

Title (en)  
Electrophotographic image forming method

Title (de)  
Elektrofotografisches Bilderzeugungsverfahren

Title (fr)  
Procédé de formation d'images électro-photographiques

Publication  
**EP 2065757 A1 20090603 (EN)**

Application  
**EP 07121966 A 20071130**

Priority  
EP 07121966 A 20071130

Abstract (en)  
An image forming method including electrostatic image forming step, developing step, transferring step, fixing step and oil application step for applying an oil to a fixing member, wherein the toner includes a binder resin, a colorant and a wax, and the relationship  $(A2/A1) \times 100 < 200$  is satisfied, wherein A1 represents the area of the oil dropped on a pellet of the toner measured 30 seconds after dropping the oil, and A2 represents the area of the dropped oil measured 24 hours after dropping the oil. Alternatively, the relationships  $(X1 - X2) < 0.5$  atomic percent,  $X1 > 1.0$  atomic percent, and  $X2 > 1.0$  atomic percent, are satisfied, wherein X1 and X2 represent amounts of Si atoms of the silicone oil measured by subjecting the toner image to X-ray photoelectron spectroscopy at times 5 minutes and 24 hours, respectively, after fixing the toner image.

IPC 8 full level  
**G03G 9/087** (2006.01); **G03G 11/00** (2006.01); **G03G 15/00** (2006.01); **G03G 15/20** (2006.01)

CPC (source: EP)  
**G03G 9/08755** (2013.01); **G03G 9/08782** (2013.01); **G03G 9/08795** (2013.01); **G03G 11/00** (2013.01); **G03G 15/2025** (2013.01)

Citation (applicant)  

- JP S6090344 A 19850521 - CANON KK
- JP S6415755 A 19890119 - MITSUBISHI RAYON CO
- JP H0282267 A 19900322 - ARAKAWA CHEM IND
- JP H03229264 A 19911011 - CANON KK
- JP H0341470 A 19910221 - NIPPON SYNTHETIC CHEM IND, et al
- JP H11305486 A 19991105 - KONISHIROKU PHOTO IND
- JP S6263940 A 19870320 - KONISHIROKU PHOTO IND
- JP H11249339 A 19990917 - SANYO CHEMICAL IND LTD
- JP 2001222138 A 20010817 - KAO CORP
- JP 2002214833 A 20020731 - RICOH KK

Citation (search report)  

- [X] EP 1168089 A1 20020102 - RICOH KK [JP]
- [X] JP 2006330320 A 20061207 - RICOH KK
- [X] EP 1111474 A2 20010627 - CANON KK [JP]
- [XY] EP 1291726 A2 20030312 - CANON KK [JP]
- [XY] EP 1172703 A2 20020116 - CANON KK [JP]
- [XY] EP 1065569 A2 20010103 - CANON KK [JP]
- [Y] US 2006110543 A1 20060525 - GERVASI DAVID J [US], et al
- [Y] US 2004109710 A1 20040610 - SAWAHATA SHO [JP], et al
- [X] DATABASE WPI Week 200735, Derwent World Patents Index; AN 2007-366057, XP002478505 & JP 2007047738 A 20070222 - RICOH KK

Cited by  
DE102011004720B4; JP2019109438A; JPWO2018062013A1; US11392051B2; US8304155B2; WO2019124432A1; WO2009145866A1; WO2018062013A1

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