

Title (en)

Process and installation for making a printing surface, specially for ink-jet printing, paper sheet and article

Title (de)

Verfahren und Vorrichtung zum Herstellen einer insbesondere mittels eines Tintenstrahldruckverfahrens bedruckbaren Oberfläche, Papierbahn sowie Gegenstand

Title (fr)

Procédé et dispositif de fabrication d'une surface d'impression, en particulier pour jet d'encre, feuille de papier et article.

Publication

**EP 1749676 B1 20081015 (DE)**

Application

**EP 06015619 A 20060726**

Priority

DE 102005036541 A 20050803

Abstract (en)

[origin: EP1749676A1] Production of a printable surface involves impregnating a paper sheet (10), which absorbs liquid synthetic resin over its whole thickness, with the resin (14) from one side (12) of the sheet, so that the resin does not penetrate through the whole of the sheet and the other side (16) remains free of resin. Independent claims are included for: (1) a sheet of paper (10) (specifically with a stretchable structure) having a printable surface (16), obtained by partial impregnation with resin as above; (2) a printable article, at least partially coated with a paper sheet as above; and (3) apparatus for carrying out the process, where the opposite side of the sheet is impregnated with a barrier liquid, consisting of two spaced, opposite liquid application devices between which the sheet passes, liquid synthetic resin being applied to one side of the sheet and barrier fluid to the other.

IPC 8 full level

**B41M 5/00** (2006.01); **D21H 19/76** (2006.01); **D21H 19/84** (2006.01); **D21H 23/70** (2006.01)

CPC (source: EP)

**B41M 5/502** (2013.01); **D21H 19/76** (2013.01); **B41M 5/504** (2013.01); **B41M 5/508** (2013.01); **D21H 23/70** (2013.01)

Cited by

WO2017111689A1; DE102007013135A1; DE102007013132A1; DE102007013133A1; DE102007019851A1; EP2565035A1; WO2008131811A1; WO2010078904A2; EP2206605A2; EP2815889A1; CN101918210A; CN108495753A; DE102008030955B3; EP2546073A3; BE1020072A5; WO2010000360A1; RU2618070C2; CN110997342A; WO2008110275A1; WO2009080772A1; WO2009080813A1; EP4032923A1; WO2022157613A1; US11633884B2; US10124603B2; US10994555B2; US11613133B2; US8366854B2; US10364578B2; US11401718B2; WO2008110276A1; DE102007013132B4; US9174423B2; EP4215367A1; US11794460B2; DE102008008292A1; WO2009097986A1; EP3978261A1; WO2022069982A1; EP3199360A1; WO2017130117A1; US10532597B2; EP3871894A1; US11117410B2; US11090972B2; EP3901369A1; WO2021214559A1; EP4129680A1; EP3415337A1; WO2018229649A1; EP3854600A1; US11148451B2; EP2942201B1; US9321278B2; US9566823B2; US10214028B2; US10336032B2; US10549550B2; US10807385B2; US10814648B1; US10913176B2; US11446938B2; WO2023170528A1; EP4261044A1; EP2942201A2; US10471769B2; US10906349B2; EP3932686A1; WO2022003494A1; US11465439B2; US11878548B2; EP3656571A1; WO2020104912A1; EP3705304A1; WO2020178666A1; US11235565B2; US11413898B2; EP4344895A2; EP2727740B1; EP2132041B2; EP2139679B2

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1749676 A1 20070207**; **EP 1749676 B1 20081015**; AT E411187 T1 20081015; DE 102005036541 A1 20070208; DE 102005036541 B4 20091029; DE 102005036541 B9 20100211; DE 502006001804 D1 20081127

DOCDB simple family (application)

**EP 06015619 A 20060726**; AT 06015619 T 20060726; DE 102005036541 A 20050803; DE 502006001804 T 20060726