Title (en)

Liquid developers having curable liquid vehicles.

Title (de)

Flüssigentwickler mit härtbaren flüssigen Trägermaterialien.

Title (fr)

Révélateur liquide comportant des matériaux porteurs liquides durcissables.

Publication

EP 0455343 A1 19911106 (EN)

Application

EP 91302757 A 19910328

Priority

US 50158590 A 19900330

Abstract (en)

Disclosed is a liquid developer comprising a colorant and a substantial amount of a curable liquid vehicle having a viscosity of no more than about 500 centipoise and a resistivity of no less than about 10<8> ohm-cm. One embodiment of the invention is an electrophoretic liquid developer comprising a substantial amount of a curable liquid vehicle having a viscosity of no more than about 20 centipoise and a resistivity of no less than about 5 x 10<9> ohm-cm, a charge control agent, and colored particles capable of becoming charged and migrating through the liquid vehicle to develop an electrostatic latent image. Another embodiment of the invention is a polarizable liquid developer comprising a colorant and a substantial amount of a curable liquid vehicle having a viscosity of from about 25 to about 500 centipoise and a resistivity of from about 10<8> to about 10<1><1> ohm-cm. Yet another embodiment of the invention is a photoelectrophoretic liquid developer comprising a substantial amount of a curable liquid vehicle having a viscosity of no more than about 20 centipoise and a resistivity of no less than about 5 x 10<9> ohm-cm and photosensitive colored particles.

IPC 1-7

G03G 9/12; G03G 9/125; G03G 9/13; G03G 17/04

IPC 8 full level

G03G 9/12 (2006.01); **G03G 9/125** (2006.01); **G03G 9/13** (2006.01); **G03G 17/04** (2006.01)

CPC (source: EP)

G03G 9/12 (2013.01); **G03G 9/125** (2013.01); **G03G 9/131** (2013.01); **G03G 17/04** (2013.01)

Citation (search report)

- [X] US 4473626 A 19840925 - MOLAIRE MICHEL F [US], et al
- [XD] PATENT ABSTRACTS OF JAPAN, vol. 10, no. 361 (P-523)[2418], 4th December 1986; & JP-A-61 156 261 (RICOH CO.) 15-07-1986
- [XD] PATENT ABSTRACTS OF JAPAN, vol. 12, no. 417 (P-782)[3264], 7th November 1988; & JP-A-63 155 055 (RICOH CO.) 28-06-1988
- [XD] PATENT ABSTRACTS OF JAPAN, vol. 11 no. 194 (P-588)[2641], 23rd June 1987; & JP-A-62 18 575 (RICOH CO.) 27-01-1987
- [XD] PATENT ABSTRACTS OF JAPAN, vol. 11, no. 331 (P-630)[2778], 29th October 1987; & JP-A-62 115 171 (RICOH CO.) 26-05-1987
- [A] PROCEEDINGS OF THE THIRD INTERNATIONAL CONGRESS ON ADVANCES IN NON-IMPACT PRINTING TECHNOLOGIES, San Francisco, CA, 24th - 28th August 1986, pages 100-112; J.M. CROWLEY et al.: "Image development by electrostatic lithography"
- [A] DATABASE WPIL, accession no. 90-096259 [13], Derwent Publications Ltd, London, GB; & PATENT ABSTRACTS OF JAPAN, vol. 14, no. 215 (C-716)[4158], 8th May 1990; & JP-A-2 049 088 (SHOWA DENKO K.K.) 19-02-1990

Cited by

WO2017186724A1; US8931412B2; EP1607799A1; EP0511860A1; CN106909034A; EP2348363A1; EP1973003A1; JPH0772669A; KR101449778B1; EP1610186A3; EP2520579A3; EP2749955A1; EP0605108A3; US5998081A; EP3151067A1; US8383314B2; US8501381B2; US7351511B2; US10372053B2; WO2008113582A1; WO2015000529A1; WO2005083526A3; US10627745B2; US8871861B2; US9098004B2; US6261732B1; US9971268B2

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