

Title (en)

ELECTROSTATIC TONERS CONTAINING A KETO COMPOUND AS CHARGE STABILIZER

Title (de)

ELEKTROSTATISCHER TONER, ENTHALTEND EINE KETOVERBINDUNG ALS LADUNGSSTABILISATOR

Title (fr)

TONER ELECTROSTATIQUE CONTENANT UN COMPOSE CETONIQUE COMME STABILISATEUR DE LA CHARGE

Publication

**EP 0576472 B1 19960828 (DE)**

Application

**EP 92906365 A 19920311**

Priority

- DE 4109086 A 19910320
- EP 9200534 W 19920311

Abstract (en)

[origin: WO9216878A1] The invention discloses electrostatic toners containing a polymer binder and as charge stabilizer a compound of formula (I), wherein Z stands for a C1?-C20? alkyl, possibly substituted with phenyl, C5?-C7? cycloalkyl or possibly substituted phenyl, X and Y stand for cyano or a residue of formula -CO-OR?1, -CO-NR?1R?2 or -CO-R?3, wherein R?1 stands for C1?-C20? alkyl, possibly substituted by phenyl, or C5?-C7? cycloalkyl R?2 stands for hydrogen or C1?-C4? alkyl and R?3 for C1?-C20? alkyl, possibly substituted by phenyl, C5?-C7? cycloalkyl or possibly substituted phenyl, or X and Y together stand for a residue of formula -CO-L-CO- or -CO-CH=C(CH3?)-O-CO-, wherein L stands for C2?-C4? alkylene and Kat?+ stands for the equivalent of a cation. Also disclosed is the use of the above mentioned compounds as charge stabilizers in electrostatic toners.

IPC 1-7

**G03G 9/135**; **G03G 9/097**

IPC 8 full level

**G03G 9/097** (2006.01); **G03G 9/135** (2006.01)

CPC (source: EP KR US)

**G03G 9/0975** (2013.01 - EP US); **G03G 9/135** (2013.01 - KR)

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

**WO 9216878 A1 19921001**; CA 2099570 A1 19920921; DE 4109086 A1 19920924; DE 59207011 D1 19961002; EP 0576472 A1 19940105; EP 0576472 B1 19960828; ES 2090613 T3 19961016; JP H06505812 A 19940630; KR 930703632 A 19931130; US 5338639 A 19940816

DOCDB simple family (application)

**EP 9200534 W 19920311**; CA 2099570 A 19920311; DE 4109086 A 19910320; DE 59207011 T 19920311; EP 92906365 A 19920311; ES 92906365 T 19920311; JP 50551192 A 19920311; KR 930702097 A 19930713; US 9004293 A 19930720