



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
12.02.2003 Bulletin 2003/07

(51) Int Cl.7: **H05B 33/26**

(43) Date of publication A2:
08.08.2001 Bulletin 2001/32

(21) Application number: **00305900.3**

(22) Date of filing: **12.07.2000**

(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:
• **Wang, Shaw-Jong
Hsinchu (TW)**
• **Shen, Chi-Jung
Chong Ho, Taipei (TW)**

(30) Priority: **04.02.2000 CN 00201695**

(74) Representative:
**O'Connell, David Christopher et al
Haseltine Lake & Co.,
Imperial House,
15-19 Kingsway
London WC2B 6UD (GB)**

(54) **Long-life type colorful electroluminescent display panel**

(57) A long-life type colorful electroluminescent (EL) display panel is disclosed. The EL display panel comprises a luminescent laminate, two electrodes located at the two sides of the luminescent laminate, several terminals, and a display surface. One (1) of the two electrodes includes plural separated sub-electrodes (10,20). Each sub-electrode (10,20) comprises at least one branch portion (11) and a bus bar (19) connecting at least one branch portion (11) to one of the terminals.

Each of the branch portions (11) in one sub-electrode (10) is accompanied with one branch portion (21) in a sub-electrode (20) different from the one sub-electrode (10), and extends in parallel thereto in a position corresponding to a portion of the display surface which is representative of substantially the same area. By means of the above structure, the display panel will have a life span more than double the normal and can display colorfully.

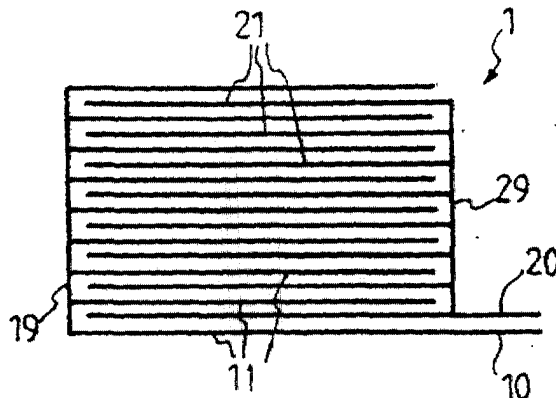


Fig. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 30 5900

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	WO 99 30304 A (PHILLIPS PLASTICS CORP) 17 June 1999 (1999-06-17) * the whole document *	1-12	H05B33/26	
X	WO 99 55121 A (CAMBRIDGE CONSULTANTS ;COX PAUL (GB); BARNARDO CHRISTOPHER JOHN AN) 28 October 1999 (1999-10-28) * the whole document *	1-12		
X	WO 98 07136 A (ADD VISION INC) 19 February 1998 (1998-02-19) * the whole document *	1-12		
X	PATENT ABSTRACTS OF JAPAN vol. 018, no. 372 (E-1577), 13 July 1994 (1994-07-13) & JP 06 104087 A (MATSUSHITA ELECTRIC IND CO LTD), 15 April 1994 (1994-04-15) * abstract *	1-12		
X	US 3 075 122 A (WILLI LEHMANN) 22 January 1963 (1963-01-22) * the whole document *	1-12		TECHNICAL FIELDS SEARCHED (Int.Cl.7)
X	DE 38 02 318 A (BECK GERHARD DIPL ING FH ;MOSER HELMUT (DE)) 3 August 1989 (1989-08-03) * the whole document *	1-12		H05B
X	DE 38 02 317 A (BECK GERHARD DIPL ING FH ;MOSER HELMUT (DE); KUNZ SIGBERT (DE)) 3 August 1989 (1989-08-03) * the whole document *	1-12		
X	WO 99 16289 A (KONINKL PHILIPS ELECTRONICS NV ;PHILIPS SVENSKA AB (SE)) 1 April 1999 (1999-04-01) * the whole document *	1-12		
-/--				
The present search report has been drawn up for all claims				
Place of search		Date of completion of the search	Examiner	
THE HAGUE		17 December 2002	Drouot-Onillon, M-C	
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 92 (P04031)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 30 5900

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	WO 94 14180 A (DUREL CORP) 23 June 1994 (1994-06-23) * the whole document * -----	1-12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 December 2002	Examiner Drouot-Onillon, M-C
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>& : member of the same patent family, corresponding document</p>			

EPC FORM 1503 03 82 (F04D01)

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

EP 00 30 5900

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.

17-12-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9930304	A	17-06-1999	AU 1633499 A	28-06-1999
			CA 2313468 A1	17-06-1999
			EP 1042745 A1	11-10-2000
			JP 2001526444 T	18-12-2001
			WO 9930304 A2	17-06-1999
			US 6255776 B1	03-07-2001
WO 9955121	A	28-10-1999	AT 223139 T	15-09-2002
			AU 3617699 A	08-11-1999
			DE 69902656 D1	02-10-2002
			EP 1080609 A1	07-03-2001
			WO 9955121 A1	28-10-1999
			JP 2002512434 T	23-04-2002
WO 9807136	A	19-02-1998	US 6054809 A	25-04-2000
			AU 4071297 A	06-03-1998
			BR 9711964 A	05-10-1999
			CN 1233344 A	27-10-1999
			EP 0950343 A2	20-10-1999
			JP 2002502540 T	22-01-2002
			KR 2000029963 A	25-05-2000
			NZ 334542 A	22-12-2000
			WO 9807136 A2	19-02-1998
			ZA 9707306 A	20-02-1998
			US 6034481 A	07-03-2000
JP 06104087	A	15-04-1994	NONE	
US 3075122	A	22-01-1963	NONE	
DE 3802318	A	03-08-1989	DE 3802318 A1	03-08-1989
DE 3802317	A	03-08-1989	DE 3802317 A1	03-08-1989
WO 9916289	A	01-04-1999	DE 69802907 D1	24-01-2002
			DE 69802907 T2	14-08-2002
			EP 0963686 A1	15-12-1999
			WO 9916289 A1	01-04-1999
			JP 2001506054 T	08-05-2001
			US 6054725 A	25-04-2000
WO 9414180	A	23-06-1994	EP 0678216 A1	25-10-1995
			JP 8505000 T	28-05-1996
			US 6069444 A	30-05-2000
			WO 9414180 A1	23-06-1994
			US 5565733 A	15-10-1996

EPO FORM P/459

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

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

EP 00 30 5900

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.

17-12-2002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9414180 A		US 6465951 B1	15-10-2002
		US 5811930 A	22-09-1998

EPC FORM P0459

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