

Title (en)

Wet-offset printing form with photo-thermally convertible material, process and apparatus for creating and/or erasing the image of the wet-offset printing form

Title (de)

Nassoffset-Druckform mit fotothermisch veränderbarem Material, Verfahren und Vorrichtung zur Erzeugung und/oder Löschung eines Druckbildes einer Nassoffset-Druckform

Title (fr)

Plaque d'impression offset comprenant un matériau photo-thermo convertible, procédé et dispositif pour créer et/ou effacer l'image de la plaque d'impression offset

Publication

EP 1245385 A3 20021120 (DE)

Application

EP 02405245 A 20020327

Priority

DE 10115435 A 20010329

Abstract (en)

[origin: EP1245385A2] Wet offset printing plate comprises a top layer of a material that can be photocatalytically converted to a hydrophilic state by irradiation with light and converted to a hydrophobic state by heating, where the layer includes absorption centers for radiation, especially near infrared (NIR) laser radiation, such that the layer can be heated imagewise. Independent claims are also included for the following: (1) a process for writing such a plate, comprising imagewise heating of the plate; (2) a process for erasing such a plate, comprising irradiating the plate with UV light while supplying water; and (3) apparatus for repeatedly writing such a plate, comprising a writing device for imagewise heating, an erasing device comprising one or more daylight and/or UV light sources, and a humidifying chamber for generating and maintaining a predetermined air humidity on the plate.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

B41C 1/1041 (2013.01 - EP US); **B41N 3/006** (2013.01 - EP US); **B41P 2227/70** (2013.01 - EP US)

Citation (search report)

- [X] EP 0875395 A1 19981104 - EASTMAN KODAK CO [US]
- [DX] EP 1020304 A2 20000719 - FUJI PHOTO FILM CO LTD [JP]
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