

Title (en)  
Developing device

Title (de)  
Entwicklungsvorrichtung

Title (fr)  
Dispositif de développement

Publication  
**EP 0967528 A3 20010131 (EN)**

Application  
**EP 99111926 A 19990622**

Priority  
JP 17426098 A 19980622

Abstract (en)  
[origin: EP0967528A2] A developing device for developing an electrostatic latent image on a photoconductive member has a developing roller that bears a one-component developer on its surface and develops the electrostatic latent image by contacting the photoconductive member; a supply roller for supplying developer to the developing roller; and a blade that contacts the developing roller so as to regulate a layer thickness of the developer supplied by the supply roller, wherein supposing that the developer has a volume-average particle size represented by  $Dbk$ , the developer at this time being maintained on the developing roller as a layer that has been supplied by the supply roller and again formed so as to have a predetermined thickness by the blade after the developing roller, on which the developer was formed as a layer having a predetermined thickness, carried out a black-image developing process, and supposing that the volume-average particle size of the developer is  $Dwt$ , the developer at this time being maintained on the developing roller as a layer that has been supplied by the supply roller and again formed so as to have a predetermined thickness by the blade after the developing roller, on which the developer was formed as a layer having a predetermined thickness, carried out a white-image developing process, an inequality,  $Dwt/Dbk > 0.8$ , is satisfied. <IMAGE>

IPC 1-7  
**G03G 13/08**; **G03G 15/08**

IPC 8 full level  
**G03G 9/08** (2006.01); **G03G 13/08** (2006.01); **G03G 15/08** (2006.01)

CPC (source: EP)  
**G03G 13/08** (2013.01)

Citation (search report)

- [E] EP 0939349 A2 19990901 - SHARP KK [JP]
- [XY] US 5477006 A 19951219 - IMAMIYA KOJI [JP], et al
- [X] US 5387967 A 19950207 - BREWINGTON GRACE T [US], et al
- [X] US 4987454 A 19910122 - NATSUHARA TOSHIYA [JP], et al
- [Y] PATENT ABSTRACTS OF JAPAN vol. 017, no. 611 (P - 1641) 10 November 1993 (1993-11-10)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 04 31 March 1998 (1998-03-31)

Cited by  
US7860436B2

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**EP 0967528 A2 19991229**; **EP 0967528 A3 20010131**; **EP 0967528 B1 20030903**; CN 1120388 C 20030903; CN 1246663 A 20000308; DE 69910907 D1 20031009; DE 69910907 T2 20040722; JP 2000010404 A 20000114

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