

DEFENSIVE PUBLICATION

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TONER COMPOSITION FOR DEVELOPING ELECTROSTATIC IMAGES

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No Drawing. 11 Pages Specification

Toner particles for use in developing electrostatic charge patterns are comprised of about 1 to 20% by weight of a colorant and from about 99 to 80% by weight of a thermoplastic binder component containing a polyamide resin having a sharp melting point and a modifying resin which can be a rosin, a rosin ester, a halogenated polyphenyl resin, a coumarone-indene resin and mixtures. The polyamide comprises about 30 to about 50% by weight of the binder component and the remainder is comprised of one or more modifying resins. The toner particles have a sharp softening point within the range of about 70 to 125° C. a melt viscosity between about 60 and 600 poise and an average particle size of about ½ to 30 microns. Developer compositions are formed by admixing about 1 to 10% by weight of toner particles with about 99 to 90% by weight of carrier particles. Suitable carriers include magnetic materials such as iron particles as well as non-magnetic materials such as glass beads.