

## Europäisches Patentamt European Patent Office Office européen des brevets



(11) **EP 1 467 261 A8** 

(12) CORRECTED EUROPEAN PATENT APPLICATION

Note: Bibliography reflects the latest situation

(15) Correction information:

Corrected version no 1 (W1)

Corrected version no 1 (W1 A1) INID code(s) 71

(48) Corrigendum issued on: **29.12.2004 Bulletin 2004/53** 

(43) Date of publication:

13.10.2004 Bulletin 2004/42

(21) Application number: 04008633.2

(22) Date of filing: 08.04.2004

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR Designated Extension States:

AL HR LT LV MK

(30) Priority: 11.04.2003 JP 2003107786

17.07.2003 JP 2003198662

(71) Applicant: Ricoh Company, Ltd.

Tokyo 143-8555 (JP)

(72) Inventor: Suzuki, Yuji Tokyo 143-8555 (JP)

(51) Int CI.7: **G03G 15/02** 

(74) Representative: Schwabe - Sandmair - Marx Stuntzstrasse 16 81677 München (DE)

- (54) Image forming apparatus for preventing image deterioration caused by fallen conductive brush and scatter of developer
- (57)An image forming apparatus includes a latent image carrier, a charging member, a conductive brush member that cleans the charging member, a developer carrier including magnetic field generating devices having main and auxiliary magnetic poles, a developer scatter preventing member, and a toner accumulation preventing member. A contact pressure of an end portion of the developer scatter preventing member relative to the latent image carrier is set such that a brush, which falls from the conductive brush member and is carried on the latent image carrier, passes through a contact part between the end portion of the developer scatter preventing member and the latent image carrier. The main magnetic pole has an angular width of about 60 degrees or less between opposite pole transition points respectively positioned upstream and downstream of a flux density of the main magnetic pole in the normal direction in a developer conveying direction.



