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(54) Dielectric coating for recording member.

(57) 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.

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y,D	US-A-3 816 840 (KOTZ) * Figure 9; claims * ---	1-13	G 03 G 5/02
Y	US-A-3 946 402 (LUNDE) * Figure 1; claims 1-8 * ---	1-13	
Y	US-A-4 402 000 (FABEL et al.) * Figure 2; claim 1 * ---	1-13	
A	CHEMICAL ABSTRACTS, vol. 103, 1985, page 574, abstract no. 62519e, Columbus, Ohio, US; & JP-A-60 57 346 (CANON K.K.) 03-04-1985 * Abstract * ---	1-13	
Y	FR-A-2 319 927 (JAPAN SYNTHETIC RUBBER) * Page 8, line 33 - page 9, line 5 * -----	1-13	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			G 03 G 5 G 03 G 17
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12-01-1990	Examiner MAGRIZOS S.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			