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(54) **Immobilization of cationic and anionic dyes and pigment dispersions with insoluble metal salts**

(57) A specially prepared ink-jet paper comprising fibers containing pits filled with a slightly water-soluble metal salt by precipitation is disclosed for use with thermal ink-jet color printers, such as Hewlett-Packard Company's DeskJet® printers. An ink-jet ink containing a colorant, such as a dye or pigment, and a dispersant for dispersing the colorant when necessary, is printed onto the specially prepared paper. The dispersing ability of the dispersant is capable of being vitiated by particles

of the metal salt precipitated in the pits contained in the ink-jet paper, thereby indirectly causing the colorant to precipitate on the surface of the paper when the ink-jet ink is printed on the ink-jet paper. In the case of dye-based inks the metal salt directly causes the dyes to precipitate. As a consequence, the ink-jet color printer is able to produce high-quality color images in a reliable manner with improved color gamut and water-resistance and reduced bleed between adjacent-printed colors.

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EUROPEAN SEARCH REPORT

Application Number
EP 97 30 6764

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			TECHNICAL FIELDS SEARCHED (Int.Cl.6) D21H D21C B41M
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
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CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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