

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 September 2002 (12.09.2002)

PCT

(10) International Publication Number
WO 02/071380 A3

- (51) International Patent Classification⁷: G09G 3/20
- (21) International Application Number: PCT/GB02/00934
- (22) International Filing Date: 5 March 2002 (05.03.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2001-062571 6 March 2001 (06.03.2001) JP
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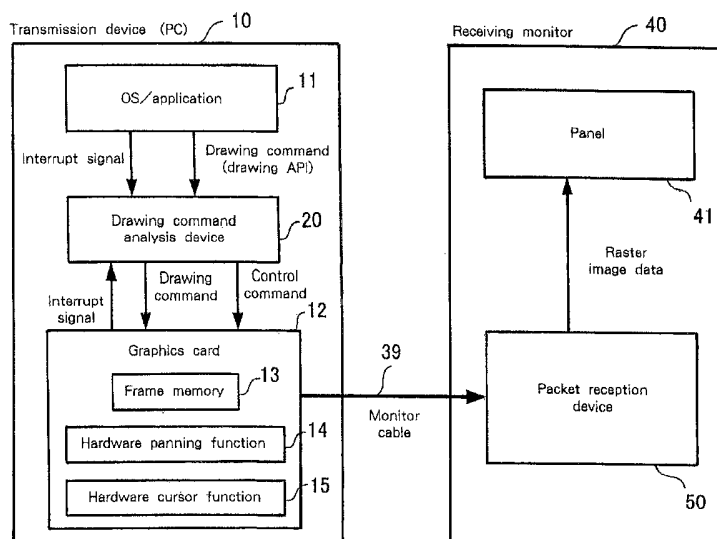
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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, 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.

(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),

[Continued on next page]

(54) Title: IMAGE DISPLAY SYSTEM



(57) Abstract: An image display system comprises: a transmission device (PC) (10), for transmitting image data upon receiving a drawing command from an OS or an application; and a receiving monitor (40), for displaying, on a high-resolution panel (41), image data received via a monitor cable (39), wherein the transmission device (10) includes a drawing command analysis device (20), for detecting an area on a screen wherein the content is changed by the drawing command, and for employing the detected area to calculate an area to be transmitted, and a graphics card (12), for transmitting a packet that includes the calculated area to be transmitted, and control data provided as header data for the area to be transmitted, and wherein the receiving monitor (40) includes a packet reception device (50), for analyzing the header data in the received packet and for, based on the header data, rendering image data in an internally provided frame memory.

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European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
18 September 2003

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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.

INTERNATIONAL SEARCH REPORT

 Interna Application No
 PCT/GB 02/00934

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G09G3/20

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)
 IPC 7 G09G G06F

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 6 014 133 A (TAKENUKI JUN-ICHI ET AL) 11 January 2000 (2000-01-11) abstract; figures 1-5,12,13 column 11, line 26 - column 13, line 33 column 15, line 3 - column 15, line 65 column 16, line 38 - column 15, line 53 -----	8-10,17, 21,23,27 1-5,22, 26,28
A,P	EP 1 107 224 A (IBM) 13 June 2001 (2001-06-13) abstract; figures 1-7 paragraphs '0025!', '0041!', '0054!', '0064!' - '0067!' -----	1-27
A,P	EP 1 156 469 A (MITSUBISHI ELECTRIC CORP) 21 November 2001 (2001-11-21) abstract; figures 1,5 paragraphs '0016!' - '0026!' -----	1-28

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Date of the actual completion of the international search

25 July 2003

Date of mailing of the international search report

04/08/2003

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INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat Application No

PCT/GB 02/00934

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6014133	A	11-01-2000	JP 10074173 A	17-03-1998
EP 1107224	A	13-06-2001	JP 2001166761 A	22-06-2001
			CA 2323995 A1	30-05-2001
			CN 1305155 A	25-07-2001
			EP 1107224 A2	13-06-2001
			TW 487900 B	21-05-2002
			US 2001002124 A1	31-05-2001
EP 1156469	A	21-11-2001	JP 2001331162 A	30-11-2001
			CN 1325098 A	05-12-2001
			EP 1156469 A2	21-11-2001
			US 2001043206 A1	22-11-2001