

Title (en)

Use of inner-polyelectrolyte complexes as charge controlling agent

Title (de)

Verwendung von Inter-Polyelektrolyt-Komplexen als Ladungssteuermittel

Title (fr)

Utilisation de complexes polyélectrolytes internes comme agents de contrôle de charge

Publication

**EP 0895131 A3 19991222 (DE)**

Application

**EP 98113654 A 19980722**

Priority

DE 19732995 A 19970731

Abstract (en)

[origin: EP0895131A2] Inter-polyelectrolyte complexes (I) are used as charge regulators and enhancers in electrophotographic toners and developers, in powders and powder lacquers suitable for triboelectric or electrokinetic spraying and in electret materials. Also claimed are electrophotographic toners, powders and powder lacquers containing (I), a styrene, styrene-acrylate, styrene-butadiene, acrylate, urethane or acrylic resin or a polyester and/or epoxide resin and 0.01-50, preferably 0.5-20 wt.% complex(es) (I).

IPC 1-7

**G03G 9/087**; **G03G 9/097**

IPC 8 full level

**C09D 5/46** (2006.01); **C09K 3/16** (2006.01); **G03G 9/087** (2006.01); **G03G 9/097** (2006.01)

CPC (source: EP KR US)

**G03G 9/00** (2013.01 - KR); **G03G 9/08791** (2013.01 - EP US); **G03G 9/097** (2013.01 - EP US); **G03G 9/09741** (2013.01 - EP US); **G03G 9/0975** (2013.01 - EP US); **Y10S 977/776** (2013.01 - EP US)

Citation (search report)

- [X] EP 0576172 A2 19931229 - XEROX CORP [US]
- [X] EP 0644463 A2 19950322 - HOECHST AG [DE]
- [X] EP 0603463 A2 19940629 - GORE & ASS [DE]
- [X] US 5019723 A 19910528 - TRAN LOI H [US]
- [X] EP 0476647 A1 19920325 - HOECHST AG [DE]
- [X] EP 0609718 A2 19940810 - HOECHST AG [DE]
- [X] EP 0615007 A1 19940914 - HOECHST AG [DE]
- [A] EP 0623941 A2 19941109 - HOECHST CELANESE CORP [US]
- [X] DATABASE WPI Week 8302, Derwent World Patents Index; AN 83-03621k, XP002118582
- [DL] B. PHILIPP ET AL.: "Polyelektrolytkomplexe-Bildungsweise, Struktur und Anwendungsmöglichkeiten", ZEITSCHRIFT FÜR CHEMIE, vol. 22, no. 1, January 1982 (1982-01-01), DDR, pages 1 - 13, XP002118578

Cited by

EP1019174B1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 0895131 A2 19990203**; **EP 0895131 A3 19991222**; BR 9803725 A 19991103; CA 2244367 A1 19990131; CN 1209571 A 19990303; DE 19732995 A1 19990204; JP 3822365 B2 20060920; JP H11124565 A 19990511; KR 19990014297 A 19990225; TW 396299 B 20000701; US 6030738 A 20000229

DOCDB simple family (application)

**EP 98113654 A 19980722**; BR 9803725 A 19980730; CA 2244367 A 19980730; CN 98117847 A 19980730; DE 19732995 A 19970731; JP 21610698 A 19980730; KR 19980030822 A 19980730; TW 87112478 A 19980729; US 12620498 A 19980730