

Title (en)
SHEENY INK JET PRINTING MATERIAL

Title (de)
SEIDENGLÄNZENDES TINTENSTRAHLAUFEICHNUNGSMATERIAL

Title (fr)
MATÉRIAU POUR IMPRESSION À JET D'ENCRE PRÉSENTANT UN ÉCLAT SOYEUX

Publication
EP 1370421 B1 20060125 (DE)

Application
EP 02727392 A 20020309

Priority
• DE 10112327 A 20010313
• EP 0202633 W 20020309

Abstract (en)
[origin: WO02072359A1] The invention relates to a method for producing an ink jet printing material involving: a) the application of an aqueous coating slip containing a pigment and a binding agent to at least one surface of a substrate in order to form at least one ink jet receiving layer; b) the application of an aqueous coating slip containing cationic inorganic particles, a binding agent and a release agent onto the ink jet receiving layer(s) in order to form a surface layer; c) the partial drying of the printing material to a total wetness of 14 to less than 20 wt. % water with regard to the total weight of the printing material, and d); bringing the partially dried printing material into contact with a heated metal cylinder without rewetting the line. This results in obtaining an ink jet printing material containing a substrate, an ink jet receiving layer, which is located on at least one side of the substrate and which contains a pigment and a binding agent, and a surface layer situated thereon, whereby the surface layer contains cationic, inorganic particles, a binding agent, and a release agent, and the surface layer has a degree of gloss ranging from 5 to 35 when measured in accordance with DIN 54502 R'(75 DEG) (angle of measurement 75 DEG) and a surface smoothness of less than 2.5 μ m according to the Parker-Print-Surf (PPS) and in accordance with DIN-ISO 8791-4.

IPC 8 full level
B41J 2/01 (2006.01); **B41M 5/00** (2006.01); **B41M 5/50** (2006.01); **B41M 5/52** (2006.01)

CPC (source: EP US)
B41M 5/506 (2013.01 - EP US); **B41M 5/52** (2013.01 - EP US); **B41M 5/508** (2013.01 - EP US); **B41M 5/5218** (2013.01 - EP US); **B41M 5/5227** (2013.01 - EP US); **Y10T 428/2949** (2015.01 - EP US); **Y10T 428/31775** (2015.04 - EP US); **Y10T 428/31855** (2015.04 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02072359 A1 20020919; AT E316472 T1 20060215; CA 2440326 A1 20020919; CN 1228505 C 20051123; CN 1496310 A 20040512; DE 10112327 A1 20021002; DE 50205703 D1 20060413; EP 1370421 A1 20031217; EP 1370421 B1 20060125; HK 1065983 A1 20050311; JP 2004522630 A 20040729; US 2004146726 A1 20040729

DOCDB simple family (application)
EP 0202633 W 20020309; AT 02727392 T 20020309; CA 2440326 A 20020309; CN 02806482 A 20020309; DE 10112327 A 20010313; DE 50205703 T 20020309; EP 02727392 A 20020309; HK 04108889 A 20041111; JP 2002571303 A 20020309; US 47168904 A 20040325