

Title (en)  
Electrophotographic toner.

Title (de)  
Elektrophotographischer Toner.

Title (fr)  
Toner électrophotographique.

Publication  
**EP 0479285 A1 19920408 (EN)**

Application  
**EP 91116862 A 19911002**

Priority  
• JP 5272491 A 19910318  
• JP 26882090 A 19901005

Abstract (en)  
The electrophotographic toner in accordance with the present invention comprises a binder resin, a coloring agent, an electric charge controlling agent and a release agent, said electric charge controlling agent being represented by the following general formula (1): <CHEM> (wherein R<1>, R<2>, R<3>, R<4>, Y and Z<+> are defined as in the specification), said electric charge controlling agent having a pH value in a range from 3 to 5. With the use of the toner of the present invention, stable images can be reproduced with toner scattering effectively prevented.

IPC 1-7  
**G03G 9/097**

IPC 8 full level  
**G03G 9/09** (2006.01); **G03G 9/097** (2006.01)

CPC (source: EP KR)  
**G03G 9/08** (2013.01 - KR); **G03G 9/091** (2013.01 - EP); **G03G 9/09783** (2013.01 - EP)

Citation (search report)  
• [A] US 4954409 A 19900904 - AOKI TAKAYOSHI [JP], et al  
• [A] EP 0291930 A2 19881123 - CANON KK [JP]  
• [A] EP 0360617 A2 19900328 - HITACHI CHEMICAL CO LTD [JP]  
• [A] DATABASE WPIL, no. 89-111597 [15] Derwent Publications Ltd., London, GB, & JP-A-1059238 (MITA IND., K.K.)  
• [A] DATABASE WPIL, no. 90-027557 [04] Derwent Publications Ltd., London, GB & JP-A-1306864 (BANDO CHEM., IND.)

Cited by  
US6627368B2; EP1168090A1; US8785099B2

Designated contracting state (EPC)  
DE ES FR GB IT NL

DOCDB simple family (publication)  
**EP 0479285 A1 19920408; EP 0479285 B1 19970312**; CA 2052571 A1 19920406; DE 69125083 D1 19970417; DE 69125083 T2 19971016; ES 2100916 T3 19970701; KR 920008541 A 19920528; KR 950001824 B1 19950303

DOCDB simple family (application)  
**EP 91116862 A 19911002**; CA 2052571 A 19911001; DE 69125083 T 19911002; ES 91116862 T 19911002; KR 910017353 A 19911004