



SUPPLEMENTARY  
EUROPEAN SEARCH REPORT

Application Number

EP 00 97 9031

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	US 5 712 652 A (SATO HAJIME [JP] ET AL) 27 January 1998 (1998-01-27) * the whole document * -----	1-5, 7-11,14	INV. G02F1/1368 G02F1/133 G09G3/36
X	US 5 977 940 A (AKIYAMA MASAHIKO [JP] ET AL) 2 November 1999 (1999-11-02) * the whole document * -----	1,2,14	
X	US 5 952 991 A (AKIYAMA MASAHIKO [JP]) 14 September 1999 (1999-09-14) * column 1, line 1 - column 3, line 24; figures 1,2,4,12-15 * * column 5, line 21 - column 8, line 67 * -----	1,2,7,8, 10,11,14	
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G G02F
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
4	Place of search	Date of completion of the search	Examiner
	Munich	5 June 2007	Bader, Arnaud
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			

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

EP 00 97 9031

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.

05-06-2007

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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			JP	8286170 A		01-11-1996
US 5977940	A	02-11-1999	JP	3305946 B2		24-07-2002
			JP	9243994 A		19-09-1997
US 5952991	A	14-09-1999		NONE		

专利名称(译)	液晶显示器		
公开(公告)号	<a href="#">EP1174758A4</a>	公开(公告)日	2007-07-18
申请号	EP2000979031	申请日	2000-11-30
[标]申请(专利权)人(译)	三菱电机株式会社		
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IPC分类号	G02F1/133 G09G3/20 G09G3/36 G02F1/1368		
CPC分类号	G09G3/2011 G02F1/13306 G09G3/2074 G09G3/2077 G09G3/3648 G09G3/3659 G09G2300/0809 G09G2300/0842 G09G2300/0876 G09G2310/0259 G09G2320/0209 G09G2320/0247 G09G2330/021 G09G2330/08		
优先权	1999344832 1999-12-03 JP		
其他公开文献	<a href="#">EP1174758A1</a>		
外部链接	<a href="#">Espacenet</a>		

## 摘要(译)

一个目的是提供一种液晶显示装置，其可以在保持显示质量的同时以低功耗驱动。一种液晶显示装置，包括多个第一垂直扫描线和多个水平扫描线，所述多条水平扫描线以矩阵形式形成在基板上。第一开关装置连接到水平扫描线并且可由第一垂直扫描线控制;控制电容器元件，用于在连接到第一开关装置的水平扫描线上保持控制信号;第二开关装置，用于将像素信号线和像素电极连接在一起，将像素信号线上的电位写入像素电极，第二开关装置连接到控制电容元件。

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X	US 5 712 652 A (SATO HAJIME [JP] ET AL) 27 January 1998 (1998-01-27) * the whole document *--	1-5, 7-11,14
X	US 5 927 940 A (AKIYAMA MASAHICO [JP] ET AL) 2 November 1999 (1999-11-02) * the whole document *	1,2,14
X	US 5 952 991 A (AKIYAMA MASAHICO [JP]) 14 September 1999 (1999-09-14) * column 1, line 1 - column 3, line 24; figures 1,2,4,12-15 *-- * column 5, line 21 - column 8, line 67 *	1,2,7,8, 10,11,14
The supplementary search report has been based on the last set of claims valid and available at the start of the search.		
4	Munich	5 June 2007
SEARCHED		SEARCHED
CATEGOR Y OF CITED DOCUMENTS		EXAMINER
<input checked="" type="checkbox"/> particularly relevant if taken alone <input type="checkbox"/> prior art in combination with another document of the same category <input type="checkbox"/> document forming the state of the art <input type="checkbox"/> non-written disclosure <input type="checkbox"/> intermediate document		T: theory or principle underlying the invention A: earlier publication, but published on, or after, the filing date D: document relating to U: document cited for other reasons A: member of the same patent family, corresponding
EPO		