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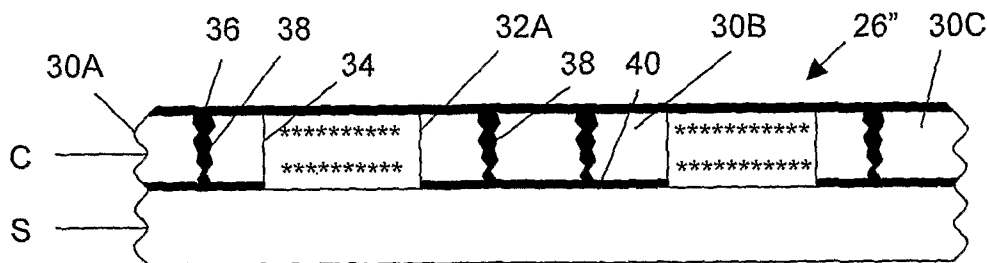
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(54) Title: IMAGEABLE PRINTING PLATE FOR ON-PRESS DEVELOPMENT



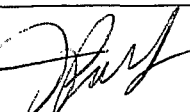
(57) Abstract: A novel coating for lithographic printing plates can be imagewise exposed to radiation and then directly processed with only water to remove the non-exposed regions of the coating. The coating comprises a polymer, a monomer and/or oligomer, polymerization or cross link initiator, stabilizer, and dye or pigment, such that after imaging, the non-imaged resin areas are removable from the planar surface by penetration of water through the non-imaged coating without dissolution of the resin components of the coating, to form a lithographic printing plate with clearly defined image and non-image areas. The stabilizer is a solvent soluble, partially water soluble, non-polymerizable organic component that enables the coating to be removable by water in the non-cross linked areas.



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**INTERNATIONAL SEARCH REPORT**

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PCT/US 06/28881

| <p><b>A. CLASSIFICATION OF SUBJECT MATTER</b><br/>                 IPC(8): G03F 7/20; G03F 7/004; G03F 7/038 (2007.01)<br/>                 USPC: 430/300; 430/302; 430/270.1<br/>                 According to International Patent Classification (IPC) or to both national classification and IPC</p>   |  |   |  |   |   |  |  |  |  |   |  |  |
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| <p><b>B. FIELDS SEARCHED</b></p> <p>Minimum documentation searched (classification system followed by classification symbols)<br/>                 USPC: 430/300,302,270.1,155,162,157,170,177,176.</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br/>                 USPTO WEST (PGPUB, EPAB, JPAB, USPT), Thomson DialogPRO, Google. Search terms used: IR or infra-red, hydrophilic, solvent or planar, resin or monomer or oligomer, polymerization or initiator or organic or stabilizer, dyes or pigments, imag\$4or non-imag\$4, coat\$5, penetration, lithographic and print</p>   |  |   |  |   |   |  |  |  |  |   |  |  |
| <p><b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b></p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 6,884,561 B2 (Fromson et al.) 26 April 2005 (26.04.2005), col 1, ln 14-16; abstract; col 1 ln 58 to col 2 ln 32; col 2, ln 10-16; col 2, ln 16-22; col 2, ln 23-26; col 2, ln 56-58; col 1, ln 59 to col 2 ln 01; col 2, ln 10-14; col 2, ln 35 to col 3 ln 07; col 2, ln 53-55; col 3, ln 05-09; col 1, ln 58-61; col 3, ln 15-16.</td> <td>1-27</td> </tr> <tr> <td>Y</td> <td>US 4,645,730 A (Fromson et al.) 24 February 1987 (24.02.1987), abstract; col 1, ln 49-53.</td> <td>1-27</td> </tr> </tbody> </table>   |  |   | Category*  | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.   | Y  | US 6,884,561 B2 (Fromson et al.) 26 April 2005 (26.04.2005), col 1, ln 14-16; abstract; col 1 ln 58 to col 2 ln 32; col 2, ln 10-16; col 2, ln 16-22; col 2, ln 23-26; col 2, ln 56-58; col 1, ln 59 to col 2 ln 01; col 2, ln 10-14; col 2, ln 35 to col 3 ln 07; col 2, ln 53-55; col 3, ln 05-09; col 1, ln 58-61; col 3, ln 15-16. | 1-27   | Y  | US 4,645,730 A (Fromson et al.) 24 February 1987 (24.02.1987), abstract; col 1, ln 49-53. | 1-27   |  |
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| <p>Date of the actual completion of the international search<br/>30 January 2007 (30.01.2007)</p>  |  | <p>Date of mailing of the international search report<br/><b>30 MAR 2007</b></p>  |  |   |   |  |  |  |  |   |  |  |
| <p>Name and mailing address of the ISA/US<br/>                 Mail Stop PCT, Attn: ISA/US, Commissioner for Patents<br/>                 P.O. Box 1450, Alexandria, Virginia 22313-1450<br/>                 Facsimile No. 571-273-3201</p>   |  | <p>Authorized officer:<br/>                 Lee W. Young <br/>                 PCT Helpdesk: 571-272-4300<br/>                 PCT OSP: 571-272-7774</p> |  |   |   |  |  |  |  |   |  |  |