting toner particles from a two-component developer with conductive carrier

Title (de)

Verfahren für direktes elektrostatisches Drucken mit Extraktion von Ionerteilchen aus einem Zweikomponentenentwickler mit einem leitendem Träger

Title (fr)

Méthode d'impression électrostatique directe avec extraction de particules de toner d'un développeur à deux composants comprenant un porteur conducteur

Publication

EP 0836124 A1 19980415 (EN)

Application

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Priority

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- EP 96202815 A 19961010

Abstract (en)

A method for Direct Electrostatic Printing (DEP) is provided comprising the steps of : creating a flow of charged toner particles (104) in an electrical field from a magnetic brush (103) to a substrate (109), image wise modulating said flow of charged toner particles by a printhead structure (106) comprising printing apertures (107) and control electrodes (106a), image wise depositing toner particles, from said image wise modulated flow of charged toner particles, on said substrate and fixing said toner particles to said substrate, characterised in that said flow of charged toner particles is created directly from said magnetic brush, carrying carrier particles and toner particles, said carrier particles have a specific volume resistivity between $10^{<1>}$ OMEGA .cm and $10^{<9>}$ OMEGA .cm and said carrier particles have a specific density lower than 5 g/cm^{<3>}. <IMAGE>

IPC 1-7

G03G 15/34; **G03G 9/10**

IPC 8 full level

G03G 9/10 (2006.01); **G03G 15/34** (2006.01)

CPC (source: EP US)

G03G 9/10 (2013.01 - EP US); **G03G 15/346** (2013.01 - EP US); **G03G 2217/0025** (2013.01 - EP)

Citation (search report)

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- [DA] US 5346791 A 19940913 - OZAWA YOSHIO [JP], et al
- [DA] US 4764445 A 19880816 - MISKINIS EDWARD T [US], et al

Designated contracting state (EPC)

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