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(54) **Reflection plate, manufacturing method thereof, liquid crystal display device and manufacturing method thereof**

(57) A reflection plate (11) is formed so as to have a wavy surface, and to have uneven distribution of normal line directions of the surface in terms of a specific azimuth angle. The wavy surface is formed due to line-shaped protruding patterns (18) and an insulation film

layer (19). The protruding patterns (18) intersect with one another to form concave portions each having a shape of a closed figure. The protruding patterns (18) are formed by patterning, such that they have almost uniform thickness.

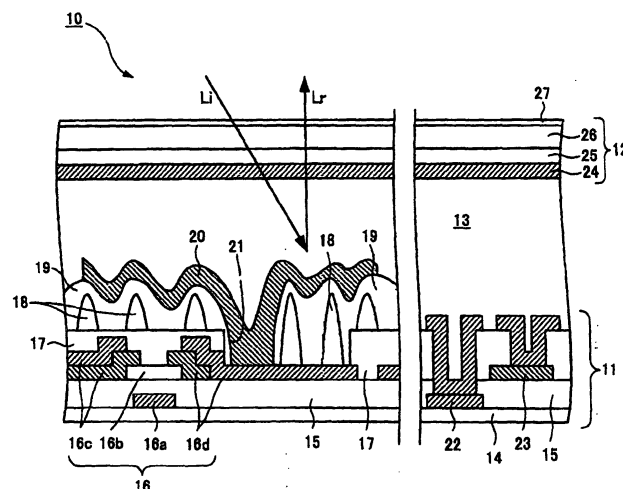


FIG. 1



European Patent
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EUROPEAN SEARCH REPORT

Application Number
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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. 2000, no. 13, 5 February 2001 (2001-02-05) -& JP 2000 292785 A (SAMSUNG ELECTRONICS CO LTD), 20 October 2000 (2000-10-20) * the whole document * -& US 6 522 375 B1 (JANG YONG-KYU ET AL) 18 February 2003 (2003-02-18) ---	1-13, 15-18,20	G02F1/1335 G02F1/1343 G02B5/10
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X	US 5 973 843 A (NAKAMURA HISAKAZU) 26 October 1999 (1999-10-26) * column 7, line 48 - column 8, line 24 * ---	1,10	
X	US 6 163 353 A (TING J DAI-LIANG) 19 December 2000 (2000-12-19) * abstract; figures 3,4 * -----	1,10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G02F G02B
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 22 October 2003	Examiner Noirard, P
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
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EP 02 01 3942

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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专利名称(译)	反射板，其制造方法，液晶显示装置及其制造方法		
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外部链接	Espacenet		

摘要(译)

反射板（11）形成为具有波状表面，并且在特定方位角方面具有表面的法线方向的不均匀分布。由于线形突出图案（18）和绝缘膜层（19）形成波状表面。突出图案（18）彼此交叉以形成凹部，每个凹部具有闭合形状的形状。突出图案（18）通过图案化形成，使得它们具有几乎均匀的厚度。

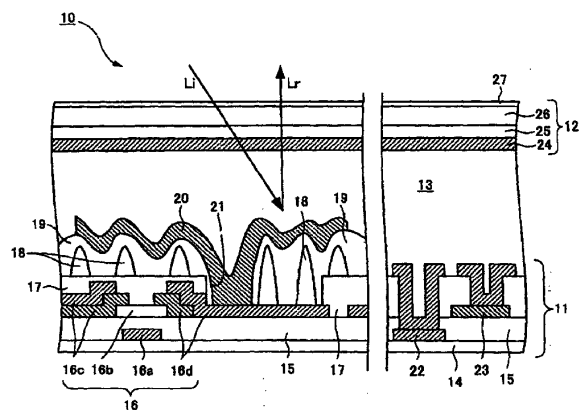


FIG. 1