



(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
04.12.2002 Bulletin 2002/49

(51) Int Cl.7: G09G 3/32

(43) Date of publication A2:
11.04.2001 Bulletin 2001/15

(21) Application number: 00121697.7

(22) Date of filing: 04.10.2000

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(72) Inventors:
• Iketsu, Yuichi
Tokyo (JP)
• Sakaguchi, Yoshikazu
Tokyo (JP)

(30) Priority: 05.10.1999 JP 28416799

(74) Representative: Glawe, Delfs, Moll & Partner
Patentanwälte
Postfach 26 01 62
80058 München (DE)

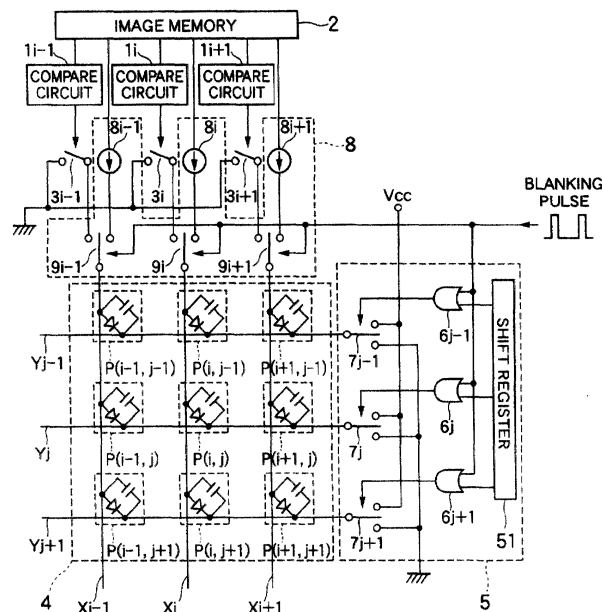
(71) Applicant: NEC CORPORATION
Tokyo (JP)

(54) Driving device and driving method of organic thin film EL display

(57) A comparator (compares the signal voltage $S(i, j)$ applied to the display element $P(i, j)$ on a predetermined data electrode (X_i) on the scanning electrode (Y_j) for the current display period and the signal voltage $S(i, j+1)$ applied to the display element $P(i, j+1)$ on the data electrode (X_i) on the scanning electrode $Y(j+1)$ during

the next display period. A controller controls a discharge of residual electric charges or a quantity of residual electric charges discharged from the data electrode (X_i) during a blanking period immediately before the next display period depending on the comparison result by the comparator.

FIG. 2





European Patent Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 12 1697

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	PATENT ABSTRACTS OF JAPAN vol. 014, no. 317 (P-1073), 9 July 1990 (1990-07-09) -& JP 02 103590 A (NEC KANSAI LTD), 16 April 1990 (1990-04-16) * abstract * * figures 1-3 *	1-7	G09G3/32
D,A	US 5 844 368 A (ISHIZUKA SHINICHI ET AL) 1 December 1998 (1998-12-01) * column 4, line 40 - column 6, line 42; figures 1-4,14 *	1-7	
A	US 5 552 677 A (PAGONES ANDREW) 3 September 1996 (1996-09-03) * column 2, line 36 - column 3, line 12; figures 1,2 *	1,2,7	
A	US 5 923 308 A (KIM MATTHEW ET AL) 13 July 1999 (1999-07-13) * column 2, line 36 - column 3, line 43; figure 1 *	1-7	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G09G
Place of search	Date of completion of the search	Examiner	
MUNICH	9 October 2002	Morris, D	
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	

EPO FORM 1503 03.82 (P04C01)

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

EP 00 12 1697

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.

09-10-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 02103590	A	16-04-1990	NONE	
US 5844368	A	01-12-1998	JP 9232074 A	05-09-1997
US 5552677	A	03-09-1996	FR 2733852 A1	08-11-1996
			JP 8305318 A	22-11-1996
US 5923308	A	13-07-1999	NONE	

专利名称(译)	有机薄膜EL显示器的驱动装置和驱动方法		
公开(公告)号	EP1091340A3	公开(公告)日	2002-12-04
申请号	EP2000121697	申请日	2000-10-04
申请(专利权)人(译)	NEC公司		
当前申请(专利权)人(译)	NEC公司		
[标]发明人	IKETSU YUICHI SAKAGUCHI YOSHIKAZU		
发明人	IKETSU, YUICHI SAKAGUCHI, YOSHIKAZU		
IPC分类号	G09G3/30 G09G3/20 G09G3/32 H01L51/50 H05B33/08 H05B33/12 H05B33/14		
CPC分类号	G09G3/3216 G09G2310/0251 G09G2330/023 G09G2340/16		
优先权	1999284167 1999-10-05 JP		
其他公开文献	EP1091340B1 EP1091340A2		
外部链接	Espacenet		

摘要(译)

比较器 (比较施加到显示元件 $P(i, j)$ 的信号电压 $S(i, j)$ 在扫描电极 (Y_j) 上的预定数据电极 (X_i) 上的当前显示周期和信号电压 $S(i, j+1)$ 在下一个显示周期期间施加到扫描电极 $Y(j+1)$ 上的数据电极 (X_i) 上的显示元件 $P(i, j+1)$)。控制器控制剩余电的放电取决于比较器的比较结果, 在紧接在下一个显示周期之前的消隐期间从数据电极 (X_i) 放电的电荷或一定量的剩余电荷。

FIG. 2

