(19) World Intellectual Property Organization

International Bureau



(10) International Publication Number

(43) International Publication Date

7 September 2007 (07.09.2007)

(51) International Patent Classification: **B41,J** 3/36 (2006.01)

(21) International Application Number:

PCT/US2007/004534

(22) International Filing Date:

20 February 2007 (20.02.2007)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11/380,878

23 February 2006 (23.02.2006)

(71) Applicant (for all designated States except US): LEX-MARK INTERNATIONAL, INC. [US/US]; 740 West New Circle Road, Lexington, KY 40550 (US).

(72) Inventors; and

Inventors/Applicants (for US only): ANDERSON, Frank, Edward [US/US]; 700 Davis-turkeyfoot Road, Sadieville, KY 40370 (US). NORASAK, Sam [US/US]; 3120 Scottish Trace, Lexington, KY 40509 (US).

WO 2007/100587 A3

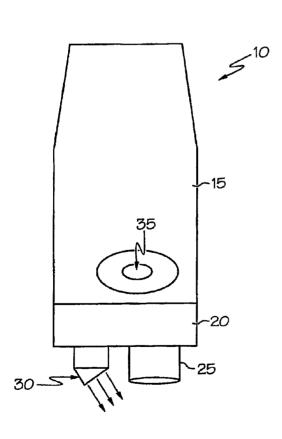
(74) Agent: KAHLE, Neill, R.; Lexmark International, Inc, 740 West New Circle Road, Lexington, KY 40550 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, 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, LV, 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, 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).

[Continued on next page]

(54) Title: HAND-HELD INK JET PEN



(57) Abstract: Hand-held ink jet pen having an ink reservoir, a printhead and a power source. The ink jet pen having a surface contact sensor and an override jetting button. The surface contact sensor provides a signal to the printhead when the printhead is in close proximity to or in contact with the substrate. The override jetting button provides ejection of ink regardless of the signal of the surface contact sensor. Hand-held ink jet pen having a removable printhead cap. Printhead cap has an absorbent pad adapted for maintenance of the printhead.



Published:

(88) Date of publication of the international search report:

— with international search report

2 October 2008

INTERNATIONAL SEARCH REPORT

International application No.

			PCT/US07/04534	
A. CLAS	SIFICATION OF SUBJECT MATTER B41J 3/36(2006.01)			
USPC: According to	347/109,108 International Patent Classification (IPC) or to both na	tional classification and	IPC	
B. FIELI	DS SEARCHED			
1	cumentation searched (classification system followed b 17/109, 108	y classification symbol:	s)	
Documentation	on searched other than minimum documentation to the	extent that such docum	ents are included in	n the fields searched
	ta base consulted during the international search (name	e of data base and, whe	re practicable, sear	ch terms used)
C. DOC	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the releva	ant passages	Relevant to claim No.
X 	WO 2005/037562 A1 (Bich et al.) 28 April 2005 (28	3.04.2005) see Abstract	, element 3-5,	1-13
Y	figure 1-7			2, 7-9
X,P	S 2007/0076083 A1 (Gray et al) 5 April 2007 (05.04.2007), [0021]-[0025], element 1-13 5,30,35,40, 98 figure 1-5			
X T	US 2007/0139508 A1 (Muyskens) 21 June 2007 (21.06.2007) element 15, 30, 10,25,35 1-13 figure 1, see claims 1-20			
х Y	US 5988900 A (Bobry) 23 November 1999 (23.11.1 column 3, line 15-26, 42-53	999) element 12, 25, 26	1,4,6 2-3,5	
	documents are listed in the continuation of Box C.	<u> </u>	amily annex.	
"A" document	pecial categories of cited documents: defining the general state of the art which is not considered to be	date and not it		ernational filing date or priority eation but cited to understand the ention
	lar relevance plication or patent published on or after the international filing date	considered no		claimed invention cannot be ered to involve an inventive step
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of p	particular relevance; the involve an inventive step	claimed invention cannot be p when the document is n documents, such combination
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious	to a person skilled in th	e art
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search 07 May 2008 (07.05.2008)		Date of mailing of the integrational search report		
	ailing address of the ISA/US	Authorized officer	<u> </u>	1.1000
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Stephen D. Meier Shum C Harry Telephone No. 305-4900		
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201				

Form PCT/ISA/210 (second sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US07/04534

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6172691 B1 (Belon et al.) 09 January 2001 (09.01.2001), column 3, line 15-25, column 9, line 25-45	
		·
		·