

Title (en)
Ink jet printing

Title (de)
Tintenstrahldrucker

Title (fr)
Impression à jet d'encre

Publication
EP 0952003 A1 19991027 (EN)

Application
EP 99303072 A 19990421

Priority
US 6662198 A 19980424

Abstract (en)
An ink jet printing system (50) includes an ink jet nozzle array (54) for ejecting ink droplets during an ink jet printing cycle, and a flat medium (10) positioned to receive ink droplets ejected by the nozzle array during an ink jet printing cycle. A motion apparatus (72, 80, 92) provides relative motion between the nozzle array and the medium such that a spiral locus is defined by the nozzle array relative to the media during an ink jet printing cycle. The spiral maximum diameter may be made equal to the diagonal dimension of a rectangular media, thus allowing drops to be deposited very close to the edge of the media, and so reducing or eliminating the area of unprintable margins on both sides and the top and bottom of the media. <IMAGE>

IPC 1-7
B41J 19/16

IPC 8 full level
B41J 2/01 (2006.01); **B41J 19/16** (2006.01)

CPC (source: EP)
B41J 19/16 (2013.01)

Citation (applicant)
US 6662298 B2 20031209 - HELLER ED [US]

Citation (search report)
• [A] GB 1406482 A 19750917 - MARCONI CO LTD
• [A] US 2389408 A 19451120 - BOYD ALBERT W
• [A] WILLS, L.J.: "jet printer with rotatable jet head", RESEARCH DISCLOSURE, no. 228, April 1983 (1983-04-01), Havant Hampshire, Great-Britain, pages 22817, XP002109052

Cited by
DE10016412A1; DE10016412C2; US7467847B2; US6935738B2; EP1429319B1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0952003 A1 19991027; EP 0952003 B1 20040630; DE 69918355 D1 20040805; DE 69918355 T2 20050630; JP H11334046 A 19991207

DOCDB simple family (application)
EP 99303072 A 19990421; DE 69918355 T 19990421; JP 11252899 A 19990420