

Title (en)

A concentrated dampening solution with an improved anti-staining activity for printing with a lithographic printing plate obtained according to the silver salt diffusion transfer process

Title (de)

Feuchtwasserkonzentrat mit verbesserter Antifleckenaktivität für nach dem Verfahren der Silbersalz-Diffusions-Übertragung hergestellte lithographische Druckplatten

Title (fr)

Solution de mouillage concentrée avec activité de voilage réduite pour plaques d'impression lithographiques obtenues suivant le procédé de diffusion transfert au sel d'argent

Publication

**EP 0754565 A1 19970122 (EN)**

Application

**EP 95201974 A 19950718**

Priority

EP 95201974 A 19950718

Abstract (en)

The present invention provides a concentrated dampening solution for use in a lithographic printing process having a pH between 3 and 6 and comprising a water-soluble organic solvent, a phosphate salt and a transparent pigment, characterized in that said transparent pigment is a modified silica in which the silica particles have a number average size of 0.003 to 0.100  $\mu\text{m}$  and in which the silica particles are coated with chemically combined atoms of an amphoteric metal which forms an insoluble silicate at a pH between 5 and 12, said metal atoms being chemically bound through oxygen atoms to silicon atoms in the surface of said particles, and the amount of said metal being such that : Gram atoms M/ Gram atoms Si = A/1250 to A/250000 where M is the metal and A is the surface area of the particles of the silica sol expressed in  $\text{m}^2/\text{g}$ .

IPC 1-7

**B41N 3/08**

IPC 8 full level

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CPC (source: EP)

**B41N 3/08** (2013.01)

Citation (search report)

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- [A] DE 2248606 A1 19730419 - MITSUBISHI PAPER MILLS LTD
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DE FR GB

DOCDB simple family (publication)

**EP 0754565 A1 19970122; EP 0754565 B1 19990616**; DE 69510341 D1 19990722; DE 69510341 T2 20000224; JP H0930143 A 19970204

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