

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 verbessерnden 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

**EP 0279313 B1 19940126 (DE)**

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.

IPC 1-7

**C09C 3/00; D21H 19/64; D21H 17/70**

IPC 8 full level

**B41M 5/52** (2006.01); **C09C 3/00** (2006.01); **D21H 17/63** (2006.01); **D21H 17/69** (2006.01); **D21H 17/70** (2006.01); **D21H 19/36** (2006.01); **D21H 19/64** (2006.01); **D21H 21/50** (2006.01); **D21H 17/07** (2006.01); **D21H 17/68** (2006.01)

CPC (source: EP US)

**B41M 5/5245** (2013.01 - EP US); **D21H 17/69** (2013.01 - EP US); **D21H 19/36** (2013.01 - EP US); **D21H 17/07** (2013.01 - EP US); **D21H 17/68** (2013.01 - EP US); **Y10T 428/2991** (2015.01 - EP US)

Cited by

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

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0279313 A1 19880824; EP 0279313 B1 19940126**; AT E100849 T1 19940215; AU 1144988 A 19880811; AU 606918 B2 19910221; BR 8800529 A 19880927; CA 1335947 C 19950620; DE 3703957 A1 19880818; DE 3887358 D1 19940310; DK 169554 B1 19941128; DK 65888 A 19880811; DK 65888 D0 19880209; FI 880553 A0 19880208; FI 880553 A 19880811; FI 92616 B 19940831; FI 92616 C 19941212; JP S6485394 A 19890330; NO 176882 B 19950306; NO 176882 C 19950614; NO 880554 D0 19880209; NO 880554 L 19880811; US 4963192 A 19901016

DOCDB simple family (application)

**EP 88101804 A 19880208**; AT 88101804 T 19880208; AU 1144988 A 19880209; BR 8800529 A 19880209; CA 558465 A 19880209; DE 3703957 A 19870210; DE 3887358 T 19880208; DK 65888 A 19880209; FI 880553 A 19880208; JP 2673688 A 19880209; NO 880554 A 19880209; US 14898988 A 19880127