

Title (en)

Printing apparatus for making a lithographic printing plate involving on press development

Title (de)

Vorrichtung zur Herstellung einer lithographischen Druckplatte mit auf der Druckpresse stattfindenden Entwicklung

Title (fr)

Appareil pour la fabrication d'une plaque lithographique avec développement sur presse

Publication

**EP 0770496 B1 20020313 (EN)**

Application

**EP 96202761 A 19961003**

Priority

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Abstract (en)

[origin: EP0770496A1] The present invention discloses a method for preparing lithographic printing plates by the following steps: (i) mounting to the print cylinder of a printing apparatus comprising at least one print station including: a print cylinder; means for mounting to the print cylinder an imaging element; at least one laser or L.E.D device; means for guiding output of said laser or L.E.D. device to focus on the imaging elements surface; means for moving the guiding means and support means relative to one another to effect a scan of the imaging elements surface by the output of said laser or L.E.D. device an imaging element comprising (1) on a hydrophilic surface of a lithographic base an image forming layer comprising hydrophobic thermoplastic polymer particles dispersed in a hydrophilic binder and (2) a compound capable of converting light to heat, said compound being comprised in said image forming layer or a layer adjacent thereto; (ii) information-wise exposing by means of said laser or L.E.D. device said imaging element; (iii) applying by means of a means for supplying a dampening liquid to said print cylinder a dampening liquid to said print cylinder; (iv) after, before or simultaneously with step (iii) applying by means of a means for supplying ink to said print cylinder ink to said print cylinder; (v) transferring a receiving element to said print station by means of a means for transferring a receiving element to said print station; (vi) transferring ink from said print cylinder to said receiving element by means for transferring ink from said print cylinder to said receiving element.

IPC 1-7

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

IPC 8 full level

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