

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 May 2001 (03.05.2001)

PCT

(10) International Publication Number
WO 01/30589 A1

(51) International Patent Classification⁷: **B43K 8/22**,
29/08, G06K 11/08, 11/18

(21) International Application Number: **PCT/AU00/01275**

(22) International Filing Date: 20 October 2000 (20.10.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PQ 3632 25 October 1999 (25.10.1999) AU
PQ 4392 1 December 1999 (01.12.1999) AU

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

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LAPSTUN, Paul**

[NO/AU]: 13 Duke Avenue, Rodd Point, NSW 2046 (AU).
SILVERBROOK, Kia [AU/AU]; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041 (AU).
KING, Tobin, Allen [AU/AU]; Unit 2, 125 Cremorne Road, Cremorne, NSW 2090 (AU).

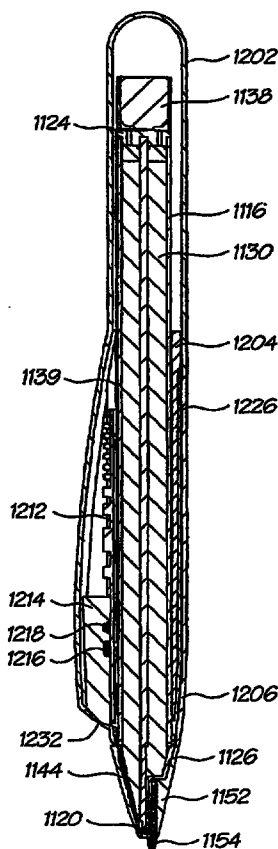
(74) Agent: **SILVERBROOK, Kia**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041 (AU).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, 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

[Continued on next page]

(54) Title: **ELECTRONICALLY CONTROLLABLE PEN WITH CODE SENSOR**



(57) Abstract: A pen including a marking device (1120) such as an ink jet head, the pen being operative to mark a visible path onto a surface, the marking device being electronically controllable to change an attribute of the path such as colour or line thickness. The pen includes a user interface such as buttons or a slider and a display whereby a user may modify the attribute. A sensor (1214) is capable of sensing images including coded data. The data may relate to e.g. a colour of the to be selected and can be stored in a memory of the pen. The data may be used to calculate position and speed of the pen to identify the text written and writing speed. Alternatively an additional sensor detects position and speed or colour.

WO 01/30589 A1



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).

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.

Published:

-- *With international search report.*