

Title (en)

A device for direct electrostatic printing with a conventional printhead structure and an AC-voltage coupled to both the toner bearing surface and the control electrodes

Title (de)

Vorrichtung zum direkten elektrostatischen Drucken mit einer konventionellen Druckkopfstruktur und einer Wechselspannung, die sowohl an die tonertragende Oberfläche als an die Steuerelektroden gekoppelt ist

Title (fr)

Dispositif d'impression électrostatique directe avec une structure d'une tête d'impression conventionnelle et un circuit AC aussi bien couplé à la surface portante du toner qu'aux électrodes de commande

Publication

**EP 1090770 A1 20010411 (EN)**

Application

**EP 99203305 A 19991008**

Priority

EP 99203305 A 19991008

Abstract (en)

A DEP device wherein printing is realised by applying a first AC-voltage upon a surface bearing charged toner particles with an amplitude that is not sufficient for toner particles to pass through the printing apertures, and enhancing said AC-field present between the toner bearing surface and the printhead structure, by applying a second AC-voltage (which is out of phase with respect to the first AC-voltage) upon the control electrodes, so that in an image wise manner the AC-field between the toner bearing member and the control electrodes can be switched from an ON condition in which toner particles can pass the printing apertures, to an OFF condition in which said toner particles are prevented from passing said printing apertures.  
<IMAGE>

IPC 1-7

**B41J 2/415**

IPC 8 full level

**B41J 2/415** (2006.01)

CPC (source: EP)

**B41J 2/4155** (2013.01)

Citation (applicant)

- US 3689935 A 19720905 - PRESSMAN GERALD L [US], et al
- US 4876561 A 19891024 - SCHMIDLIN FRED W [US]
- US 5307092 A 19940426 - LARSON OVE [SE]
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- US 5625392 A 19970429 - MAEDA MASATAKA [JP]
- US 4755837 A 19880705 - SCHMIDLIN FRED W [US], et al
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Citation (search report)

- [DA] EP 0911706 A1 19990428 - AGFA GEVAERT NV [BE]
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