

EXHIBIT 6



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(12) **United States Patent**
Kataoka et al.

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(54) **LIQUID CRYSTAL DISPLAY DEVICE AND METHOD FOR FABRICATING THE SAME**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(22) Filed: **Mar. 18, 2011**

(65) **Prior Publication Data**

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Related U.S. Application Data

(60) Division of application No. 12/268,722, filed on Nov. 11, 2008, now Pat. No. 7,952,675, which is a continuation of application No. 11/542,308, filed on Oct. 2, 2006, now Pat. No. 7,486,366, which is a division of application No. 09/903,010, filed on Jul. 11, 2001, now Pat. No. 7,145,622.

(30) **Foreign Application Priority Data**

Sep. 27, 2000 (JP) 2000-295266

(51) **Int. Cl.**
G02F 1/1343 (2006.01)

(52) **U.S. Cl.**
USPC **349/143**; 349/130; 349/139; 349/142; 349/144; 257/E21.31; 257/E21.302; 257/E21.414

(58) **Field of Classification Search**
USPC 349/130, 139, 142-144
See application file for complete search history.

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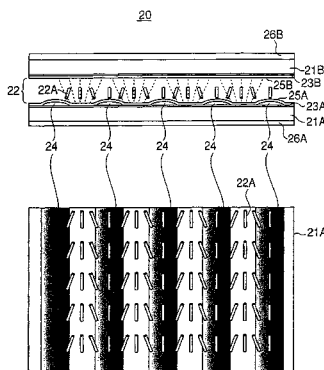
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(57) **ABSTRACT**

A liquid crystal display device including first and second substrates, with a liquid crystal layer sealed therebetween; and first and second electrodes formed, respectively, on the first and second substrates. A first molecule orientation film is formed on the first substrate so as to cover the first electrode and a second molecule orientation film formed on the second substrate so as to cover the second electrode. A polarizer with a light absorption axis P is provided outside of the first substrate, and an analyzer with a light absorption axis A is provided outside of the second substrate. The light absorption axis A crosses the light absorption axis P. A plurality of micro structures are associated with at least one of the first and second electrodes, wherein the micro structures are obliquely arranged with respect to the light absorption axis P and the light absorption axis A.

21 Claims, 65 Drawing Sheets



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FIG. 1A
PRIOR ART

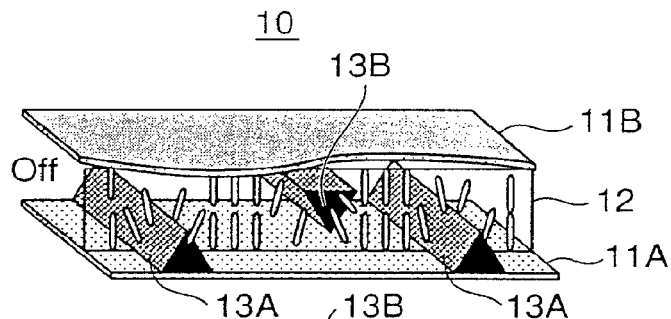


FIG. 1B
PRIOR ART

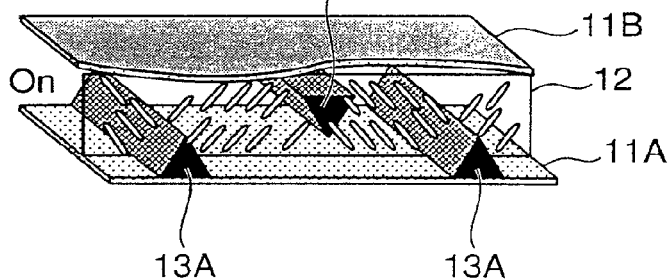
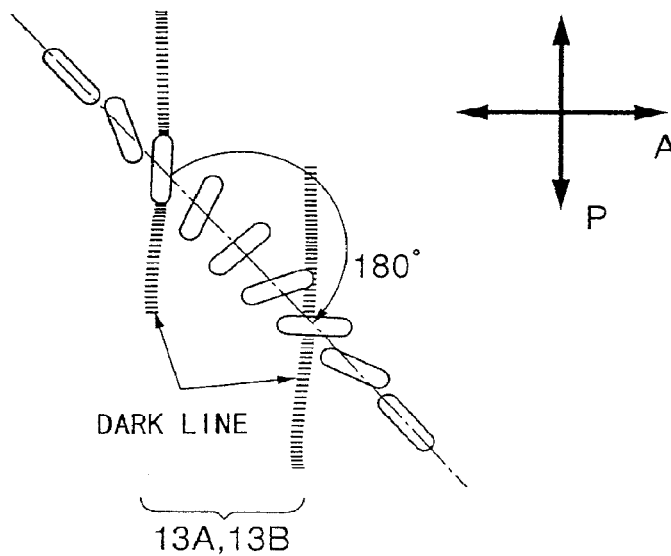
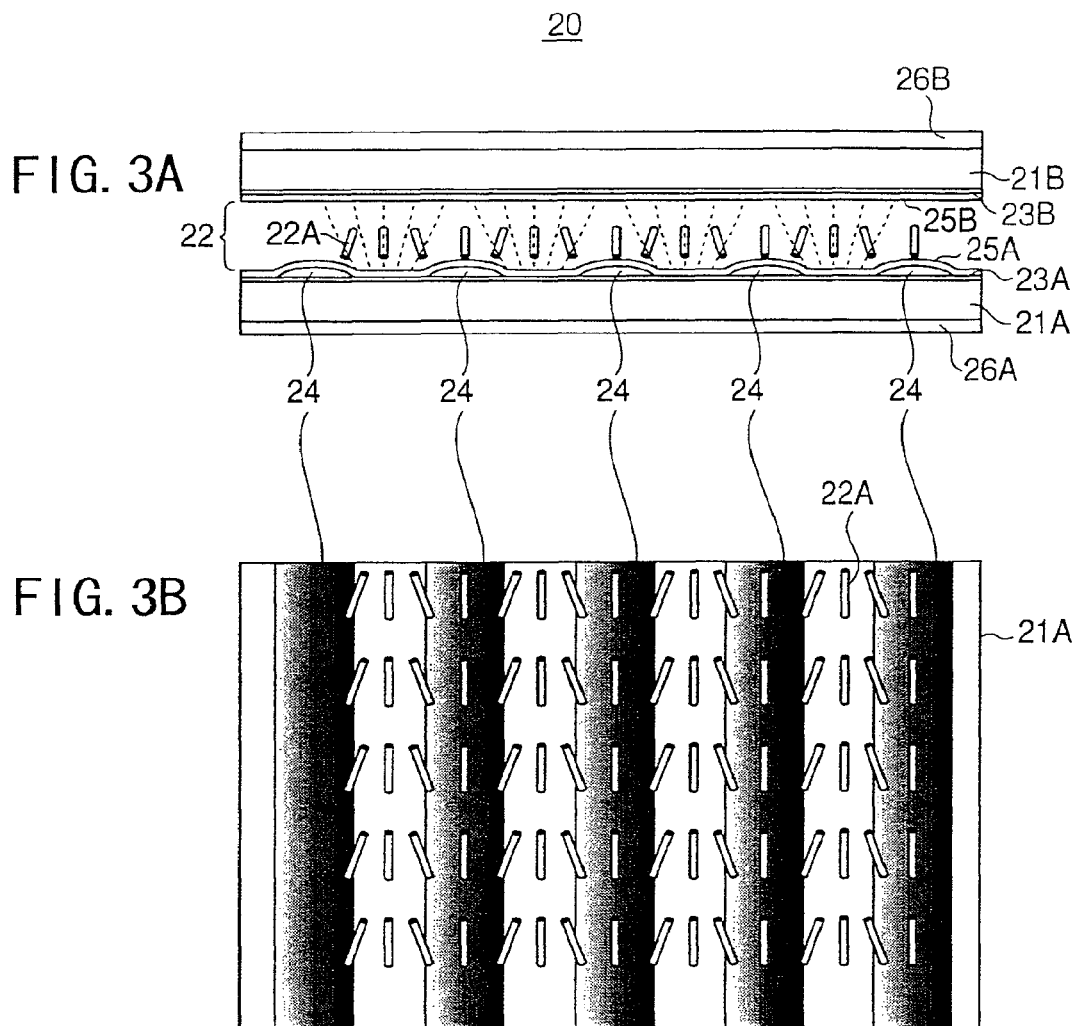


FIG. 2 PRIOR ART





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