

Title (en)
Recording apparatus.

Title (de)
Aufnahmegerät.

Title (fr)
Appareil d'enregistrement.

Publication
EP 0459607 A2 19911204 (EN)

Application
EP 91300504 A 19910123

Priority
JP 14297090 A 19900531

Abstract (en)
The recording apparatus comprises an electrostatic latent image base (1), charging means (13) for equally charging the surface of the electrostatic latent image base (1), means for attenuating part of electric charges on the surface of the electrostatic latent image base charged by the charging means and for forming an electrostatic latent image, developing means (3) for adhering toner particles on the electrostatic latent image so as to form a toner image, and transferring means (5) for transferring the toner image onto an image base. The developing means (3) attracts and collects residual toner particles into the developing means and develops the electrostatic latent image at the same time. The charging means (13) has a particular charging function and a residual toner image equalizing function for disturbing a residual toner image left on the electrostatic latent image base and for equalizing the distribution of the toner particles. The charging and residual toner image equalizing means securely charges the electrostatic latent image base and equalizes the residual toner particles at the same time. The recording apparatus can be readily structured in small size and at low cost. The recording apparatus is free from contamination due to by-product in the discharging operation. Furthermore, the recording apparatus can usually output ghost-free high quality images. <IMAGE>

IPC 1-7
G03G 15/02; **G03G 15/08**; **G03G 21/00**

IPC 8 full level
G03G 15/02 (2006.01); **G03G 15/08** (2006.01); **G03G 15/22** (2006.01); **G03G 21/00** (2006.01); **G03G 21/06** (2006.01); **G03G 21/10** (2006.01)

CPC (source: EP KR)
G03G 15/00 (2013.01 - KR); **G03G 15/0216** (2013.01 - EP); **G03G 15/0291** (2013.01 - EP); **G03G 15/08** (2013.01 - EP);
G03G 21/0064 (2013.01 - EP); **G03G 2215/022** (2013.01 - EP); **G03G 2221/0005** (2013.01 - EP)

Cited by
EP0649073A3; US5659852A; EP0575159A3; EP0709746A1; EP0691593A3; US5587774A; EP0713161A3; EP0712057A1; US5678142A;
EP0594140A3; EP0474220A3; US5351109A; EP0992865A3; US6341207B1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0459607 A2 19911204; **EP 0459607 A3 19920902**; **EP 0459607 B1 19950823**; DE 69112281 D1 19950928; DE 69112281 T2 19960215;
JP 2856506 B2 19990210; JP H0434566 A 19920205; KR 910020509 A 19911220; KR 950013418 B1 19951108

DOCDB simple family (application)
EP 91300504 A 19910123; DE 69112281 T 19910123; JP 14297090 A 19900531; KR 910001715 A 19910131