

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 November 2001 (29.11.2001)

PCT

(10) International Publication Number
WO 01/89844 A1

(51) International Patent Classification⁷: **B41J 2/14**,
2/145, B81B 7/04

(21) International Application Number: PCT/AU00/00592

(22) International Filing Date: 24 May 2000 (24.05.2000)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **SILVERBROOK RESEARCH PTY. LTD.** [AU/AU]; 393 Darling Street, Balmain, NSW 2041 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SILVERBROOK, Kia** [AU/AU]; Silverbrook Research Pty. Ltd., 393 Darling Street, Balmain, NSW 2041 (AU).

(74) Agent: **SILVERBROOK, Kia**; Silverbrook Research Pty. Ltd., 393 Darling Street, Balmain, NSW 2041 (AU).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

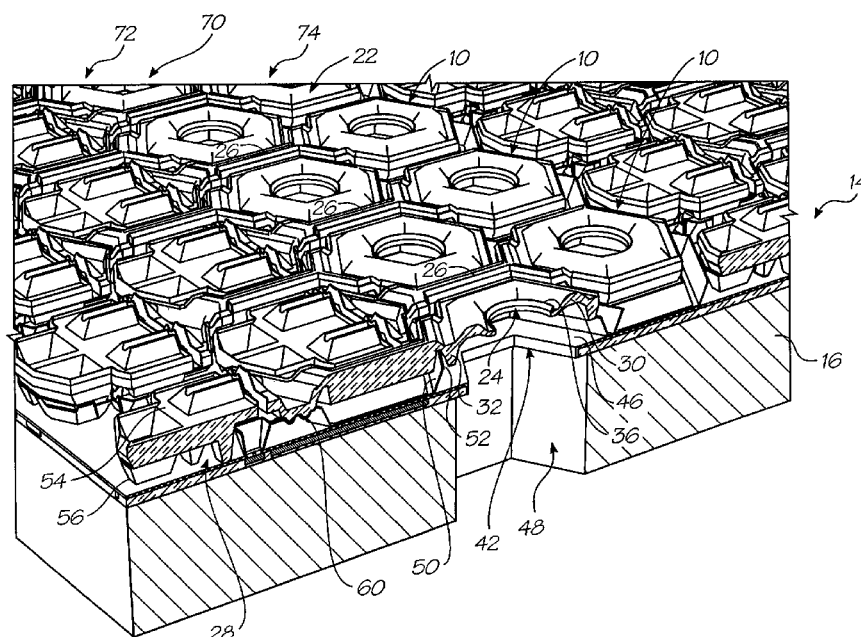
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INK JET PRINthead NOZZLE ARRAY



(57) Abstract: An ink jet printhead nozzle array (14) includes a plurality of nozzle assemblies (10). Each nozzle assembly (10) comprises an ink ejection nozzle (22), an actuator (28) and a connecting member (26) interconnecting the nozzle (22) with its actuator (28). The nozzle assemblies (10) are arranged in rows (72, 74). The nozzles (22) of the assemblies (10) of one row (72) nest between the connecting members (26) of adjacent nozzle assemblies (10) of the other rows (74). The actuators (28) of the assemblies (10) of both rows (72, 74) are arranged on the same side of the rows (72, 74).