

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

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Application

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Priority

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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 μm 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 m^2/g .

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B41N 3/08

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CPC (source: EP)

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Citation (search report)

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

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