

Title (en)

A printer for large format printing using a direct electrostatic printing (DEP) engine

Title (de)

Drucker zum Grossformatdrucken für ein Gerät zum direkten elektrostatischen Drucken

Title (fr)

Appareil d'impression pour imprimer à grand format utilisant un appareil d'impression électrostatique direct

Publication

EP 0849645 A1 19980624 (EN)

Application

EP 97203821 A 19971205

Priority

- EP 97203821 A 19971205
- EP 96203635 A 19961219

Abstract (en)

A printer, with printing width (PW), is provided, for printing a toner image on a substrate, having a width (WS) and a length (LS), comprising a DEP printing engine, having a toner delivery means, having a surface whereon charged toner particles are present for providing a flow of the toner particles from that surface to the substrate, a printhead structure with printing apertures and control electrodes, interposed in the flow of toner particles for image-wise controlling that flow, wherein : the toner delivery means comprises a number, n equal to or larger than 2, of toner applicator modules, each having a width, WTD, smaller than the printing width PW, and at least two of the number, n of toner applicator modules are positioned in a staggered configuration with respect to the substrate. Preferably the printing width of the printer is at least 40 cm. <IMAGE>

IPC 1-7

G03G 15/34; **G03G 15/08**; **G03G 15/32**

IPC 8 full level

G03G 15/08 (2006.01); **G03G 15/32** (2006.01); **G03G 15/34** (2006.01)

CPC (source: EP)

G03G 15/0806 (2013.01); **G03G 15/32** (2013.01); **G03G 15/346** (2013.01); **G03G 15/6594** (2013.01); **G03G 2215/00468** (2013.01); **G03G 2215/0648** (2013.01); **G03G 2217/0025** (2013.01)

Citation (search report)

- [DA] US 5283594 A 19940201 - IWAO NAOTO [JP]
- [DA] US 5477250 A 19951219 - LARSON OVE [SE]
- [DA] EP 0740224 A1 19961030 - AGFA GEVAERT NV [BE]
- [A] US 4996556 A 19910226 - GRAY JR GERALD A [US]
- [A] US 5198841 A 19930330 - SAKAMOTO MASASHI [JP]
- [A] EP 0619188 A2 19941012 - EASTMAN KODAK CO [US]
- [A] DE 19540138 C1 19961205 - SIEMENS NIXDORF INF SYST [DE]
- [A] US 5555078 A 19960910 - IWAMA RYOUICHI [JP], et al
- [A] US 5552862 A 19960903 - MASUDA SYUZO [JP], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 273 (P - 1545) 26 May 1993 (1993-05-26)
- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 002 (P - 652) 7 January 1988 (1988-01-07)

Cited by

EP0984336A1; EP0952498A1; US6246424B1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0849645 A1 19980624

DOCDB simple family (application)

EP 97203821 A 19971205