

Title (en)

Positively-charging mono-component toner and developing method using same

Title (de)

Positiv geladener Einkomponententoner und Entwicklungsverfahren unter seiner Verwendung

Title (fr)

Poudre de toner à chargement positif et procédé de développement l'utilisant

Publication

EP 0703502 B1 20031029 (EN)

Application

EP 95305134 A 19950721

Priority

- JP 17087894 A 19940722
- JP 21975594 A 19940914

Abstract (en)

[origin: EP0703502A1] A positively-charging mono-component non-magnetic toner contains at least a binder resin and a coloring agent, wherein the binder resin is a polyester resin having an acid value of 5 mgKOH/g or below, and the toner has the maximum positive charge of 30 μ C/g or below. And, a positively-charging mono-component toner contains at least a binder resin and a coloring agent, wherein the toner has a surface energy γ_s of 30 to 40 mN/m. A developing method using a positively-charging mono-component toner uses a toner having a surface energy γ_s of 30 to 40 mN/m as the positively-charging mono-component toner, and the toner for developing an electrostatic latent image has a total charge of 2 μ C/g or above, or a total charge charged to a opposite polarity when developing an electrostatic latent image is 20% or below of the absolute value of a total charge charged to a normal polarity.

IPC 1-7

G03G 9/087; **G03G 9/08**

IPC 8 full level

G03G 9/08 (2006.01); **G03G 9/087** (2006.01)

CPC (source: EP)

G03G 9/0821 (2013.01); **G03G 9/0823** (2013.01); **G03G 9/08755** (2013.01); **G03G 9/08782** (2013.01); **G03G 9/0819** (2013.01)

Cited by

US5804347A; EP0747774A3

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 0703502 A1 19960327; **EP 0703502 B1 20031029**; CN 1119706 C 20030827; CN 1129816 A 19960828; DE 69532023 D1 20031204; DE 69532023 T2 20050324

DOCDB simple family (application)

EP 95305134 A 19950721; CN 95115258 A 19950721; DE 69532023 T 19950721