

Title (en)

METHOD OF MAKING A LITHOGRAPHIC PRINTING PLATE PRECURSOR

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES LITHOGRAPHISCHEN DRUCKPLATTENVORLÄUFERS

Title (fr)

PROCEDE DE FABRICATION D'UN PRECURSEUR DE PLAQUE D'IMPRESSION LITHOGRAPHIQUE

Publication

EP 1551642 B1 20071010 (EN)

Application

EP 03753595 A 20030912

Priority

- EP 03753595 A 20030912
- EP 0350623 W 20030912
- EP 02102415 A 20021004
- US 42029602 P 20021022

Abstract (en)

[origin: WO2004030925A1] A method of making a heat-sensitive lithographic printing plate precursor is disclosed which comprises the steps of (i) providing a web of a lithographic support having a hydrophilic surface; (ii) applying on the hydrophilic surface of the web a coating comprising a phenolic resin; (iii) drying the coating; (iv) a heating step wherein the web temperature is maintained above the glass transition temperature of the phenolic resin T_g during a period of between 0.1 and 60 seconds; (v) a cooling step wherein the web temperature is reduced at an average cooling rate which is higher than if the web would be kept under ambient conditions but not higher than 30°C/s; (vi) winding the precursor on a core or cutting the precursor into sheets. The heating and the cooling step provide a significant improvement of the aging behavior of the precursor. A stable sensitivity is obtained shortly after coating.

IPC 8 full level

B41N 3/00 (2006.01)

CPC (source: EP)

B41N 3/00 (2013.01); **B41N 3/036** (2013.01)

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

WO 2004030925 A1 20040415; AU 2003271763 A1 20040423; CN 100439120 C 20081203; CN 1688451 A 20051026; DE 60316826 D1 20071122; DE 60316826 T2 20080717; EP 1551642 A1 20050713; EP 1551642 B1 20071010; JP 2006501507 A 20060112; JP 4338641 B2 20091007

DOCDB simple family (application)

EP 0350623 W 20030912; AU 2003271763 A 20030912; CN 03823712 A 20030912; DE 60316826 T 20030912; EP 03753595 A 20030912; JP 2004540808 A 20030912