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(22) 2002 01 14(65)
(43)10-2002-0061524
2002 07 24

(30) JP-P-2001-00006063 2001 01 15 (JP)

(73) 가 가
1 1 1

(72) 1 9 2 가 가

1 9 2 가 가

가 50 가 가

(74)

:

(54)

1 1 1 (51) ,
2 2 2 (52)
가 .

1a

1a 1 ,
1b 1c 1a ,
2a 1a ,
2b 1a ,
3a 3b ,

4a 4b ,
5 1 ,
6 1 ,
7a 2 ,
7b 2 .
1 --- , 2 --- ,
3 --- , 21 --- ,
22 --- , 23 --- ,
24 --- , 25 --- ,
26 --- , 26a --- ,
27 --- , 27a --- ,
27b --- , 28 --- ,
31 --- , 32 --- ,
33 --- , 34 --- ,
51 --- , 52 --- . ,
100 --- , 110 --- ,
111 --- (), 112 --- ,
113 --- , 115 --- ,
115a --- , 115b --- ,
116 --- (), 117 --- ,
120 --- , 121 --- (),
122 --- , 123 --- (),
124 --- , 125 --- (),
130 --- , 150 --- TFT,
200 --- , 300 --- ,
310 --- , 410 --- 1/4 (),
411 --- (1/4 (410)), 420 --- 1/4 (),
421 --- (1/4 (420)), 510 --- (),
511 --- ((510)), 520 --- (),
521 --- ((520)), 600 --- ,
700 --- TCP.

, (pocket bell) (character)
, IT(Information Technology)
가 가
(視認)
(front light)
11-316382 가
ack light) (b

[illegible]

2 가 가 , 1
 2 가
 ()
 ,
 1a 1 , 1b 1c 1a
 1a 2a 1a , 2b
 1a 1 (1) , 가 10cm VGA (51) , 1a (1) (52)
 (51) , 1c 1a (1) (52)
 (1) , (100) , (100) (200), (100)
 (52) (52) (300)
 (100) (110) , (120) , (110, 120) (130)
 (300) (100) (2
 00) 가 () IC TCP(700; Tape Carrier Package)
 TCP(700) (折曲) , TCP(700) 가 (110) (1
 20) (200) (100) , (510, 520) (遅相軸)
 (110) (glass) (111) , (111)
 (112), (112) (114), (112) (114)
 (113), (112) (114) TF
 T(150; Thin Film Transistor) , TFT(150) (115a, 115b)
 (110) (115a, 115b) , Al(Aluminium) (51)
 (115a) , (patterning) (52)
 (115b) , 1
 (115a, 115b) 40 μ m \times 120 μ m (52)
) (115b) 4 μ m 15
 5% ,
 (120) (121) , (122), (123;), (124),
 (125) (124) 51, 52 (51) (52)
 (110) (116) (120) (125) , (130) 가
 70° (twist) , (130) 1/4
 (420) (421) , 45°
 (110) (120) , ()
 , (中空) , n 0.08 / 0 +8 (Nematic)
 (130) (1) 가 (matrix) (115a) (124) (11
 5b) (124) (130) 가 (51) , (11
 (52)
 (51) , ()
 (52)
 (51) (52)
 (1)
 3a 3b (暗) , 4a 4b (明)
 , 3a 4a (51)
 , 3b 4b
 3a 4a , (51) (520), 1/4 (420), (130), (11
 5a) (normally white) 가 (52)

, 3b 4b (51) 가 가
 , (520), 1/4 (420), (130), 1/4 (410), (510)
 , 가 가
 , (115a, 115b) (124) 가
 , (130) (51) (130) 3a
 , (600) (520) (130) 1/4 (42
 0) (115a) (左回) (逆回)
 (右回) (130) 1/4 (420) (520) (51) (520)
 (521) (52) 가
 , (115b) (124) 가 (52)
 , 3b (300) (310) (510)
 , 1/4 (410) (130) (130) (115b 1/
) 4 (420) 2 1/4 (520)
 (520) (521) 가 (130)
 (52) 가 (51) 4a
 , 1/4 (600) (520) 1/4 (420) (130)
 (130) (115a) (130)
 , 1/4 (420) (520) (51) (520) (521)
 가 (52) (51) (52)
 , 가 (52) 4b (300) (310)
 (510) 1/4 (410) (130) (130)
 , 1/4 (420) (520)
 , 가 (52)
 , (300) (52) (51) (52)
 , (300) (52) 가 가 (51)
 , (51) (52) 가 가 (52)
 가 가 (51) 가 가 (52)
 , 가 (300) (52) 가 가 (300)
) 가 (52) (300) (52) (51) (200)
 가 (300)가 (52) (300)
 , 가 (300) (52) 가 (300)
 , (51) (52) 가,
 , (51) (52)
 , (51) (52) (52) (51)
 , (52) (300) (52)
 , (52) (300)
 , (300) (52)
 , (30)

, 1b 1c (115a, 115b) TFT(150) (112)
 가 ,
 가 (520) 1/4 (420) (510) (510, 520) 1
 1/4 (410) (410, 420) (510) (511) 1/4 (410) (411) 80°
 /4 (520) (521) 1/4 (420) (411) 80°
 520) (521) (510) (511)
 (1) (normally black)
 , 1/4 (410) (510) (110)
 (51)
 , 1/4 (410, 420) 1/4 1/2
 , 1/4 (410, 420)
 가 (1)
 5 1 (1)
 5 (2) , PDA(personal data/digital assistants) PDA(2) (1)
 (21), (300) ON/OFF (22),
 (23), (24) (25)
 PDA(2) (26) (27) (26) (300) (200)
 1) (52) (27) (51) (1) 가
 (52) (51)
 5 (52) (26) (51) (27) ,
 (改) (26a) (27a) (27b) 가
 (28) 5 PDA(2) (27) 가 (27)
 PDA(2) (300)
 가 (22) (22) , PDA(2) (300)
 가 (21) OFF (22) (300)가 (300)
 (26) (300) / 가 ,
 (26) 가 가 (26)
 가 가 (26) (27)
 가 가 가 가
 51) (52) PDA(2) (300)가 (300)
 300) , PDA(2) (22) (300)
 (52)
 가 (22) (300) (26)
 5 PDA(2) 가 가
 (26) 가
 6 1 (3) (3) (3)
 6 (3) 가 (31), (32), (33),
 (3) (1) (34)

(34) (3) (1) , (3) (34) (, , e-mail)
.
. , 가 .
.
(3) , (300)
(3) .
.
, (34) (300) , .
가 가
, 가 가 (34) , 가
(3) 가 ,
.
가 ,
, (34) ,
(300) , 가
, 가 (300)
.
가 (300) .
가 가 ,
(300) / ,
.
가
7a 2 2 7b
2 , 2
, 2
7a 1 1
(17) ITO (115) (112) (延在) , (115)
7b (300) (130) (117)
, 1 ,

가

(57)

1.

[illegible]

1 1 2 2

1 , 1 , 2 2

2.

1 , 2 .

3.

1 , 1 , 2

1 가 .

4.

3 , 1 2 , 1

2 .

5.

1 , 1 2 , 1

1 .

6.

1 , 1 2

7.

1 , 1 2 .

8.

7 , 1 2 2

9.

1 2 , 1 1 2 1 , 2 ,

1 2 1 1 2 ,

2 1 1 2 ,

2 1 1 2 2 가

10.

9 , 1 2 , 1

2 .

11.

9 , 1 2

12.

9 , 1 2 .

13.

12 , 1 2 2

14.

1 2 , 1 1 ,

1 2 1 , 2

1 2 1 2

2 , 1 1 ,

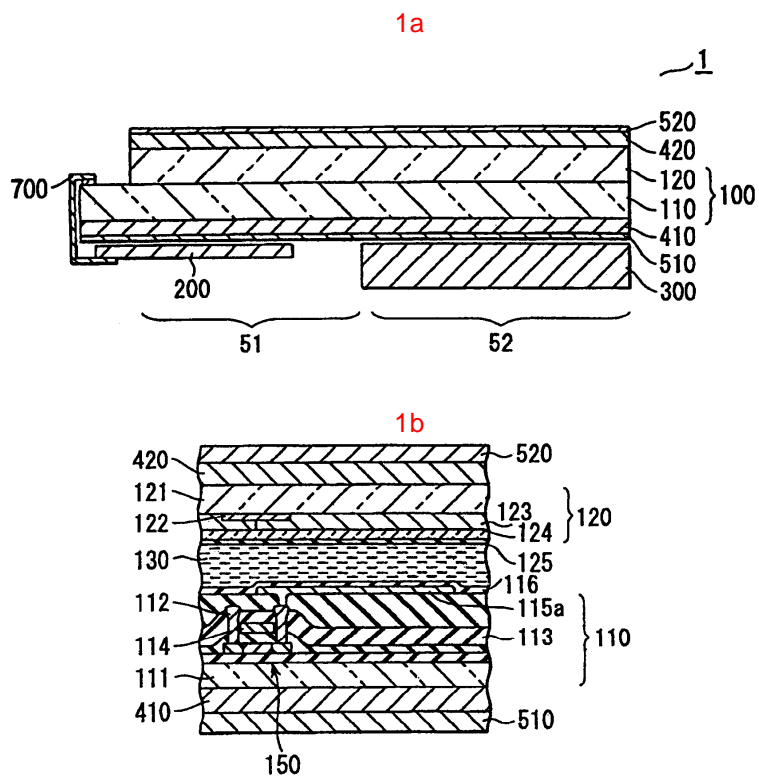
2 1 1 2 ,

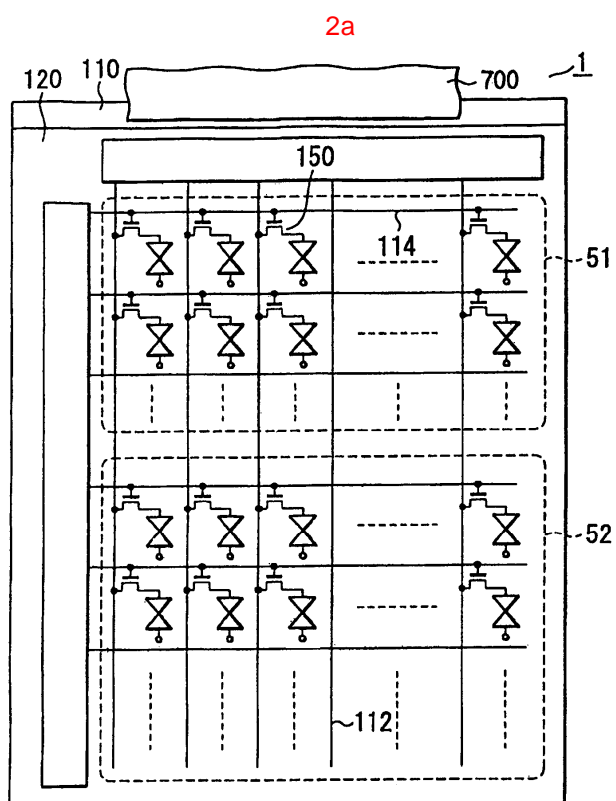
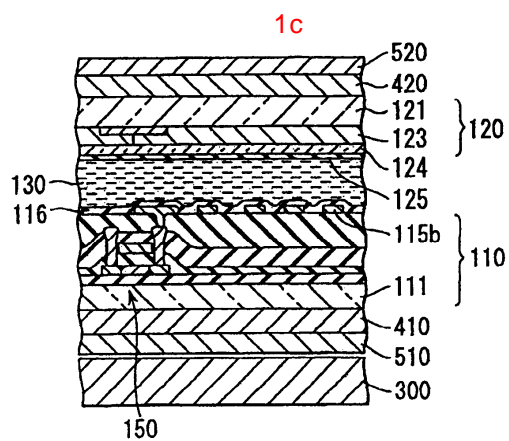
1 1 2 2

1 , 2

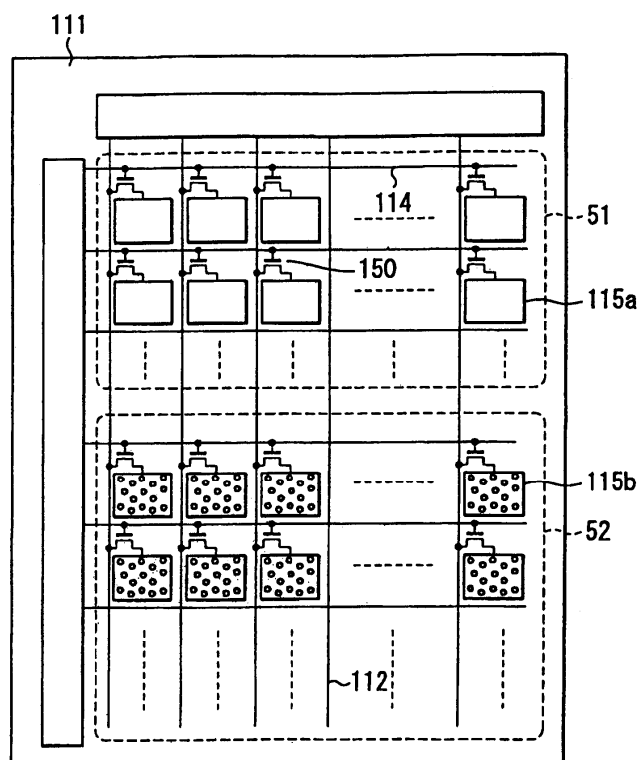
1 2

15. 14, 2 1 2, 1
16. 14, 1 2
17. 14, 1 2
18. 17, 1 2 2
19. 1 2, 1 1, 2
1 2 1 2
2 2, 1 1 2, 2
2 1 1 2 2
20. 19, 1 2

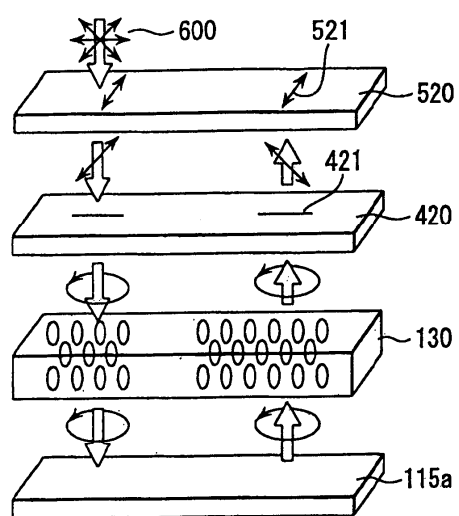


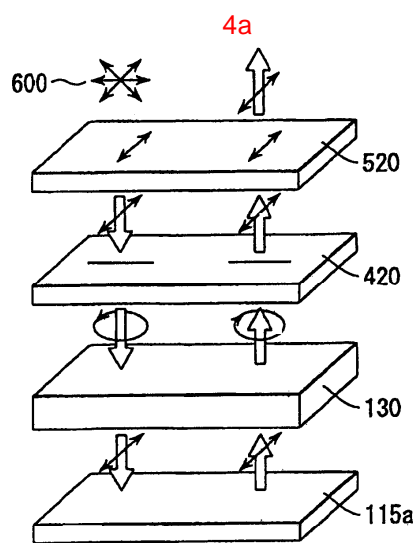
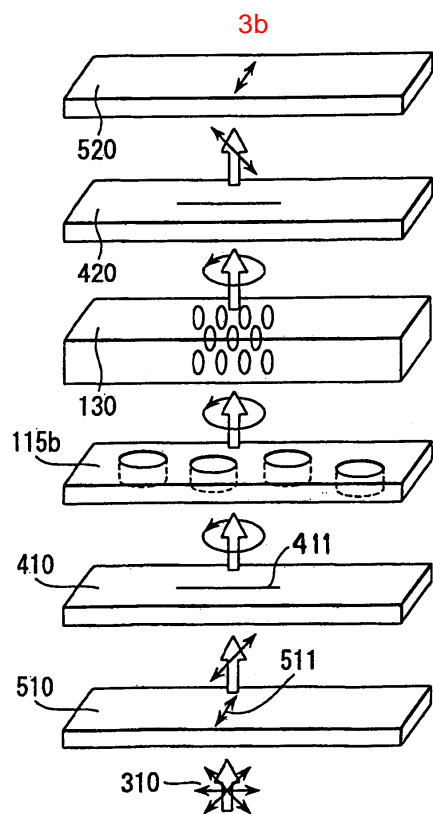


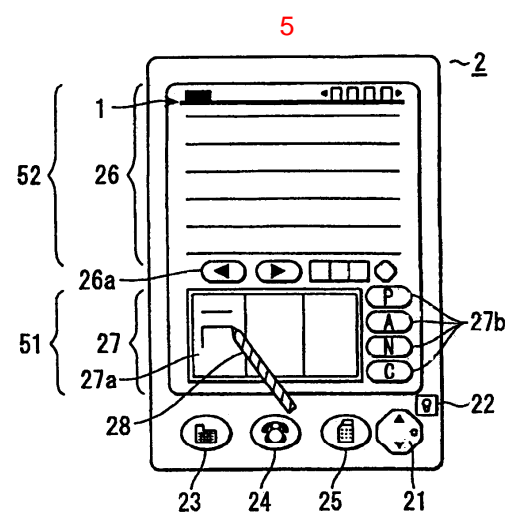
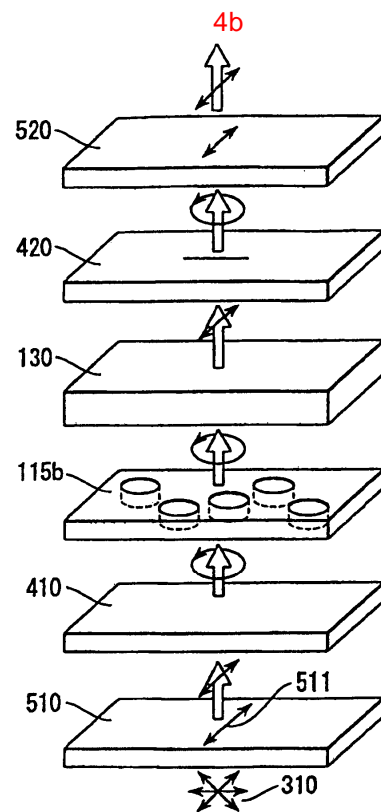
2b

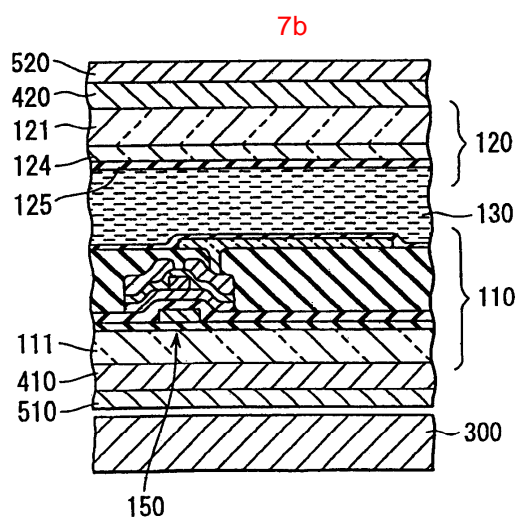
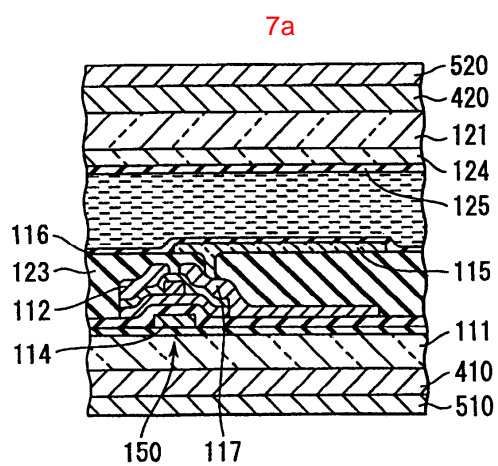
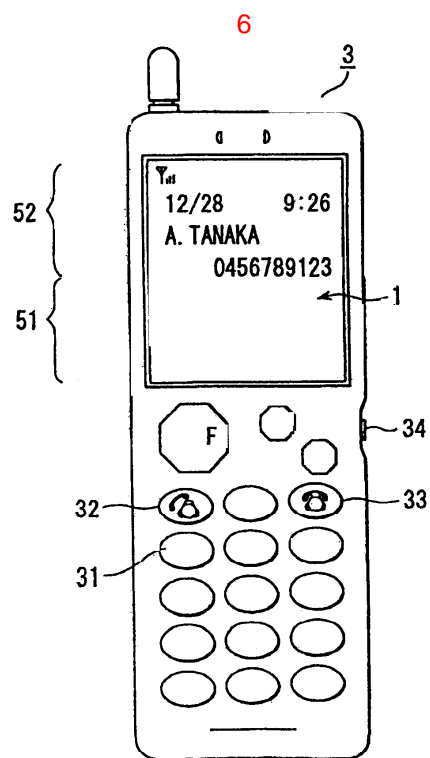


3a









专利名称(译)	液晶显示器		
公开(公告)号	KR100453088B1	公开(公告)日	2004-10-15
申请号	KR1020020002044	申请日	2002-01-14
[标]申请(专利权)人(译)	株式会社东芝		
申请(专利权)人(译)	Sikki东芝股份有限公司		
当前申请(专利权)人(译)	Sikki东芝股份有限公司		
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发明人	세이키마사히로 와타나베료이치 도야마아키마사		
IPC分类号	G02F1/1335 G02F1/13363		
CPC分类号	G02F1/133553 G02F2001/133638 G02F1/133555		
代理人(译)	KIM , YOON BAE		
优先权	2001006063 2001-01-15 JP		
其他公开文献	KR1020020061524A		
外部链接	Espacenet		

摘要(译)

提供一种液晶显示器，其中对应于相应的第二显示区域 (52) 的多个第一像素电极可以指示第二部分中的图像，其中多个第二像素电极与对应于第一显示区域的第一显示区域 (51) 区域表示光学反射模式的图像安装有光传输模式。

