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㉗ Applicant : **OIS OPTICAL IMAGING SYSTEMS,  
Inc.  
1896 Barrett Street  
Troy, Michigan 48084 (US)**

㉘ Inventor : **den Boer, Willem  
756 Coachman  
Troy, Michigan 48084 (US)**

㉙ Representative : **Kügele, Bernhard et al  
c/o NOVAPAT-CABINET CHEREAU 9, Rue du  
Valais  
CH-1202 Genève (CH)**

㉚ **Balanced drive symmetric MIM diode configuration for liquid crystal displays and method of operating same.**

㉛ An active matrix liquid crystal display (10) and method for rapidly storing and efficiently retaining electric charge in selected ones of a plurality of storage elements (46) are disclosed. Each storage element (46) is addressable through a pair of parallel row select address lines (12, 12', 14, 14') and a column address line (18, 20). A pair of MIM devices (34, 36) are coupled between the row select address lines (12, 12') and the storage element (46) is coupled between the common node (38) of the MIM devices (34, 36) and the column address line (18) to which charging potential is applied. During the charging of the storage element, operating potentials which are substantially equal and opposite in polarity are applied to the row select line pair to forward bias both MIM devices and thereafter operating potentials which are also substantially equal and opposite in polarity are applied to the two select line pair to reverse bias both MIM devices to provide retention of the charge in the storage element.

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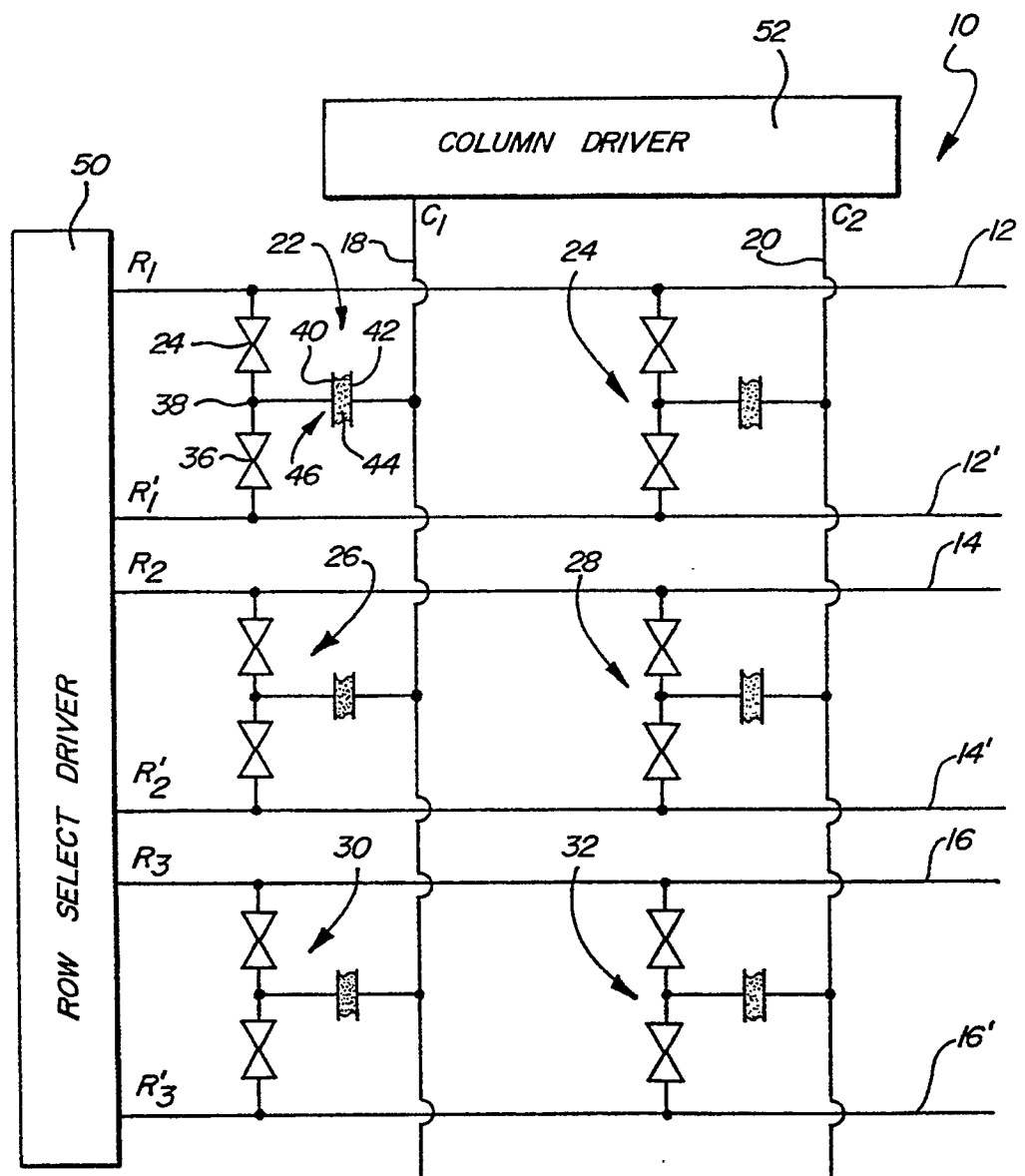


FIG - 1



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number

EP 90 81 0989

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.5)
A	GB-A-2 217 891 (PHILIPS ELECTRONIC & ASSOCIATED INDUSTRIES) * Claims 1,5,9; figure 1 *	1,5	G 09 G 3/36
A	FR-A-2 605 778 (THOMSON-CSF) * Claims 1,2 *	1,5	
A	EP-A-0 217 466 (N.V. PHILIPS' GLOEILAMPENFABRIEKEN)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G 09 G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31-07-1991	Examiner TIBAU M.J.P.G.
<p><b>CATEGORY OF CITED DOCUMENTS</b></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  &amp; : member of the same patent family, corresponding document</p>			

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