

(19) (KR)
 (12) (A)

(51) 。 Int. Cl. ⁷
 G02F 1/1335 (11) 2002 - 0047534
 (43) 2002 06 22

(21) 10 - 2000 - 0076005
 (22) 2000 12 13

(71) , 20

(72) 1 9 - 12403

(74)

:

(54)

ial) 1 2 , R, G, B

(Field Sequent

3a

1 (Backlight Unit)

2

3a 1

3b 1

4a 4b

5 2

가

가 (Light guide plate) 가 (Wedge type) , 가 ,

1 (Backlight Unit)

1 , (11) (12) 가 . (12) 가
가 (14) 가 . (13) (12)
가 (14) . (14) 가
(15) 가 . LCD 가

EL(Electroluminescent),
(Light Emitting Diodes. LED), (Cold Cathode Fluorescence Lamp. CCFL)

가 5V DC , , ,
EL,
가 (LED)

2 (Lay out)

2 , R, G, B (Light Emitting Diode) 가

1 R 2 R 3 R 1 G 2 G 3 G 1 B 2 B 3
B .

가 가

R, G, B 가

가

PCB 가

,

, R, G, B 3
가

, R, G, B

, R, G, B
가 .

chip), , (() 1 () 가 . , R, G, B 3
3 in 1 type lamp (

100 ° , 가 10mm
5mm .

2000 (nit)

3a 1

3a , R, G, B
가

1

(On - Off)

(Field Sequential)

1 R 2 R 3 R 1 G 2 G 3 G 1 B 2 B 3
B, R, G, B
가 R, G, B 3
가

1

3b

3b , R, G, B
(31)
(35)

(32) 가

(31R, 31G, 31B)
(36)

(31)

4a, 4b

4a

가

가 가

4b

, 3 , 1 R, G, B 3
PCB

5 2

3 , R, G, B

1

(On - Off)

1 R 2 R 3 R 1 G 2 G 3 G 1 B 2 B 3
B

2 1 , 1 , 1 , R, G, B
 B 1 , 1 , 1 , R, G,
 , , , ,
 , , , ,

가

, , , ,
 , 1 , , ,
 , , PCB , ,
 , , , ,

(57)

1.

, , , ,
 R, G, B 1 , , ,

2.

1 , , 100 °

3.

1 , , 10mm

4.

1 , , 5mm

5.

, , , ,
 R, G, B 1 , , ,

6.

5 , , 100 °

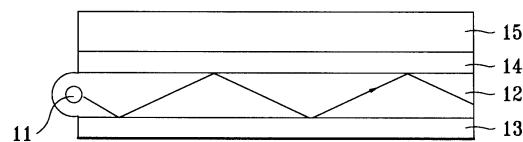
7.

5 , 10mm

8.

5 , 5mm

1



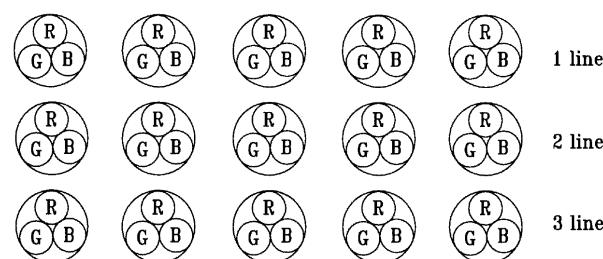
2

(R) (G) (B) (R) (G) (B) (R) 1 line

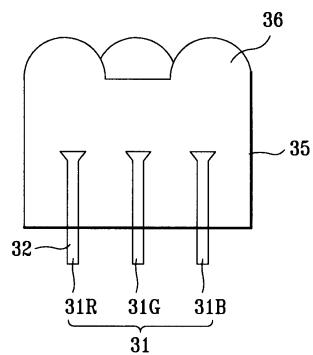
(G) (B) (R) (G) (B) (R) (G) 2 line

(B) (R) (G) (B) (R) (G) (B) 3 line

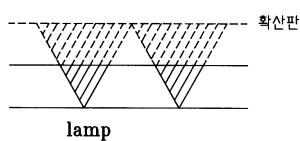
3a



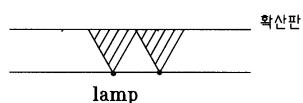
3b



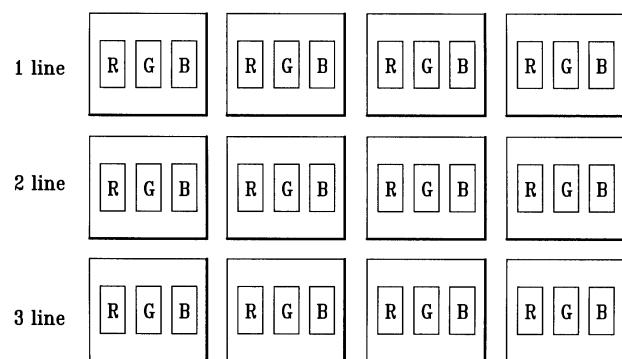
4a



4b



5



专利名称(译)	一种液晶显示器的背光单元		
公开(公告)号	KR1020020047534A	公开(公告)日	2002-06-22
申请号	KR1020000076005	申请日	2000-12-13
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	LIM MOOJONG 임무종		
发明人	임무종		
IPC分类号	G02F1/13357 G02F1/1335 F21V8/00 G02B5/02		
CPC分类号	G02F1/133621 G02F2001/133622 G02B6/0051 Y10S362/80 G02B6/0068 G02B5/02		
代理人(译)	金勇 新昌		
其他公开文献	KR100788382B1		
外部链接	Espacenet		

摘要(译)

适用于背光单元为发光二极管的场序模式液晶显示器的直下式背光单元，用于根据本发明的液晶显示器的背光灯作为液体的背光单元实现高亮度并使本发明的背光单元的厚度更薄的晶体显示装置包括灯的布置，其中实现R，G和B的颜色的每个发光二极管芯片安装在一个灯内或芯片或芯片。发光二极管和背光。

