

Title (en)
Ink delivery system for ink-jet printer

Title (de)
Tintenzuführsystem für Tintenstrahldrucker

Title (fr)
Système d'alimentation en encre pour imprimante par jet d'encre

Publication
EP 0903238 A3 20001108 (EN)

Application
EP 98306329 A 19980807

Priority
US 91483297 A 19970818

Abstract (en)
[origin: EP0903238A2] An off-axis printing system (10) with high performance tubing. The printing system includes a media transporting system for transporting a print medium along a medium path to a print area (14), a scanning carriage (16) for holding a printing structure (18) including a printhead, and a scanning apparatus (22, 24) for scanning the carriage along a scanning axis transverse to the media path at the print area. The system further includes a fixed ink supply station (30) including an ink reservoir. A fluid conduit interconnects between the ink reservoir of the fixed ink supply station and the printing structure, the fluid conduit including a length of hollow flexible tubing routed such that a flexible loop is formed therein. The tubing includes a tubing material having an oxygen permeability characteristic of less than 100 cc•mil/(100 in<2>•day•atm), at 23 DEG C, 0% RH. The tubing material has a tensile modulus characteristic value which is less than 300,000 pounds per square inch (psi), and a water vapor transmission rate of less than one g•mil/(100in<2>•day), at 10% RH, 100 DEG F. Particular tubing materials suitable for the purpose include polyvinylidene chloride copolymer, polychlorotrifluoroethylene copolymer, and ethylenechlorotrifluoroethylene. <IMAGE>

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CPC (source: EP)
B41J 2/17509 (2013.01); **B41J 2/17523** (2013.01); **B41J 2/17556** (2013.01)

Citation (search report)
• [A] EP 0666178 A2 19950809 - HEWLETT PACKARD CO [US]
• [A] US 5640184 A 19970617 - MOYNIHAN EDWARD R [US], et al
• [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 327 (M - 0998) 13 July 1990 (1990-07-13)
• [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 291 (C - 1067) 4 June 1993 (1993-06-04)
• [A] PATENT ABSTRACTS OF JAPAN vol. 004, no. 025 (M - 001) 5 March 1980 (1980-03-05)

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WO0068017A1; WO2018200930A1; WO2006076852A1; WO2006081465A1; US7461928B2; WO0068018A1; US6698869B2

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