

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:

26.10.2005 Bulletin 2005/43

(51) Int Cl.7: **G09G 3/36**

(43) Date of publication A2:

20.10.2004 Bulletin 2004/43

(21) Application number: **04004714.4**

(22) Date of filing: **01.03.2004**

(84) Designated Contracting States: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR Designated Extension States: AL LT LV MK	(71) Applicant: Aruze Corporation Tokyo 135-0063 (JP)
(30) Priority: 28.03.2003 JP 2003092521 28.03.2003 JP 2003092529	(72) Inventor: Nonaka, Nobuyuki c/o Aruze Corp. Tokyo 135-0063 (JP)
	(74) Representative: HOFFMANN EITLE Patent- und Rechtsanwälte Arabellastrasse 4 81925 München (DE)

(54) **Image display device in a gaming machine**

(57)

A display device provided in a gaming machine such as a slot machine or a pachinko machine, wherein pixel units a and b are formed by arranging each one of a plurality of kinds of pixel electrodes R, G, and B that displays a predetermined color, one pixel is constituted

by a pair of adjacent pixel units a and b, information signals for one pixel are supplied in the same timing to respective pixel electrodes (Ra, Rb), (Ga, Gb), and (Ba, Bb) for the same color included in each of the pair of pixel units a and b.

Fig.2

The diagram illustrates a pixel unit structure for an image display device. It shows two adjacent pixel units, labeled 'PIXEL UNIT a' and 'PIXEL UNIT b', each containing three subpixels (R, G, B) arranged in a 2x2 grid. The subpixels are labeled as Ra, Ga, Ba for unit a and Rb, Gb, Bb for unit b. The diagram includes a coordinate system (x, y) and a legend indicating that a square represents one pixel and P represents the pitch. The pitch P is divided into two equal parts, each labeled P/2, corresponding to the width of the two pixel units.

EP 1 469 452 A3

Printed by Jouve, 75001 PARIS (FR)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 00 4714

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 2003/016318 A1 (LIANG WEI-CHEN ET AL) 23 January 2003 (2003-01-23) * abstract; figures 3-5 * * paragraphs [0015] - [0018] * -----	1-9	G09G3/36
X	US 2002/015110 A1 (BROWN ELLIOTT CANDICE HELLEN) 7 February 2002 (2002-02-07) * abstract; figures 8,15,16 * * paragraphs [0009] - [0015], [0057], [0073], [0074] * -----	1-9	
X	US 2003/025662 A1 (PARK JOON HA) 6 February 2003 (2003-02-06) * abstract; figures 7,10 * -----	1-9	
X	US 2002/080295 A1 (SOMEYA SAKAE ET AL) 27 June 2002 (2002-06-27) * abstract; figures 9-13 * * paragraph [0089] * -----	1-9	
X	US 5 250 937 A (KIKUO ET AL) 5 October 1993 (1993-10-05) * figures 24,25 * -----	1-9	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	US 2003/060271 A1 (GILMORE JASON C ET AL) 27 March 2003 (2003-03-27) * paragraph [0025]; figure 1 * -----	1-9	G09G G07F A63F
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 30 August 2005	Examiner Wolfrum, G
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

1
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 04 00 4714

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-08-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003016318	A1	23-01-2003	NONE	
US 2002015110	A1	07-02-2002	AU 8089201 A	13-02-2002
			CN 1539132 A	20-10-2004
			EP 1314149 A2	28-05-2003
			JP 2004507773 T	11-03-2004
			WO 0211112 A2	07-02-2002
			US 2005174363 A1	11-08-2005
			US 2003090581 A1	15-05-2003
US 2003025662	A1	06-02-2003	DE 10234963 A1	27-03-2003
			JP 2003149624 A	21-05-2003
			KR 2003011530 A	11-02-2003
			TW 563086 B	21-11-2003
US 2002080295	A1	27-06-2002	JP 2620240 B2	11-06-1997
			JP 63309921 A	19-12-1988
			JP 1169430 A	04-07-1989
			JP 2682827 B2	26-11-1997
			JP 1152428 A	14-06-1989
			US 2001015776 A1	23-08-2001
			US 6184963 B1	06-02-2001
			US 5838399 A	17-11-1998
			US 5708484 A	13-01-1998
			US 5532850 A	02-07-1996
			US 5528396 A	18-06-1996
			US 5331447 A	19-07-1994
			US 2005068485 A1	31-03-2005
			US 5132820 A	21-07-1992
US 5250937	A	05-10-1993	JP 2951352 B2	20-09-1999
			JP 3259115 A	19-11-1991
US 2003060271	A1	27-03-2003	US 2003027624 A1	06-02-2003
			AU 4581802 A	06-02-2003
			CA 2388720 A1	03-02-2003
			EP 1282088 A2	05-02-2003
			ZA 200204667 A	11-12-2003

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82