

Title (en)

Oxidative age resistance of surface oxidized roller

Title (de)

Oxidationsalterungsbeständige Walze mit oxidierte Oberfläche

Title (fr)

Rouleau à surface oxydée présentant une résistance au vieillissement relativement à l'oxydation

Publication

EP 0878748 B1 20030219 (EN)

Application

EP 98303801 A 19980514

Priority

- US 4644497 P 19970514
- US 97960097 A 19971126

Abstract (en)

[origin: EP0878748A1] An electrophotographic developer roller is made by casting urethane prepolymer mixed with a polybutadiene, a trifunctional curative, ferric chloride powder, and an antioxidant. After curing, the roller is baked, which oxidizes the outer surface. The oxidized surface layer is electrically resistive, which is desirable in a developer roller. An excellent developer roller is achieved at low production cost. The antioxidant provides stable electrical characteristics over extended time periods.

IPC 1-7

G03G 15/08

IPC 8 full level

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CPC (source: EP KR)

G03G 5/00 (2013.01 - KR); **G03G 15/0818** (2013.01 - EP)

Cited by

EP1202861A4; EP1123178A4; GB2342728A; GB2342728B

Designated contracting state (EPC)

DE FR GB

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EP 0878748 A1 19981118; **EP 0878748 B1 20030219**; CN 1204464 C 20050601; CN 1205456 A 19990120; DE 69811424 D1 20030327; DE 69811424 T2 20031218; JP H1195542 A 19990409; KR 100514056 B1 20060112; KR 19980087055 A 19981205; TW 416025 B 20001221

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EP 98303801 A 19980514; CN 98114883 A 19980514; DE 69811424 T 19980514; JP 17047098 A 19980514; KR 19980017430 A 19980514; TW 87107477 A 19980804