

Title (en)

PROCESS FOR THE PRODUCTION OF A SPHERICAL-PARTICLE SHAPE OF TONERS FOR ELECTROPHOTOGRAPHY

Publication

**EP 0197264 B1 19881228 (DE)**

Application

**EP 86101877 A 19860214**

Priority

DE 3510610 A 19850323

Abstract (en)

[origin: US4762765A] The invention relates to a process for producing a spherical grain shape in fine grain toners. The toners are of the type used in electrophotography for developing latent charge images. The treatment of the toner takes place in a material bed which is fluidized by gas streams which are directed against one another. In this manner the grains are subjected to a multitude of reciprocal collisions and friction stress. The intensity of the collisions and frictional stress are adjusted through selection of the operating pressure, velocity, direction and temperature of the gas streams. Thus the grains undergo permanent deformation. A classifier to separate out the super-fine portion resulting from abrasion.

IPC 1-7

**G03G 9/08**; **B01J 2/16**; **B02C 19/06**; **B07B 7/08**

IPC 8 full level

**B01J 2/16** (2006.01); **B02C 19/06** (2006.01); **B07B 7/08** (2006.01); **G03G 9/08** (2006.01); **G03G 9/087** (2006.01)

CPC (source: EP US)

**B02C 19/068** (2013.01 - EP US); **G03G 9/0808** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH FR GB LI NL SE

DOCDB simple family (publication)

**EP 0197264 A1 19861015**; **EP 0197264 B1 19881228**; AT E39580 T1 19890115; DE 3510610 A1 19861002; DE 3510610 C2 19870219; JP H0614193 B2 19940223; JP S61262747 A 19861120; US 4762765 A 19880809

DOCDB simple family (application)

**EP 86101877 A 19860214**; AT 86101877 T 19860214; DE 3510610 A 19850323; JP 6429086 A 19860324; US 84344786 A 19860324