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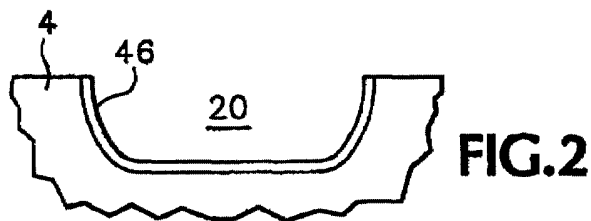
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(54) **Mechanism for maintaining pressure of helium in channels of a palc display panel**

(57) A channel surface of a glass channel substrate for a PALC panel is loaded with helium to a sufficient partial pressure that when the channel substrate is used

in a PALC panel with helium as ionizable gas, helium is depleted from the channel at a substantially lower rate than if the channel surface had not been loaded with helium.



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EUROPEAN SEARCH REPORT

Application Number
EP 00 30 3363

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)
E	WO 00 70397 A (KONINKL PHILIPS ELECTRONICS NV) 23 November 2000 (2000-11-23) * page 3, line 3 - line 18; claims 1,3,6; figures 4-7 *	3	H01J17/26 H01J17/48
A	US 4 663 564 A (KOBALÉ MANFRED ET AL) 5 May 1987 (1987-05-05) * column 1, line 59 - column 2, line 29 *	1,2,5,6	
A	DE 34 19 625 A (SIEMENS AG) 28 November 1985 (1985-11-28) * page 4, line 19 - line 24 *	3,7	
A	EP 0 833 362 A (TEKTRONIX INC) 1 April 1998 (1998-04-01) * column 4, line 42 - column 5, line 39 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01J G02F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 3 July 2002	Examiner F de Ruyter-Noordman
CATEGORY OF CITED DOCUMENTS		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	
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			

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

EP 00 30 3363

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
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03-07-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0070397	A	23-11-2000	WO 0070397 A1	23-11-2000
US 4663564	A	05-05-1987	EP 0173217 A1	05-03-1986
			JP 61061343 A	29-03-1986
DE 3419625	A	28-11-1985	DE 3329106 A1	21-02-1985
			DE 3419625 A1	28-11-1985
			AT 26767 T	15-05-1987
			DE 3463316 D1	27-05-1987
			EP 0135115 A1	27-03-1985
			JP 60056336 A	01-04-1985
			US 4634935 A	06-01-1987
EP 0833362	A	01-04-1998	EP 0833362 A2	01-04-1998
			JP 10142586 A	29-05-1998
			US 6137550 A	24-10-2000