

Title (en)
THERMAL MARKING PRINTER SYSTEM

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EP 0106663 A3 19851218 (EN)

Application
EP 83306185 A 19831013

Priority
US 43551982 A 19821020

Abstract (en)
[origin: EP0106663A2] A thermal marking printer system includes an image fusing station (34) following the thermal transfer station (16). At the thermal transfer station (16) an ink transfer ribbon (18), which carries a heat sensitive ink layer, is brought into contact with recording sheet (10). The printhead (30) comprises an array of individually addressable resistive elements. Energisation of selected elements causes a desired image to be transferred to the recording sheet. In one embodiment, the fusing step is implemented by reheating the transferred image as it emerges from the thermal transfer station. This reheating step causes the transferred image to penetrate further into the recording sheet providing an improved, matte-type finish and reducing the transferred image gloss thereby lessening subsequent handling problems.

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CPC (source: EP)
B41M 5/38207 (2013.01); **B41M 7/009** (2013.01)

Citation (search report)

- [A] DE 3018342 A1 19801127 - FUJI PHOTO FILM CO LTD
- [A] US 3904875 A 19750909 - REES JAMES D, et al
- [X] IBM TECHNICAL DISCLOSURE BULLETIN, vol. 19, no. 4, September 1976, page 1409, New York, US; W. CROOKS et al.: "Coated paper for thermal transfer printing"
- [X] PATENTS ABSTRACTS OF JAPAN, vol. 1, no. 92, 25th August 1977, page 2373 E 78; & JP - A - 53 33 158 (FUJITSU K.K.) 28-03-1978
- [X] XEROX DISCLOSURE JOURNAL, vol. 2, no. 3, May/June 1977, page 35, Stamford, Connecticut, US; W.L. GOFFE: "Radiant thermal biasing for laser induced thermal marking"
- [XP] PATENTS ABSTRACTS OF JAPAN, vol. 7, no. 173 (M-232)[1318], 30th July 1983; & JP - A - 58 76 276 (CANON K.K.) 09-05-1983
- [XP] PATENTS ABSTRACTS OF JAPAN, vol. 7, no. 237 (M-250)[1382], 21st October 1983; & JP - A - 58 124 674 (FUJI XEROX K.K.) 25-07-1983
- [XP] PATENTS ABSTRACTS OF JAPAN, vol. 7, no. 230 (M-251)[1385], 25th October 1983; & JP - A - 58 128 878 (FUJI XEROX K.K.) 01-08-1983

Cited by
EP0582529A3; US4762431A; EP0251170A3; EP0380920A3; US5158813A; EP0269585A3; US5529408A; EP0257578A3; FR2558111A1; WO9119221A1; WO9005640A1

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