

Title (en)

Carrier, toner and electrophotographic photoreceptor comprising a carbosiloxane dendrimer-functional vinyl type polymer

Title (de)

Trägerteilchen, Toner und elektrophotographischer Photorezeptor, die ein Carbosiloxan-Dendrimer funktionelles Vinylpolymer enthalten

Title (fr)

Particules de support pour toner, toner et photorécepteur électrophotographique, contenant un polymère vinylique à fonction dendrimère à base de carbosiloxane

Publication

**EP 1011033 A3 20000816 (EN)**

Application

**EP 99123672 A 19991129**

Priority

- JP 35554298 A 19981215
- JP 35554498 A 19981215
- JP 36322098 A 19981221

Abstract (en)

[origin: EP1011033A2] A carrier for developing electrostatic latent images has an excellent charging stability, resistance to spenting, and durability and can provide high resolution images over long periods of operation. The carrier achieves these advantageous effects because it contains a pendant carbosiloxane dendrimer-functional vinyl-type polymer. A toner for developing electrostatic images also contains the pendant carbosiloxane dendrimer-functional vinyl-type polymer. The toner has an excellent fluidity, releasability, fixing behavior, resistance to offset, and flexibility and can provide high resolution images. The toner and carrier can be used in various imaging technologies, e.g., electrophotographic technologies, electrostatic recording technologies, and electrostatic printing technologies. An electrophotographic photoreceptor contains, in at least its surface layer, a binder resin and the pendant carbosiloxane dendrimer-functional vinyl-type polymer.

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**G03G 9/113**

IPC 8 full level

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CPC (source: EP)

**G03G 9/08773** (2013.01); **G03G 9/1136** (2013.01)

Citation (search report)

- [X] US 5652079 A 19970729 - MOCHIZUKI SATOSHI [JP], et al
- [X] US 5731120 A 19980324 - TANIGAMI YUKIO [JP], et al
- [X] US 5368969 A 19941129 - YOSHIKAWA YUJI [JP], et al
- [A] EP 0843226 A1 19980520 - CANON KK [JP]
- [EL] EP 0963751 A2 19991215 - DOW CORNING TORAY SILICONE [JP]

Cited by

CN115625897A; CN100363251C; US10295935B2

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