

Title (en)
ELECTROSTATIC IMAGE-DEVELOPING TONER

Title (de)
TONER ZUR ENTWICKLUNG ELEKTROSTATISCHER BILDER

Title (fr)
TONER DE DÉVELOPPEMENT D'IMAGE ÉLECTROSTATIQUE

Publication
EP 2490074 A2 20120822 (EN)

Application
EP 10808329 A 20100810

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Abstract (en)
The present invention relates to an electrostatic image-developing toner which contains binding resin, a coloring agent, and a releasing agent, as well as to a toner composition and to a method for producing the toner composition. The electrostatic image-developing toner is produced by: (1) a suspension polymerization process (S1) comprising: 1-1) a step of preparing an aqueous dispersion medium; 1-2) a step of dispersing and dissolving a polymerizable monomer mixture; 1-3) a droplet-preparing step of micronizing the liquid prepared in step 1-2) into the liquid prepared in the step 1-1) with high shearing force; and 1-4) a step of radically polymerizing the microparticle liquid droplet prepared in step 1-3); (2) a seeded polymerization process (S2) comprising: 2-1) a step of dissolving and dispersing the releasing agent; and 2-2) a step of the seeded polymerization of the liquid prepared in step 2-1); (3) a process in which particles produced in the suspension polymerization process (S1) and in the seeded polymerization process (S2) agglomerate; (4) a process of fusing the particles agglomerated in process (3) by means of heat; (5) a process of cleaning and drying the toner produced in the process (4); and (6) a process of adding an agent for providing the toner produced in the process (5) with electrostatic properties and flowability.

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