

Title (en)

A device for direct electrostatic printing with an edge electrode and an AC-field on the surface of the toner delivery means

Title (de)

Direkte elektrostatische Druckvorrichtung mit einer Kantenelektrode und einem Wechselstromfeld auf dem Tonerzufuhrmitteloberfläch

Title (fr)

Appareil d'impression électrostatique directe comprenant une électrode de bord et un champ de courant alternatif sur la surface des moyens d'alimentation en toner

Publication

EP 0895867 A3 19990331 (EN)

Application

EP 98202302 A 19980708

Priority

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- EP 97202443 A 19970807

Abstract (en)

[origin: EP0895867A2] A device for direct electrostatic printing is provided comprising means for creating a flow of charged toner particles from a means for delivering charged toner particles, having a surface bearing toner particles, to an image receiving substrate, applying a DC potential difference between the means for delivering charged toner particles and the image receiving substrate and a printhead structure having control electrodes, interposed in the flow of toner particles for image wise controlling the flow of toner particles, the printhead structure controlling the flow of toner particles only from one side, wherein means for applying an AC-field on the surface bearing toner particles are incorporated, AC-field having a frequency between 1.5 and 3 kHz. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] EP 0435549 A2 19910703 - XEROX CORP [US]
- [DA] US 5625392 A 19970429 - MAEDA MASATAKA [JP]
- [DA] EP 0780740 A1 19970625 - AGFA GEVAERT NV [BE]
- [A] EP 0769384 A2 19970423 - HEWLETT PACKARD CO [US]
- [A] US 5051760 A 19910924 - SHOJI HISASHI [JP], et al

Cited by

EP1193070A3; EP1296203A1; US7524014B2; US6817701B2

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