

Title (en)

Method for using hard magnetic carriers in an electrographic process

Title (de)

Elektrophotographisches Verfahren unter Benutzung von Hartmagnetträgern

Title (fr)

Méthode électrophotographique utilisant des particules de support contenant un matériau magnétique dur

Publication

EP 1156375 A3 20020821 (EN)

Application

EP 01111258 A 20010516

Priority

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- US 57298800 A 20000517
- US 57298900 A 20000517

Abstract (en)

[origin: EP1156375A2] Methods for development of an electrostatic image are disclosed that utilize developer compositions with hard magnetic carrier compositions which can provide improved development efficiencies and reduced amounts of image carrier pick-up. The methods utilize hard magnetic carrier particles that are modified to have specific levels of resistivity, such as, for example, of from about 1×10^{-5} ohm-cm to about 1×10^{-10} ohm-cm, and a carrier charge-to-mass of greater than about 1.0 μ C/g, which carriers can provide greater development speeds without unacceptable levels of image carrier pick-up. In embodiments, the hard magnetic materials are doped, i.e., bulk substituted, with multi-valent metals to adjust resistivity, while in other embodiments, the hard magnetic materials are coated with at least one multi-valent metal oxide. <IMAGE>

IPC 1-7

G03G 9/107; **G03G 15/09**; **G03G 9/083**; **G03G 9/113**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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EP 1156375 A2 20011121; **EP 1156375 A3 20020821**; AU 5976401 A 20011126; CA 2375345 A1 20011122; JP 2003533745 A 20031111; WO 0188623 A1 20011122

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