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**Cross, Rupert Edward Blount et al**
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(54) **Reflective liquid crystal display**

(57) Between a substrate (10) comprising reflective display electrodes (50) each including a flat portion (FL), a slope portion (SL), and a base portion (BA), and TFTs, and an opposing substrate (30) on which a color filter (31) and an opposing electrode (34) is accumulated, and on the side of a viewer (101), a light diffuser layer (43) having the haze value of 33 %, a retardation film (44), and a polarization film (45) are provided, liquid crystal (21) is disposed. The angle of inclination (angle of elevation) of the slope portion (SL) with regard to the base portion (BA) is greater than 0° and 8° or less. With this structure, it is possible to provide a reflective LCD capable of achieving increased luminance in each display pixel and of providing bright display over a wide range of viewing angles.

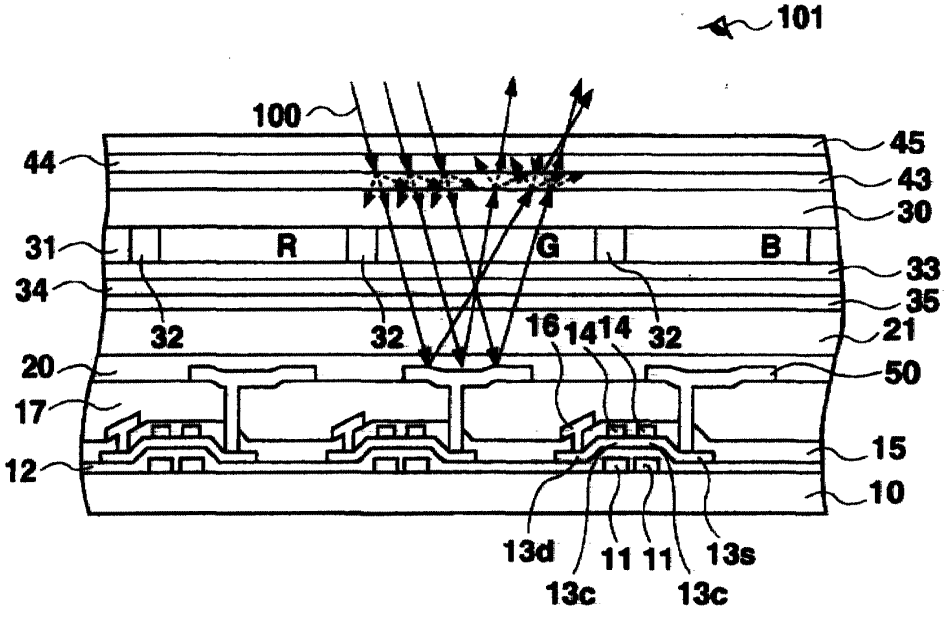


Fig. 3

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# EUROPEAN SEARCH REPORT

Application Number
EP 01 30 0957

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| | -/-- | | |

The present search report has been drawn up for all claims

| Place of search | Date of completion of the search | Examiner |
|---|---|---|
| MUNICH | 11 February 2002 | Ammerlahn, D |

CATEGORY OF CITED DOCUMENTS

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Application Number
EP 01 30 0957

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D : document cited in the application
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& : member of the same patent family, corresponding document

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## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 01 30 0957

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| 专利名称(译) | 反光液晶显示器 | | |
| 公开(公告)号 | EP1128202A3 | 公开(公告)日 | 2002-04-10 |
| 申请号 | EP2001300957 | 申请日 | 2001-02-02 |
| [标]申请(专利权)人(译) | 三洋电机株式会社 | | |
| 申请(专利权)人(译) | SANYO ELECTRIC CO. , LTD. | | |
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| [标]发明人 | NORITAKE KAZUTO | | |
| 发明人 | NORITAKE, KAZUTO | | |
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| CPC分类号 | G02F1/133553 G02F1/133504 G02F1/13439 G02F2201/123 G02F2203/02 | | |
| 优先权 | 2000024647 2000-02-02 JP | | |
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摘要(译)

在包括反射显示电极（50）的基板（10）之间，每个反射显示电极（50）包括平坦部分（FL），倾斜部分（SL）和基部（BA），以及TFT和相对基板（30），在基板（10）上滤色器（31）和相对电极（34）聚集在一起，并且在观察者（101）一侧，具有雾度值为33％的光漫射层（43），延迟膜（44）和提供偏振膜（45），设置液晶（21）。倾斜部分（SL）相对于基部（BA）的倾斜角（仰角）大于0°且小于等于8°。利用这种结构，可以提供一种反射型LCD，其能够在每个显示像素中实现增加的亮度并且在宽视角范围内提供明亮的显示。


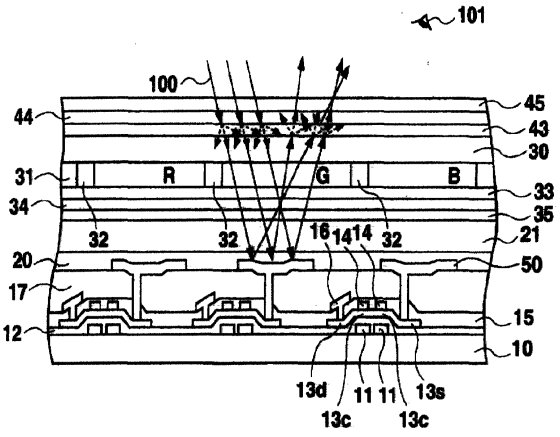


Fig. 3