(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 October 2007 (11.10.2007)

PCT

(10) International Publication Number
WO 2007/113554 A3

(51) International Patent Classification:
B41J 2/14 (2006.01)

(21) International Application Number:
PCT/GB2007/001228

(22) International Filing Date: 3 April 2007 (03.04.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0606685.6 3 April 2006 (03.04.2006) GB

(71) Applicant *(for all designated States except US)*: **XAAR TECHNOLOGY LIMITED** [GB/GB]; Science Park, Cambridge CB4 0XR (GB).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **DRURY, Paul, Raymond** [GB/GB]; 8 New Road, Great Chishill, Royston, Hertfordshire SG8 8ST (GB). **TEMPLE, Stephen** [GB/GB]; The Windmill, Impington, Cambridge CB4 9NU (GB).

(74) Agents: **GARRATT, Peter, Douglas** et al.; Mathys & Squire, 120 Holborn, London EC1N 2SQ (GB).

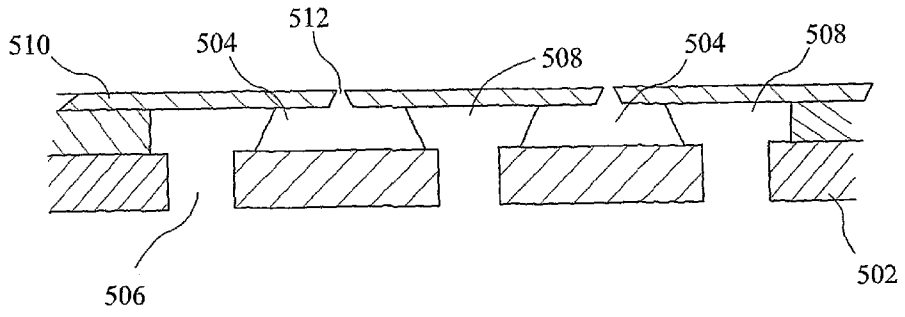
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
28 February 2008

(54) Title: DROPLET DEPOSITION APPARATUS



(57) Abstract: Droplet deposition apparatus comprising an array of fluid chambers defined by a pair of opposing chamber walls, and in fluid communication with a nozzle for droplet ejection therefrom; a cover member is joined to the edges of the chamber walls and thus seals one side of the chambers. The cover member has a ratio of cover thickness to chamber wall separation less than or equal to 1:1.

WO 2007/113554 A3