

Title (en)
Non-magnetic one-component developer

Title (de)
Nichtmagnetischer Einkomponententwickler

Title (fr)
Développeur non magnétique à un composant

Publication
EP 0438245 B1 19970618 (EN)

Application
EP 91300232 A 19910114

Priority
• JP 461490 A 19900116
• JP 40965790 A 19901211
• JP 40967790 A 19901211

Abstract (en)
[origin: EP0438245A2] A non-magnetic one-component developer suitable for use in a contact or non-contact development system. The developer comprises 100 parts by weight of colored fine particles, which comprises a binder resin and a colorant, and 0.3-10 parts by weight of at least one fine inorganic powder selected from (i) a fine inorganic powder (I) obtained by subjecting a fine inorganic powder having an average particle size of 0.1-10 μm and a heating loss (under drying conditions of 150 DEG C and 1 hour) of at most 1 wt.% to a hydrophobicity-imparting treatment with a silicone oil and (ii) a fine inorganic powder (II) obtained by subjecting a fine inorganic powder having an average particle size of 0.1-10 μm to a two-step hydrophobicity-imparting treatment with at least one compound selected from silane coupling agents and silazane compounds and then further with a silicone oil.

IPC 1-7
G03G 9/097

IPC 8 full level
G03G 9/097 (2006.01)

CPC (source: EP US)
G03G 9/09716 (2013.01 - EP US)

Cited by
US5397670A; EP0609870A1; EP0774696A3; US5695902A; EP0863444A1; US5900315A; US5989768A

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0438245 A2 19910724; EP 0438245 A3 19910911; EP 0438245 B1 19970618; AU 652138 B2 19940818; AU 6935491 A 19910718;
DE 69126549 D1 19970724; DE 69126549 T2 19971113

DOCDB simple family (application)
EP 91300232 A 19910114; AU 6935491 A 19910114; DE 69126549 T 19910114