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(21) 10-2002-0026698 (65) 10-2003-0088773
(22) 2002 05 15 (43) 2003 11 20

(73) 가 161

5 105

2 206-903

160-1 108-404

110-106

103-1002

126-13302

(74)

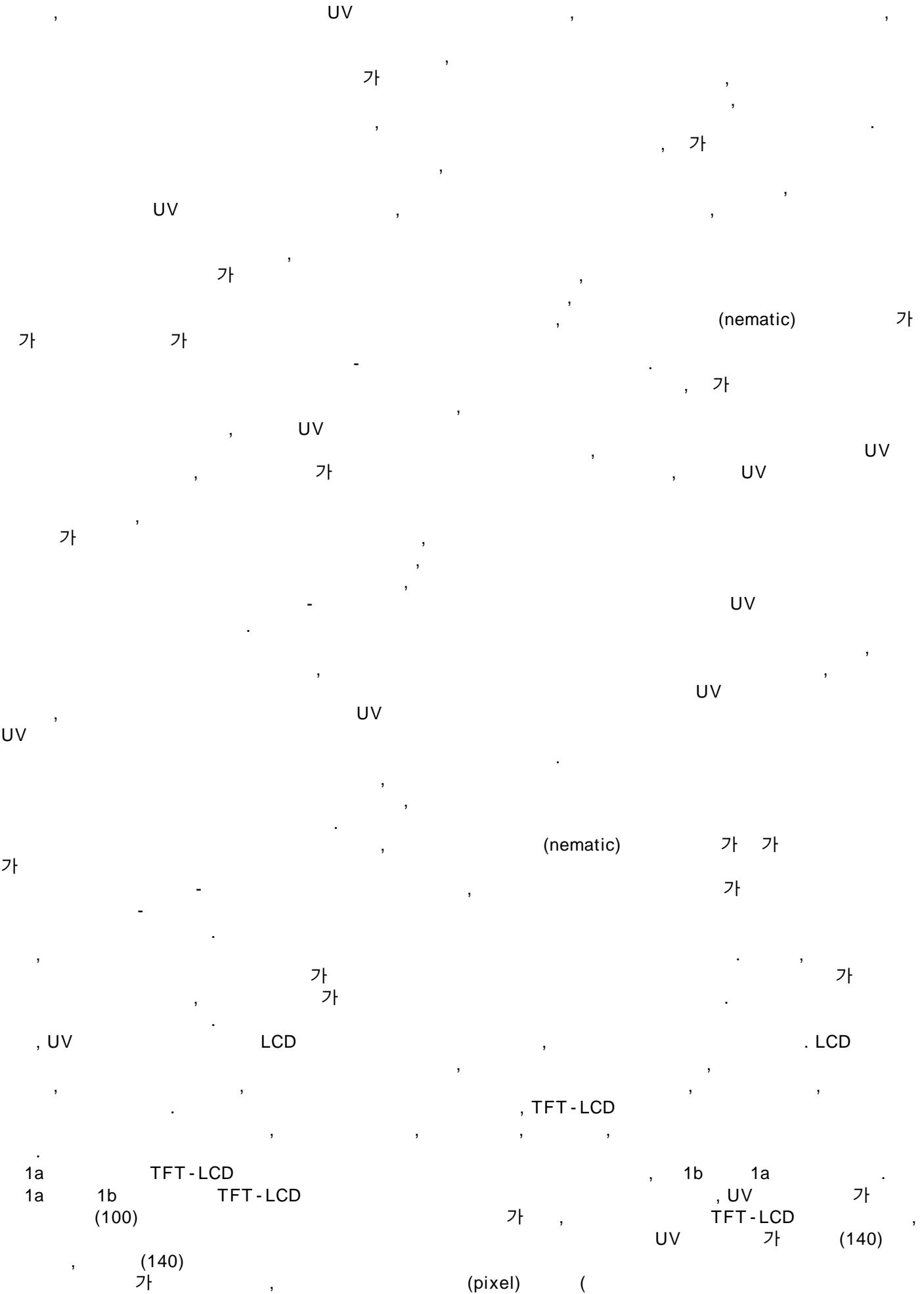
1

(54)

, 가 UV
TFT-LCD . U
V .

1a TFT-LCD(Thin Film Transistor - Liquid Crystal Display)
1b 1a .
2 TFT-LCD
3
4
5
6
7

가	(micromirror array)	6,271,957
,	(Electronic addressing)	,
,	가	,
가	(electrochemical deposition)	,
Chemically polymerized films. A review' <i>Biosensors and Bioelectronics</i> 14: pp. 443-456 (1999)).	DNA (-) (+) DNA 가 (5,605,662).	, DNA
,	DNA 가	,
,	pH	,
cleotide) (Combimatrix) (6,090,302).	,	(oligonu
가	,	,
LCD(liquid crystal display) 6,271,957 ,	(programmable mask) 2001-0002915). LCD	(
,	LCD	, UV UV 가
,	LCD	가
,	LCD	UV 가
00nm UV	LCD LCD 가	330-4
TFT-LCD matrix) (dark-conductivity) 10 ⁻⁶	UV UV (light shield)(black (photo-conductivity) 가	
, DNA	, LCD	,
가	UV	UV 가
,	UV	UV LCD
,	UV	LCD LCD
UV	UV	LCD



가)
 IC(integrated circuit) , (150)
 (152) 가 , (152) FPC(Flexible Printed Circuit)
 (100)
 (100)
 (100a)
 (100a)
 (100a)
 (100a)
 (100a)
 (100b)
 (100b)
 2
 2
 2
 1b
 100')
 (100')
 (170)
 (100a),
 (100b)
 (100')
 (174)
 (170)
 (100b)
 (100b)
 2
 3
 3
 10)
 TFT-LCD 가
 4
 4
 4
 ced Chemical Vapor Deposition)
 (112) ITO(Indium Tin Oxide)
 (108)
 (116)
 (100b)
 UV
 가
 (100b)
 (120b)
 1) (122) 90 °
 4 (a) (c)
 1
 (120a, 120b)
 330 400nm
 10-20um
 UV
 polyvinyl alcohol; PVA
 (tourmaline),
 port)
 (sodium nitrate),
 (rutile) TiO₂
 (Glan-Thompson calcite)
 (116) 330 400nm
 10GT04
 20LP-UV
 (ion beam)
 (calcite), (quartz),
 (New
 DLC(diamond-like-car

The diagram illustrates a DNA sequencing setup. At the top left, a label 'polarizer)' is followed by a vertical line leading down to a horizontal line. From this horizontal line, two vertical lines branch out: one to the left labeled 'UV' and one to the right labeled 'LCD'. Below the 'LCD' label is a small DNA helix icon. To the right of the 'LCD' line, the text '(de)' is written vertically. In the center of the diagram, the word 'DNA' is written above a small DNA helix icon. Below the 'DNA' label, the text '(stepping)' is written vertically. The bottom half of the diagram shows a repeating pattern of labels: 'UV' (twice), 'LCD' (twice), and 'DNA' (twice). Each 'UV' label is positioned above a small DNA helix icon. Each 'LCD' label is positioned below a small DNA helix icon. Each 'DNA' label is positioned between two small DNA helix icons. Vertical lines connect the 'UV' labels to the 'LCD' labels, and the 'LCD' labels to the 'DNA' labels. The entire sequence is enclosed in a large rectangular frame.

(57)

1.

2.

가

,

; UV

,

,

,

;

;

가

(nematic)

가 가

가

3.

가

,

UV

,

가

,

UV

;

;

가

4.

3

,

(nematic)

가 가

가

5.

2

,

330

400nm

UV

가

,

UV

6.

5
z)

(tourmaline)

(calcite), (quart

7.

2

3 ,

UV

8.

2

3 ,

330

400nm

UV

가

,

UV

9.

8

, UV

UV

DLC(diamon

d-like-carbon)

10.

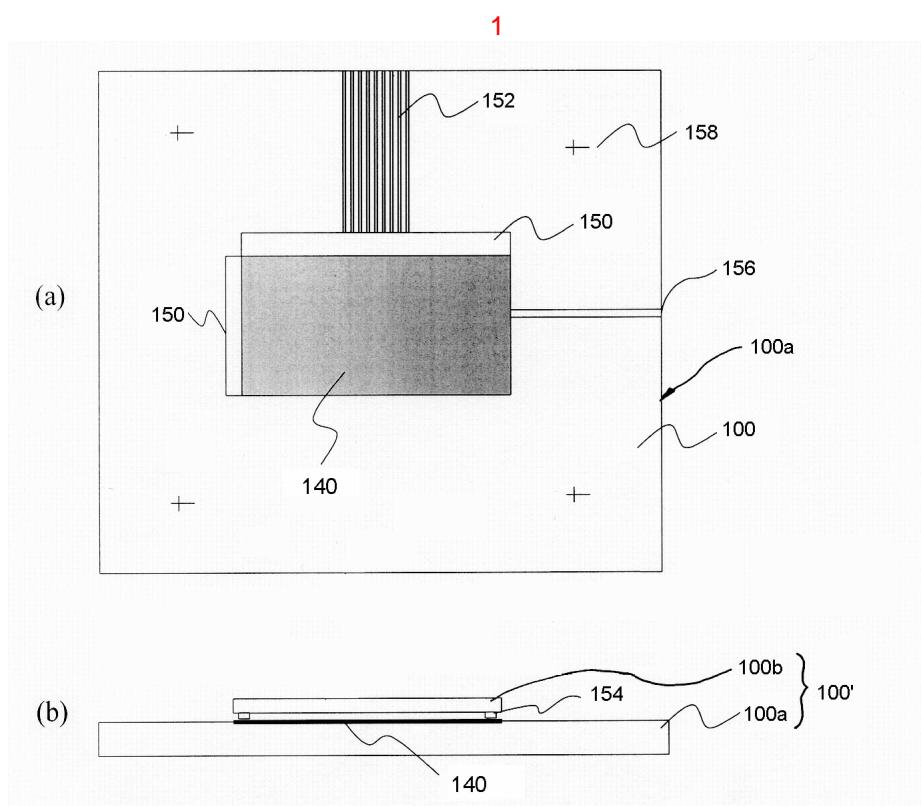
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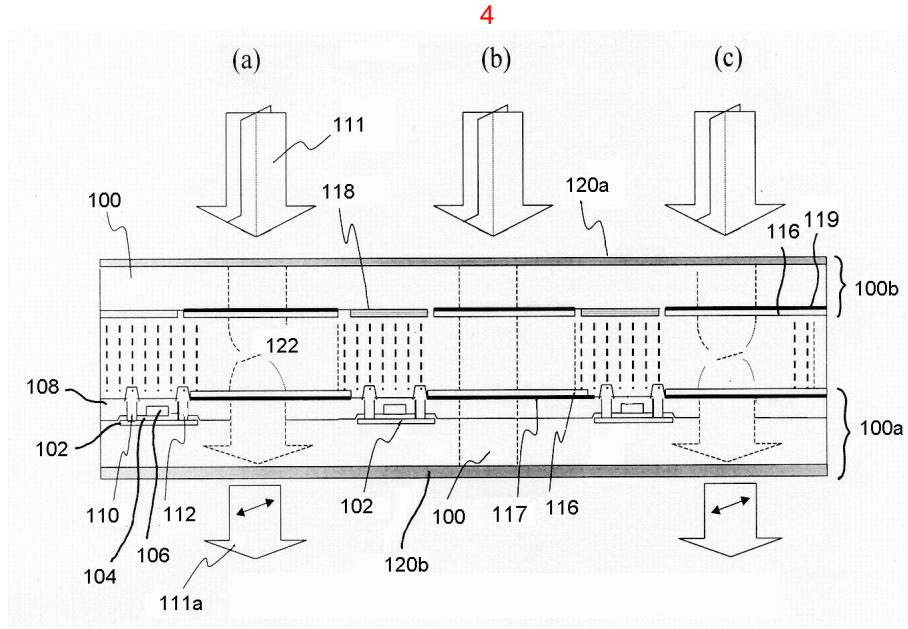
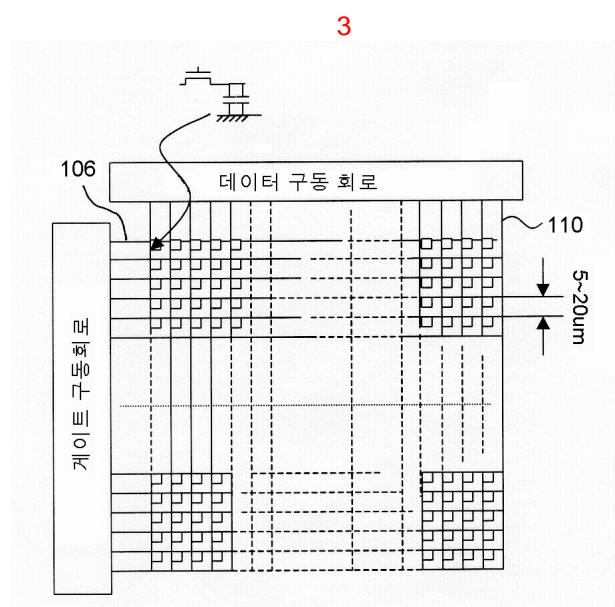
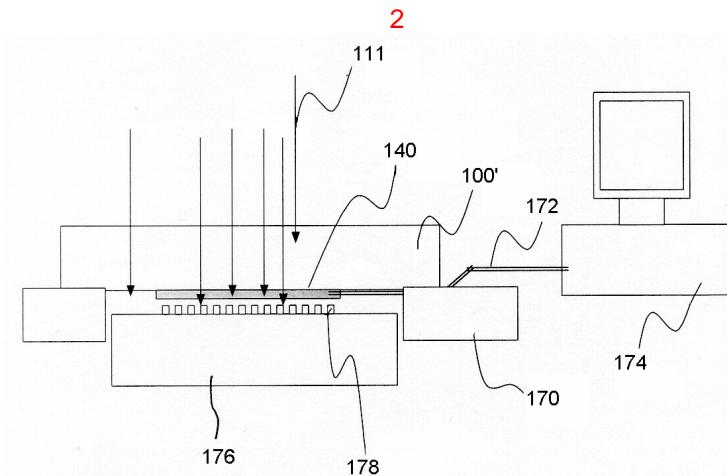
3

;

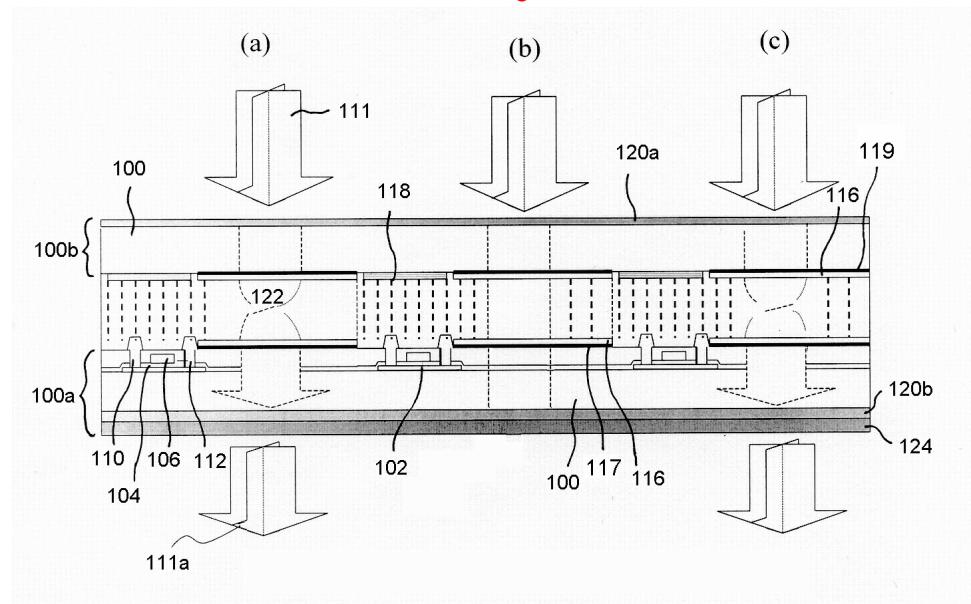
;

; UV ;

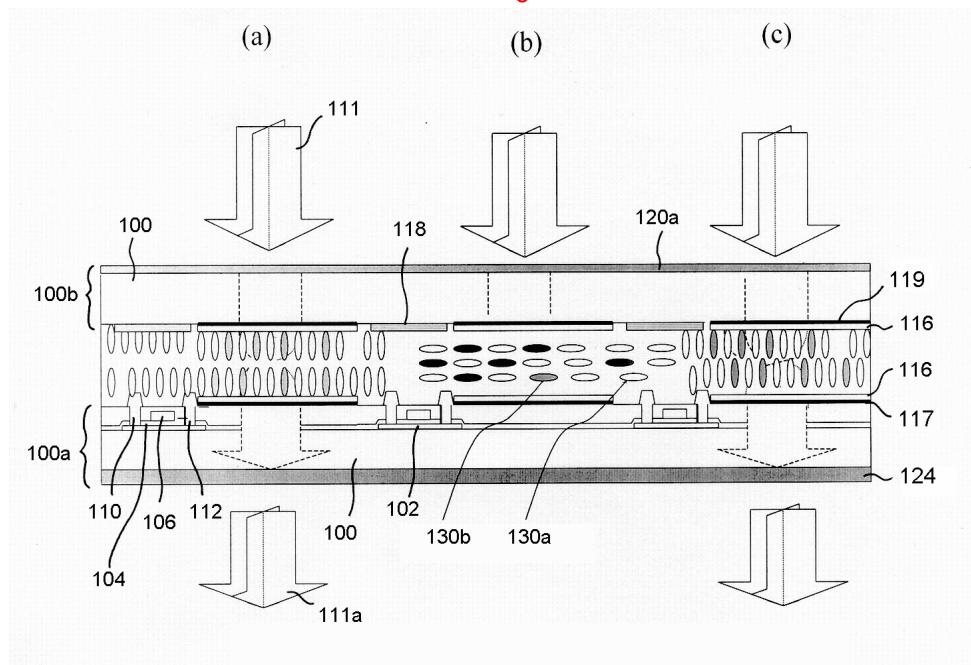




5



6



7

