

Title (en)

CONTINUOUS METHOD FOR THE PRODUCTION OF A PIGMENT MASTERBATCH

Title (de)

KONTINUIERLICHES VERFAHREN ZUR HERSTELLUNG EINES PIGMENT-MASTERBATCHES

Title (fr)

PROCEDE CONTINU DE PRODUCTION D'UN MELANGE MAITRE A BASE DE PIGMENT

Publication

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Application

EP 04741294 A 20040728

Priority

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- DE 10335863 A 20030806

Abstract (en)

[origin: WO2005017003A1] The invention relates to a method for producing a pigment masterbatch by means of extrusion. Said method is characterized in that a) a thermoplastic polymer is continuously metered into a twin-screw extruder in a granular or powdery form; b) the metered polymer is melted in the extruder; c) a pumpable pigment press cake containing pigment, water, and/or organic solvent is continuously metered into the melted polymer through an inlet port of the extruder at an increased pressure, the pressure level being such that the boiling temperature of the water and/or the organic solvent is higher than the temperature inside the extruder in the area of said inlet port; d) an optional flow improver is added; e) the pigment is dispersed into the melted polymer from the press cake by applying shearing forces; f) the water and/or the organic solvent is/are eliminated through an outlet port of the extruder at an increased pressure, the pressure level being such that the boiling temperature of the water and/or the organic solvent is higher than the temperature inside the extruder in the area of said outlet port; g) the pigmented polymer melt is discharged from the extruder, chilled, and granulated.

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IPC 8 full level

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