(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 10 November 2005 (10.11.2005)

(10) International Publication Number WO 2005/104655 A3

(51) International Patent Classification: *G06K 7/10* (2006.01) *B65D 85/00* (2006.01)

(21) International Application Number:

PCT/IB2005/051479

(22) International Filing Date: 5 May 2005 (05.05.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/568,477 5 May 2004 (05.05.2004) US

(71) Applicant (for all designated States except US): KHY-BER TECHNOLOGIES CORPORATION [US/US]; 2841 Riviera Drive, Suite 340, Akron, OH 44333 (US).

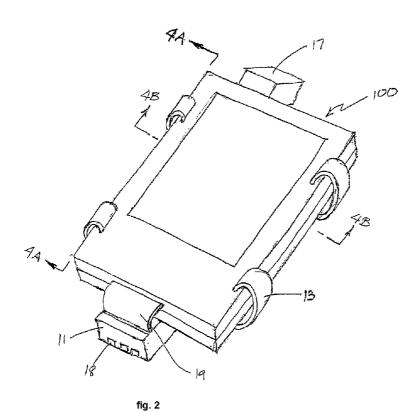
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): KUMAR, Rajendra [US/US]; 712 Stonecliff Drive, Akron, OH 44313 (US).
- (74) Agents: OLDHAM, Scott M. et al.; Hahn Loeser & Parks, LLP, One Gojo Plaza, Suite 300, Akron, OH 44311-1076 (US).

- (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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, 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).

Published:

- with international search report
- (88) Date of publication of the international search report: 16 April 2009

(54) Title: PERIPHERAL UNIT ADAPTED TO VARIABLY SIZED HANDHELD HOST DEVICES



(57) Abstract: A peripheral unit system that provides a universally usable system for adding peripheral functions (17) to off-the-shelf handheld host devices (100) of variable size and configuration The system and methods according to the invention allow adaptation to variably sized handheld host devices without the need to customize the peripheral unit to the host device The peripheral unit comprises a housing (11) having a portion configured to engage with a handheld host device of various sizes and electrical configurations An attachment mechanism (13) is secured to the host device by selective adjustment of the size to adapt to a host device

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB05/51479

A. CLASSIFICATION OF SUBJECT MATTER IPC: G06K 7/10(2006.01);B65D 85/00(2006.01)				
USPC: 235/462.47;206/320 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 235/462.47, 462.44, 462.45, 472.01; 206/320, 527				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet				
C. DOC	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
Х	US 6,837,435 B2 (Kehoe et al) 04 June 2005 (04.06.		1, 5-10, 15	
Y	column 3, line 44, column 11, lines 32-52, column 13	3, fine 51 - column 14, fine 29.	2-4, 11-14	
Y	US 2003/0173242 A1 (Fisher, Jr et al) 18 September 2003 (18.09.2003), figures 1, 2, 9, paragraphs 2, 4 and 57.		2-4	
Υ	US 2003/0209604 A1 (Harrison, Jr) 13 November 2003 (13.11.2003), figure 9 and paragraph 11-14			
A	US 6,708,887 B1 (Garrett et al) 23 March 2004 (23.0	1-15		
Further documents are listed in the continuation of Box C. See patent family annex.				
"A" document defining the general state of the art which is not considered to be of		"T" later document published after the inter date and not in conflict with the applicate principle or theory underlying the inver-	ntion but cited to understand the	
particular relevance "E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the	•	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent f		
Date of the actual completion of the international search 19 February 2008 (19.02.2008)		Date of mailing of the international search	n report	
	iling address of the ISA/US	Authorized officer	1157	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Jared J. Fureman Julia Delle Jan		
	. Box 1450 kandria, Virginia 22313-1450	Telephone No. (571) 272-2391		
Facsimile No. (571) 273-3201				

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

INTERNATIONAL SEARCH REPORT	PCT/IB05/51479
	·
Continuation of B. FIELDS SEARCHED Item 3: USPAT, USPGPUB, USOCR, EPO, JPO, DERWENT, IBM TDB	
USPAT, USPGPUB, USOCR, EPO, JPO, DERWENT, IBM TDB search terms: handheld device, pda, personal digital assistant, peripheral, adjustment	, attach

International application No.

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