Title (en)

TONER AND PROCESS FOR PREPARATION THEREOF

Publication

EP 0306330 A3 19890809 (EN)

Application

EP 88308153 A 19880902

Priority

JP 22112687 A 19870902

Abstract (en)

[origin: EP0306330A2] Toner particles are described, each particle comprising a spheroidal resin core, a pigment layer on the surface of said core and a layer of a static electrification controlled resin on the surface of said pigment layer. The state of static electrification of the toner is substantially determined by that of the outermost layer of the static electrification controlled resin, and thus can be precisely controlled by simply controlling the amount of static electrification of the resin particles used to form the outermost layer. Since the state of static electrification of the toner can be precisely controlled, the kind and concentration of the pigment used can be freely selected. The presence of the outermost layer 3 prevents the pigment from breaking away from the toner. Further, it is possible to improve the fluidity and anti-block properties of the toner without any adverse effect. In addition, it is not necessary to use an additional static electrification controlling agent such as silica which might adversely affect the color shade of the toner.

IPC 1-7

G03G 9/08

IPC 8 full level

B01J 13/02 (2006.01); **G03G 9/08** (2006.01); **G03G 9/087** (2006.01)

CPC (source: EP KR)

G03G 5/00 (2013.01 - KR); **G03G 9/0802** (2013.01 - EP); **G03G 9/0825** (2013.01 - EP)

Citation (search report)

- [A] FR 2571515 A1 19860411 - CANON KK [JP]
- [A] PATENT ABSTRACTS OF JAPAN, vol. 11, no. 259 (C-441)[2706], 21st August 1987; & JP-A-62 061 632 (JAPAN SYNTHETIC RUBBER CO., LTD) 18-03-1987

Cited by

EP0570679A1; US5320926A; EP0362859A3; US5215854A; US7553600B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0306330 A2 19890308; **EP 0306330 A3 19890809**; JP S6462666 A 19890309; KR 890005577 A 19890515

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EP 88308153 A 19880902; JP 22112687 A 19870902; KR 880011334 A 19880902