Title (en)

DIELECTRIC COATING FOR RECORDING MEMBER

Publication

EP 0267787 A3 19900425 (EN)

Application

EP 87309968 A 19871111

Priority

US 92965086 A 19861112

Abstract (en)

[origin: EP0267787A2] This invention relates to a recording member for the electrographic recording of toner images thereon. Kotz, U.S. Patent No. 3,816,840 discloses an electrographic recording process and apparatus in which a dielectric recording member is arranged between two electrodes. Selection of a recording member for use with the foregoing apparatus may be constrained by at least three factors: (1) Electrical charge must be essentially completely removed from the recording member within one operating cycle of the process; (2) Durability of the recording member must be sufficient in order to allow the process to be economically feasible; (3) Contrast between toner powder and the recording member can be specified to be high, e.g. at least 0.6 optical density units. This invention provides a recording member comprising a conductive substrate having a dielectric coating thereon. The dielectric coating contains a charge build-up inhibitor to allow the recording member to be used for a large number of cycles of image-formation and image-removal with virtually no build-up of charge or deterioration of image quality, and the surface of the coating is sufficiently durable to allow the recording member to be used repeatedly before the recording member needs to be replaced.

IPC 1-7

G03G 5/02

IPC 8 full level

G03G 5/02 (2006.01); **G03G 15/05** (2006.01)

CPC (source: EP)

G03G 5/0202 (2013.01)

Citation (search report)

- [YD] US 3816840 A 19740611 - KOTZ A
- [Y] US 3946402 A 19760323 - LUNDE GEORGE G
- [Y] US 4402000 A 19830830 - FABEL GEORGE W [US], et al
- [Y] FR 2319927 A1 19770225
- [A] CHEMICAL ABSTRACTS, vol. 103, 1985, page 574, abstract no. 62519e, Columbus, Ohio, US; & JP-A-60 057 346 (CANON K.K.) 03-04-1985

Cited by

EP0360571A3; FR2660894A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0267787 A2 19880518; **EP 0267787 A3 19900425**; **EP 0267787 B1 19950125**; DE 3751026 D1 19950309; JP S63141065 A 19880613

DOCDB simple family (application)

EP 87309968 A 19871111; DE 3751026 T 19871111; JP 28515987 A 19871111