

Title (en)

Electrostatographic developing apparatus and method.

Title (de)

Elektrostatographisches Entwicklungsgerät und -verfahren.

Title (fr)

Appareil et procédé de développement électrostatographique.

Publication

EP 0041399 A2 19811209 (EN)

Application

EP 81302440 A 19810602

Priority

- US 15580480 A 19800602
- US 15588980 A 19800602

Abstract (en)

Electrostatographic developing apparatus including a developer applicator (15) for applying developer material (18) to an electrostatic latent image on a flexible imaging surface (1), the developer material comprising magnetically attractable carrier particles and toner particles. The applicator has within it magnets (16) for establishing a magnetic field having a region (21) of reduced strength in the development zone, and an electric field is established between the applicator and the imaging surface in the development zone. The imaging member (1) passes around a portion of the surface of the applicator (15) so as to be deflected by the applicator and spaced from it in use by at least one layer of carrier particles such that during relative movement between the applicator and the imaging surface, the carrier particles therebetween are caused to make rotational movements. The resulting shearing action on the toner particles, together with the electric field, produces a migration of toner particles towards the imaging surface.

IPC 1-7

G03G 15/09; **G03G 13/09**

IPC 8 full level

G03G 15/09 (2006.01)

CPC (source: EP)

G03G 15/09 (2013.01)

Cited by

EP0129355A3; DE3540638A1; EP0371734A3; EP0371735A3; EP0371737A3; EP0085503A1

Designated contracting state (EPC)

AT BE CH DE FR GB NL

DOCDB simple family (publication)

EP 0041399 A2 19811209; **EP 0041399 A3 19820203**; **EP 0041399 B1 19850130**; AU 547726 B2 19851031; AU 7117181 A 19811210; BR 8103447 A 19820224; CA 1169716 A 19840626; DE 3168598 D1 19850314; ES 502718 A0 19830201; ES 519510 A0 19840516; ES 8304674 A1 19830201; ES 8405167 A1 19840516; MX 153982 A 19870318

DOCDB simple family (application)

EP 81302440 A 19810602; AU 7117181 A 19810529; BR 8103447 A 19810601; CA 377464 A 19810513; DE 3168598 T 19810602; ES 502718 A 19810602; ES 519510 A 19830203; MX 18758581 A 19810601