

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 August 2002 (15.08.2002)

PCT

(10) International Publication Number
WO 2002/062582 A1

(51) International Patent Classification⁷: **B41J 2/135**,
2/165, 2/195

Kia [AU/AU]; Silverbrook Research Pty Ltd, 393 Darling
Street, Balmain, New South Wales 2041 (AU).

(21) International Application Number:
PCT/AU2002/000068

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

(22) International Filing Date: 22 January 2002 (22.01.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PR 2924 6 February 2001 (06.02.2001) AU

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, 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, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **SILVER-
BROOK RESEARCH PTY. LTD.** [AU/AU]; 393 Darling
Street, Balmain, New South Wales 2041 (AU).

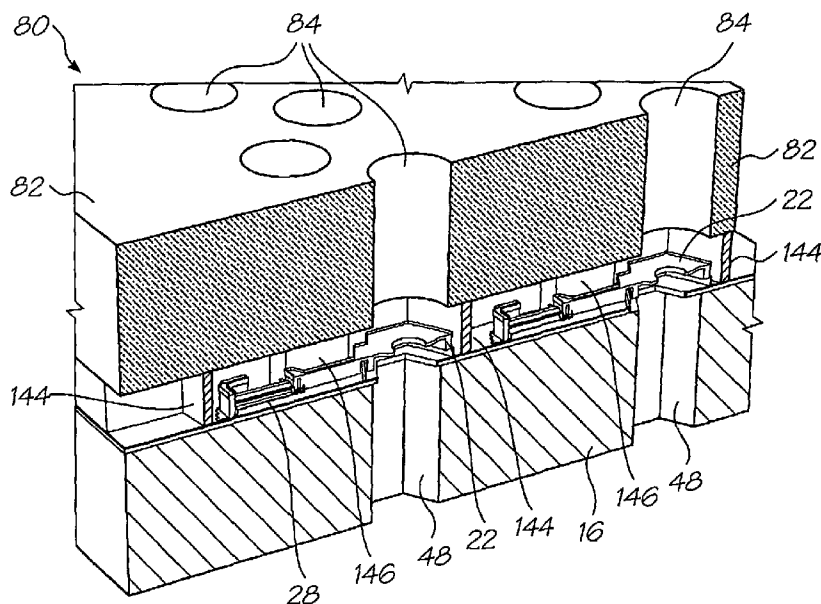
(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,
GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **SILVERBROOK,**

[Continued on next page]

(54) Title: FLOODED NOZZLE DETECTION



(57) Abstract: A nozzle guard (80) for an ink jet printer with an array (14) of nozzles (22) and respective ink ejection means for ejecting ink onto media to be printed. The nozzle guard (80) has ink containment formations (146) that stop any misdirected ink droplets or ink leakage from damaged nozzles interfering with the operation of surrounding nozzles or dropping onto the media. To maintain print quality and to stop the supply of ink to damaged nozzles, each containment formation (146) has an ink sensor. The nozzle or nozzles (22) within the containment formation are disabled if a predetermined amount of ink is present.

WO 2002/062582 A1



(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(15) Information about Correction:

see PCT Gazette No. 40/2005 of 6 October 2005, Section II

Published:

— *with international search report*

(48) Date of publication of this corrected version:

6 October 2005

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.