

Title (en)

A DEP (Direct Electrostatic Printing) device using gas stream to provide a toner cloud

Title (de)

Eine direkte elektrostatische Druckeinrichtung, die einen Gasstrom zur Bereitstellung einer Entwicklerwolke benutzt

Title (fr)

Dispositif d'impression électrostatique directe (DEP) utilisant un courant de gaz pour obtenir un nuage de révélateur

Publication

EP 0763785 A1 19970319 (EN)

Application

EP 96202316 A 19960820

Priority

- EP 96202316 A 19960820
- EP 95202487 A 19950914

Abstract (en)

A DEP device is provided that comprises a back electrode (105), a printhead structure (106), an array of printing apertures (107) in the printhead structure (106) through which a particle flow can be electrically modulated by a control electrode (106a), a toner delivery means (101), presenting a cloud (100) of dry toner particles in the vicinity of the apertures (107), characterised in that the toner cloud (100) is formed in the vicinity of the apertures (107) by means of a gas stream. The toner cloud is formed by detaching toner particles from a charged toner conveyer by the gas stream, or by forming a fluidized bed of toner particles. <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 2215/0621** (2013.01)

Citation (search report)

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- [YA] US 4777106 A 19881011 - FOTLAND RICHARD A [US], et al
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- [YA] PATENT ABSTRACTS OF JAPAN vol. 018, no. 405 (P - 1778) 28 July 1994 (1994-07-28)

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EP0811894A1; EP1058165A1; EP0867299A1; US6084614A; EP2003940A2; DE102007027473A1; EP2003941A2

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