

Title (en)

A device for direct electrostatic printing with a conventional printhead structure and AC-coupling to the control electrode

Title (de)

Vorrichtung zum direkten elektrostatischen Drucken mit einer konventionellen Druckkopfstruktur und Wechselspannung zur Steuerelektrode

Title (fr)

Dispositif d'impression électrostatique directe avec une structure d'une tête d'impression conventionnelle et un circuit de couplage AC à l'électrode de commande

Publication

EP 0911706 B1 20010530 (EN)

Application

EP 97203268 A 19971020

Priority

EP 97203268 A 19971020

Abstract (en)

[origin: EP0911706A1] A device for direct electrostatic printing is provided comprising means for creating a flow of charged toner particles (102) from a means (103) for delivering charged toner particles, having a surface bearing toner particles, to an image receiving substrate (108) applying a DC-potential difference between the means for delivering charged toner particles and the image receiving substrate and a printhead structure (106) having control electrodes (106a), 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 by switching an AC-field (119) between the toner delivery means and the control electrodes on for pixels of image density and off for pixels of no image density. <IMAGE>

IPC 1-7

G03G 15/34; **B41J 2/415**

IPC 8 full level

B41J 2/385 (2006.01); **B41J 2/415** (2006.01); **G03G 15/05** (2006.01); **G03G 15/08** (2006.01); **G03G 15/34** (2006.01)

CPC (source: EP)

B41J 2/4155 (2013.01); **G03G 15/346** (2013.01); **G03G 2217/0025** (2013.01)

Cited by

EP1128232A1; EP1090770A1; WO0119617A1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0911706 A1 19990428; **EP 0911706 B1 20010530**; DE 69705045 D1 20010705; DE 69705045 T2 20011122; JP H11198428 A 19990727

DOCDB simple family (application)

EP 97203268 A 19971020; DE 69705045 T 19971020; JP 30954598 A 19981016