

Title (en)

LIQUID DEVELOPING METHOD OF ELECTROSTATIC LATENT IMAGE AND LIQUID DEVELOPING APPARATUS

Title (de)

VERFAHREN UND GERÄT ZUR FLÜSSIGENTWICKLUNG EINES ELEKTROSTATISCHEN LATENTEN BILDES

Title (fr)

PROCEDE UTILISANT UN REVELATEUR LIQUIDE POUR DEVELOPPER UNE IMAGE ELECTROSTATIQUE LATENTE ET APPAREIL DE DEVELOPPEMENT A REVELATEUR LIQUIDE

Publication

EP 0760494 A4 19970813 (EN)

Application

EP 95905235 A 19950110

Priority

- JP 9500012 W 19950110
- JP 1316794 A 19940110

Abstract (en)

[origin: EP0760494A1] This invention relates to an electrostatic latent image liquid developing method and liquid developing apparatus that can prevent adhesion of toner to the non-image parts on the image bearing member and thereby prevent the occurrence of image inaccuracies. The method provides a pre-wetting process that applies pre-wet liquid to photosensitive member 10 and a developing process. In the developing process, a thin layer of a highly viscous liquid developing agent, in which toner is dispersed at a high concentration in a non-conductive liquid, is formed on the elastic developing roller 506. Developing roller 506 is rotated and, at the same time, the liquid developing agent layer on developing roller 506 is brought into contact with the pre-wet liquid layer on photosensitive member 10 in order to supply liquid developing agent to the latent image on photosensitive member 10. Thus, the toner develops the electrostatic latent image formed on photosensitive member 10. <IMAGE>

IPC 1-7

G03G 15/10

IPC 8 full level

G03G 15/10 (2006.01)

CPC (source: EP)

G03G 15/10 (2013.01); **G03G 15/101** (2013.01)

Citation (search report)

- [XY] WO 9301531 A1 19930121 - SPECTRUM SCIENCES BV [NL]
- [A] US 4905047 A 19900227 - ARIYAMA KENZO [JP]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 004, no. 107 (P - 021) 31 July 1980 (1980-07-31)
- [YA] PATENT ABSTRACTS OF JAPAN vol. 011, no. 383 (P - 646) 15 December 1987 (1987-12-15)
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 195 (P - 379) 13 August 1985 (1985-08-13)
- [A] PATENT ABSTRACTS OF JAPAN vol. 004, no. 160 (P - 035) 8 November 1980 (1980-11-08)
- See references of WO 9518993A1

Cited by

EP2685321A1; EP0935173A4; DE19841266C2; US7995953B2; WO2007028205A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0760494 A1 19970305; EP 0760494 A4 19970813; EP 0760494 B1 20020424; AT E216785 T1 20020515; DE 69526499 D1 20020529; DE 69526499 T2 20030109; WO 9518993 A1 19950713

DOCDB simple family (application)

EP 95905235 A 19950110; AT 95905235 T 19950110; DE 69526499 T 19950110; JP 9500012 W 19950110