

Title (en)

BETA COPPER PHTHALOCYANINE COMPOSITION AND CONDITIONING PROCESS LEADING THERETO

Title (de)

BETA-KUPFER-PHTHALOCYANIN-ZUSAMMENSETZUNG UND DAZU FÜHRENDES KONDITIONIERUNGSVERFAHREN

Title (fr)

COMPOSITION DE PHTALOCYANINE DE CUIVRE DU TYPE BETA ET PROCEDE DE CONDITIONNEMENT DE CETTE COMPOSITION

Publication

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Application

EP 05707798 A 20050119

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- EP 05707798 A 20050119

Abstract (en)

[origin: WO2005075577A1] The invention relates to a process for preparing a phthalocyanine pigment, comprising heating to a temperature of from 50 to 200°C a slurry comprising: a phthalocyanine consisting of primary particles having an average particle size of maximally 0.5 µm, preferably an average particle size of from 0.01 to 0.3 µm; from 4 to 500% by weight, based on the weight of the phthalocyanine, of a neutral organic conditioning liquid capable of forming with water an azeotropic mixture which has a lower boiling point than water and comprises from 4 to 96% by weight of water in the gas phase at standard pressure; from 0.1 to 5% by weight, based on the weight of the phthalocyanine, of one or more compounds selected from the group consisting of non-aromatic hydrocarbons either unsubstituted or substituted by 1 or 2 hydroxy and /or ether groups, which compounds have at least 12 C atoms and a boiling point of from 150 to 350°C, preferably from 200 to 330°C, most preferred from 240 to 310°C; optionally up to 30% by weight, based on the amount of non-aromatic, unsubstituted or substituted hydrocarbons, of one or more aromatic, unsubstituted and/or optionally substituted hydrocarbons having at least 12 C atoms and a boiling point of from 150 to 350°C, preferably from 200 to 330°C, most preferred from 240 to 310°C; from 1 to 50 parts by weight, per part by weight of neutral organic conditioning liquid, of a basic aqueous solution having a pH value of >= 9, preferably having a pH value of from 10 to 13. The resulting compositions, preferably also comprising minor amounts of a resin and/or a phthalocyanine derivative, are also claimed. The compositions lead to an excellent flowability, especially at low shear in oil inks.

IPC 8 full level

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