

Title (en)

Method of preparing a print-support for contactless ink-jet printing process, paper prepared by this process and use thereof

Title (de)

Verfahren zum Herstellen eines Druckträgers für das berührungslose Inkjet-Druckverfahren, nach diesem Verfahren hergestelltes Papier und dessen Verwendung

Title (fr)

Méthode pour la fabrication d'un support pour l'impression utilisé pour l'impression par jet d'encre sans contact, papier fabriqué par ce procédé et son utilisation

Publication

EP 0790135 A3 19981209 (DE)

Application

EP 97100498 A 19970115

Priority

- DE 29601859 U 19960116
- DE 19605970 A 19960217

Abstract (en)

[origin: EP0790135A2] Production of a printing carrier comprises: (i) forming a base paper from a paper composition containing paper fibre material and mineral filler; and (ii) applying a dye on the paper as covering dye, the dye containing a pigment in aqueous suspension and binder. The dye can be cationically adjusted. Also claimed is an ink jet pressure paper. Preferably, the dye has a zeta potential of +5 to +70 mV. The dye is produced using a cationic pigment slurry, whose pigment has been transferred into a cationic ionogeneity by grinding and/or dispersing. 50-100 % of a natural ground CaCO₃ with a degree of fineness of at least 60 % less than 2 mm are used. Up to 50 % pigments in the form of kaolin, talc, Al(OH)₃, mica and/or gypsum are used. Cationically modified starch, cationically adjusted plastic binder and/or commercial, non-ionogenic polyvinyl alcohol is used as binder, in an amount of up to 11 %, preferably up to 9 %.

IPC 1-7

B41M 5/00

IPC 8 full level

B41M 5/50 (2006.01); **B41M 5/52** (2006.01)

CPC (source: EP)

B41M 5/508 (2013.01); **B41M 5/52** (2013.01); **B41M 5/5218** (2013.01); **B41M 5/5227** (2013.01); **B41M 5/5236** (2013.01); **B41M 5/5254** (2013.01)

Citation (search report)

- [XY] DE 19534327 A1 19960222 - MD PAPIER GMBH [DE]
- [X] WO 9108341 A1 19910613 - ECC INT LTD [GB]
- [X] EP 0391308 A1 19901010 - CANON KK [JP]
- [XP] EP 0709223 A1 19960501 - CANON KK [JP]
- [Y] EP 0344984 A2 19891206 - PFIZER [US]
- [A] EP 0448332 A1 19910925 - MEAD CORP [US]
- [AD] EP 0281134 A2 19880907 - MD PAPIER GMBH [DE]

Cited by

US2013310504A1; US9309424B2; US6893536B2; US10301774B2; WO0155506A1; WO2004091926A1; US10794006B2; US11572659B2; US10253457B2; US11136721B2; US11155697B2; US11655594B2; US10053817B2; US10100467B2; US10294371B2; US10633796B2; US10975242B2; US10577469B2; US11384210B2; US11932740B2; US10100464B2; US11162219B2; US11377791B2; US11732411B2; US11970817B2; US10214859B2; US10801162B2; US11274399B2; US11732421B2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IT LI NL PT SE

DOCDB simple family (publication)

EP 0790135 A2 19970820; EP 0790135 A3 19981209

DOCDB simple family (application)

EP 97100498 A 19970115