

Title (en)

Process for preparing a pigmentary agent suited for use in the paper-making industry, said agent improving the printability of paper or board, the agent and its use.

Title (de)

Verfahren zur Herstellung eines für die Papier- und Kartonindustrie geeigneten, die Bedruckbarkeit von Papier und Karton verbessernden Mittels auf Pigmentbasis, das Mittel und seine Verwendung.

Title (fr)

Procédé de fabrication d'un agent à base de pigments apte à l'industrie papetière, qui améliore la possibilité d'imprimer sur du papier ou du carton, l'agent et son utilisation.

Publication

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Application

EP 88101804 A 19880208

Priority

DE 3703957 A 19870210

Abstract (en)

[origin: EP0279313A1] Pigment-based agent (I) for increasing the printability of paper or cardboard is produced by: (a) making an aq. colloidal system (II) from pigment(s) (III) and water-soluble or swellable hydrogel(s) (IV) contg. anionic gps.; (b) coacervation of (II) with a quat. organic ammonium salt (V); and (c) concn. by sedimentation, centrifuging and/or press filtration. The claims also cover (I). Pref. (III) is kaolin. Pref. (IV) is produced from a hydrated cation-exchangeable smectic laminar silicate with an ion exchange capacity of 50-120 milliequiv./100 g, pref. Na bentonite; or a natural or synthetic organic polymer. (V) has 8-22 C alkyl gp(s). and pref. is stearyldimethylbenzylammonium chloride or distearyldimethylammonium chloride. (II) has a total solids content of 2-15, pref. 3-5 wt.%; and the (III):(IV) ratio is such that 5-40, pref. 10-20% of the (III) particles are coated by coacervation. Coacervation is carried out in the presence of a fat- or oil-soluble optical whitener.

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IPC 8 full level

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EP1138512A1; EA019140B1; EP2053163A1; EP0489422A1; EP1138511A3; EP0542159A1; US5266163A; US6440537B1; DE102008025697A1; WO2009052959A1; WO9118148A1; EP0685539B1

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