

Title (en)

Processless thermal printing plate with well defined nanostructure

Title (de)

Verarbeitungsfreie thermische Flachdruckplatte mit definierter Nanostruktur

Title (fr)

Plaque lithographique thermique sans traitement avec nanostructure bien déterminée

Publication

EP 0976549 A1 20000202 (EN)

Application

EP 98202576 A 19980731

Priority

EP 98202576 A 19980731

Abstract (en)

According to the present invention there is provided a heat-sensitive material for making lithographic printing plates comprising on a lithographic support an image-forming layer comprising a hydrophilic binder, a cross-linking agent for said hydrophilic binder, metal oxide particles with a mean diameter of at least 100 nm and dispersed hydrophobic thermoplastic polymer particles, characterized in that said image-forming layer has a ratio of specific surface (in m² per g) over mean roughness (in μm) of more than 0.65 and that the mean pore width is less than 15 nm.

IPC 1-7

B41C 1/10; **B41M 5/36**

IPC 8 full level

B41C 1/10 (2006.01); **B41M 5/36** (2006.01); **B41N 1/14** (2006.01); **G03F 7/00** (2006.01); **G03F 7/004** (2006.01)

CPC (source: EP)

B41C 1/1025 (2013.01); **B41M 5/368** (2013.01); **B41C 2210/04** (2013.01); **B41C 2210/08** (2013.01); **B41C 2210/22** (2013.01); **B41C 2210/24** (2013.01)

Citation (search report)

- [DA] EP 0770494 A2 19970502 - AGFA GEVAERT NV [BE]
- [DA] "A LITHOGRAPHIC PRINTING PLATE", RESEARCH DISCLOSURE, no. 333, 1 January 1992 (1992-01-01), pages 2, XP000281114

Cited by

US6852469B2; US6815137B2; US6551757B1; US6686125B2

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0976549 A1 20000202; **EP 0976549 B1 20031001**; DE 69818659 D1 20031106; DE 69818659 T2 20040812; JP 2000079771 A 20000321

DOCDB simple family (application)

EP 98202576 A 19980731; DE 69818659 T 19980731; JP 21523999 A 19990729