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

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 22 November 2007 (22.11.2007)

(10) International Publication Number WO 2007/134115 A3

(51) International Patent Classification: G06T 13/00 (2006.01) A63F 13/00 (2006.01) G06T 15/70 (2006.01)

(21) International Application Number:

PCT/US2007/068580

(22) International Filing Date: 9 May 2007 (09.05.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

9 May 2006 (09.05.2006) US 60/746,827 11/746,293 9 May 2007 (09.05.2007) US

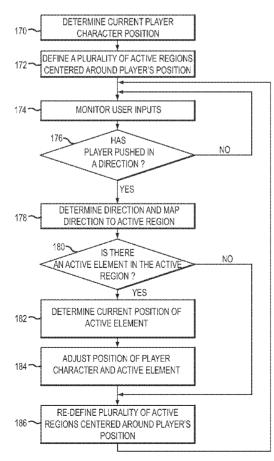
- (71) Applicant (for all designated States except US): DISNEY ENTERPRISES, INC. [US/US]; 500 S. Buena Vista Avenue, Burbank, California 91521-0165 (US).
- (72) Inventors; and
- **Inventors/Applicants** (for US only): BRIDGER. Nicholas [GB/GB]; 3 Queen Caroline Street, Hammersmith, London Greater London W6 9PE (GB). BAINBRIDGE, Ed [GB/GB]; 3 Queen Caroline Street,

Hammersmith, London Greater London W6 9PE (GB). WILLIAMS, Jon [GB/GB]: Eurocom House, Ashbourne Road, Derby DE22 4NB (GB). HUMPHRIES, Matthew [GB/GB]; Eurocom House, Ashbourne Road, Derby DE22 4NB (GB). NAVVARRO, David [GB/GB]; Eurocom House, Ashbourne Road, Derby DE22 4NB (GB). BROWN, Andy [GB/GB]; Eurocom House, Ashbourne Road, Derby DE22 4NB (GB). PRIDMORE, David [GB/GB]: Eurocom House, Ashbourne Road, Derby DE22 4NB (GB). MAINE, Jon [GB/GB]; Eurocom House, Ashbourne Road, Derby DE22 4NB (GB).

- (74) Agent: LEMBKE, Kent, A.; Marsh Fischmann & Breyfogle LLP, 3151 S. Vaughn Way, Suite 411, Aurora, CO 80014 (US).
- (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,

[Continued on next page]

(54) Title: INTERACTIVE ANIMATION



(57) Abstract: An interactive animation environment. The interactive animation environment includes at least one user-controlled object [188], and the animation method for providing this environment includes determining a position of the user-controlled object [170], defining a plurality of regions about the position [172], detecting a user input to move the position of the user-controlled object [174], associating the detected user input to move the position of the user-controlled object with a region in the direction of movement [184], and providing an animation of the user-controlled object associated with the mapped region [216]. A system and controller for implementing the method is also disclosed. A computer program and computer program product for implementing the invention is further disclosed.

WO 2007/134115 A3



- LS, LT, LU, LY, MA, MD, ME, 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
- (88) Date of publication of the international search report: 28 February 2008

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/68580

		<u></u>	
A. CLASSIFICATION OF SUBJECT MATTER IPC: G06T 13/00(2006.01),15/70(2006.01);A63F 13/00(2006.01)			
USPC: 345/473,474;463/7,8,36,37,38 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.: 345/473,474;463/7,8,36,37,38			
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) USPGPUB, USOCR, USPAT, EPO, JPO, Derwent			
	JMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where ap		Relevant to claim No.
Х	US 6,244,959 B1 (MIYAMOTO et al) 12 June 2001 (12.06.2001), column 12, lines 35-36, 41-43, 56-65, column 13, lines 2-17, 54-63, column 14, lines 3-9, 38-42, 46-48, column 15, lines 51-67, column 16, lines 1-35, Figures 2, 3, 11, 14, 16, 17, 18.		1, 34-36, 53
Y			2-33, 37-52
Y	US 2002/0103031 A1 (NEVEU et al) 1 August 2002 (01.08.2002), paragraphs 43-44, 46, 52, 70, Figures 4, 13		2-33, 37-52
Further	documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents:		"T" later document published after the inter	
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be	
"E" earlier app	plication or patent published on or after the international filing date	considered novel or cannot be consider 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) "O" document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance; the c considered to involve an inventive step combined with one or more other such	when the document is
		being obvious to a person skilled in the	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 mailing of the international search report	
03 December 2007 (03.12.2007)		Authorized officer	//
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US			
Commissioner for Patents		Antonio A. Caschera	
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. (703) 306-0377	
Facsimile No. (571) 273-3201			

Form PCT/ISA/210 (second sheet) (April 2005)