

Title (en)
Ink-jet recording medium

Title (de)
Tintenstrahlaufzeichnungsmaterial

Title (fr)
Matériau pour l'enregistrement par jet d'encre

Publication
EP 1738918 A1 20070103 (DE)

Application
EP 05014012 A 20050629

Priority
EP 05014012 A 20050629

Abstract (en)
The material has a substrate made of paper and covered with coating material containing binders and inorganic pigment. The substrate has a density of 0.6 to 1.0 gram per cubic centimeter, and CObb 60 value of 19 to 25 grams per square meter. The coating covers the recording layer laid directly on the substrate. The recording layer contains pigment made of colloidal synthetic boehmite with middle crystal size of 10 to 50 nanometers. The recording layer also contains binders which has 80 to 100 Gew-% silanated polyvinyl alcohol. The recording layer contains eucalyptus paper fiber.

IPC 8 full level
B41M 5/00 (2006.01)

CPC (source: EP US)
B41M 5/508 (2013.01 - EP US); **B41M 5/52** (2013.01 - EP US); **B41M 5/5218** (2013.01 - EP US); **B41M 5/5254** (2013.01 - EP US);
B41M 5/529 (2013.01 - EP US)

Citation (applicant)
• EP 0806299 A2 19971112 - SCHOELLER FELIX JUN FOTO [DE]
• DE 19952356 A1 20000504 - MITSUBISHI PAPER MILLS LTD [JP]
• EP 0732219 A2 19960918 - CANON KK [JP]
• EP 0803375 A1 19971029 - ASAHI GLASS CO LTD [JP]
• EP 0810101 A1 19971203 - CANON KK [JP]
• EP 0875394 A1 19981104 - ILFORD GMBH [CH]
• EP 1512544 A1 20050309 - ILFORD IMAGING CH GMBH [CH]

Citation (search report)
• [A] EP 0701904 A1 19960320 - CANON KK [JP]
• [A] DE 19601267 A1 19970717 - BAYER AG [DE]
• [A] US 2004219310 A1 20041104 - OGATA YASUHIRO [JP], et al
• [A] US 2002045035 A1 20020418 - NOJIMA TAKAHIKO [JP], et al
• [AD] DE 19952356 A1 20000504 - MITSUBISHI PAPER MILLS LTD [JP]
• [A] US 6524696 B1 20030225 - GUMBIOWSKI RAINER [DE], et al
• [A] US 2004209010 A1 20041021 - CUCH SIMON R [US]
• [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10 31 August 1999 (1999-08-31)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
EP 1738918 A1 20070103; EP 1738918 B1 20080423; AT E393030 T1 20080515; DE 502005003846 D1 20080605;
US 2007002120 A1 20070104; US 8377521 B2 20130219

DOCDB simple family (application)
EP 05014012 A 20050629; AT 05014012 T 20050629; DE 502005003846 T 20050629; US 47816706 A 20060629