

Title (en)

Black magnetic composite particles and black magnetic toner using the same

Title (de)

Schwarzes teilchenförmiges magnetisierbares Verbundmaterial und schwarzer magnetischer Toner das dieses enthält

Title (fr)

Particules composites magnétisables noires et révélateur magnétique noir les contenant

Publication

**EP 0936507 A3 19991117 (EN)**

Application

**EP 99301117 A 19990216**

Priority

JP 5282698 A 19980217

Abstract (en)

[origin: EP0936507A2] Black magnetic composite particles for a black magnetic toner comprising: (a) magnetic iron oxide particles having an average particle diameter of from 0.055 to 0.95  $\mu\text{m}$ ; (b) a coating on the surface of said magnetic iron oxide particles, comprising at least one organosilicon compound selected from: (1) organosilane compounds obtainable by drying or heat-treating alkoxy silane compounds, (2) polysiloxanes or modified polysiloxanes, and (3) fluoroalkyl organosilane compounds obtainable by drying or heat-treating fluoroalkyl silane compounds; and (c) carbon black fine particles adhered on at least a part of said coating, which have a particle size of from 0.002 to 0.05  $\mu\text{m}$  and which are present in an amount of from 1 to 25 parts by weight per 100 parts by weight of said magnetic iron oxide particles.

IPC 1-7

**G03G 9/083**; **G03G 9/09**; **C01G 49/00**

IPC 8 full level

**G03G 9/083** (2006.01); **G03G 9/087** (2006.01); **G03G 9/09** (2006.01)

CPC (source: EP KR)

**G03G 9/083** (2013.01 - EP); **G03G 9/0833** (2013.01 - EP KR); **G03G 9/0836** (2013.01 - EP); **G03G 9/0838** (2013.01 - KR); **G03G 9/0839** (2013.01 - EP); **G03G 9/08773** (2013.01 - EP); **G03G 9/0902** (2013.01 - EP); **G03G 9/0904** (2013.01 - EP KR); **G03G 9/1138** (2013.01 - KR)

Citation (search report)

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- [A] EP 0373426 A2 19900620 - BAYER AG [DE]
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DOCDB simple family (application)

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