

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
H05B 33/00

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2002 - 0056677
2002 07 10

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10 - 2000 - 0086079

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2000 12 29

(71)

167 - 1

(72)

441 - 1

110 1301

6

1

121 305

481 - 1

101 - 702

248 40 3

6 - 512

(74)

:

(54)

EL

,

EL

가

ITO

,

(Pretreatment)

,

ITO

(+)

,

3

,

(-)

ITO

가

.

가

,

가

.

4e

1a, 1b, 1c ,
 2 EL ,
 3a, 3b EL ,
 4a 4e EL ,
 5 EL .

* *

2: , 4: ,
 6: 1 , 8: 2 ,
 10: , 12: ,
 14: , 16: ITO ,
 18: , 20: ITO .

EL EL , EL .
 EL EL ITO
 (anode), (Organic Layer: HTL/ETL/ETL), (cathode) EL ITO
 EL ITO 가 가 ,
 (Dual Folder) 가

(LCD: Liquid Crystal Display)
 1a 1b 1a 가
 (2) 1 (6) , (4) 2 (8)

1c 가 (8) (2) (10)

, 1a, 1b

2

(Slim)

가

가

EL

ITO

(Pretreatment)

ITO

(+)

(-)

ITO

3

가

EL

EL

가

EL

2

EL

(2)

(2)

EL

EL

가

ITO

3a, 3b

EL

3a

(14)

(18)

ITO

(20)

EL

(12)

(14)

3b

(14)

ITO

(16)

(18)

ITO

(20)

가 가

(1

8)

ITO

(20)

(18)

가

ITO

(20)

4a 4e

EL

(14)

ITO

(16)

(P

retreatment)

, ITO (16) (Plasma) ITO (16) 가
ITO (16) (18) ITO (16) .

ITO (16) 4.8eV 5.6eV ITO
가 . (18)
가 .

ITO (16) (18) , (18) ITO ,
, 3 . (18) (

20) .

4a 4e EL 가
가

5 EL .

, 4e EL 가
, 4a 4e , EL
. EL

EL

(14) ITO (16) . (Pretreatment)

, ITO (16) (Plasma) ITO (16) 가
ITO (16) (18) ITO (16) ITO

ITO (16) (18) , ITO (20)
, (2)

, EL 가
가

, EL 가 가
가 .

(57)

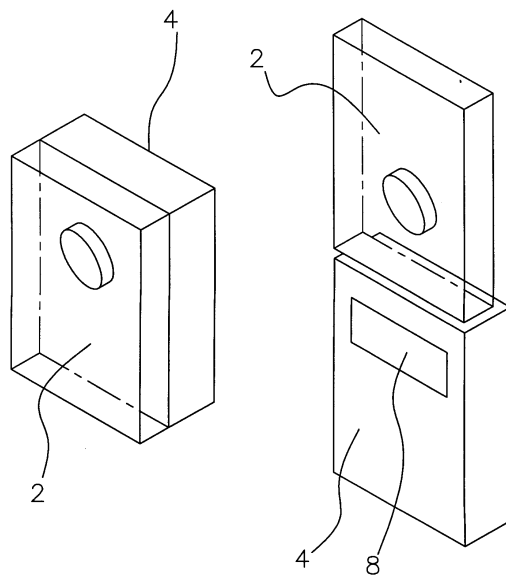
1.

ITO , , (Pretreatment) , ITO (+) (-) ITO , , 3 가 EL (

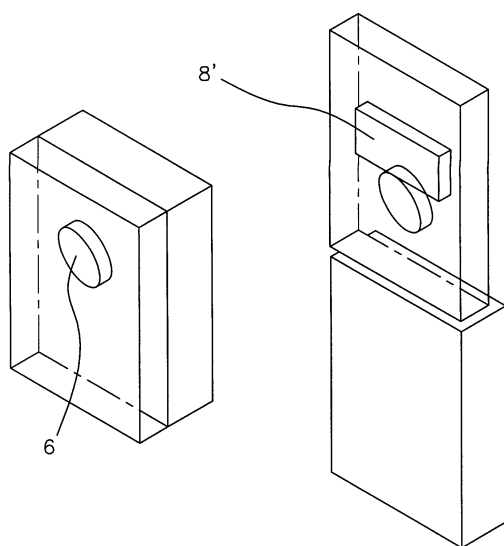
2.

1 , EL 가 E L .

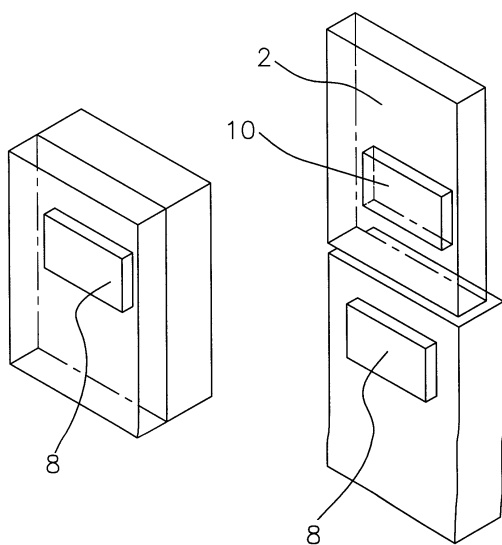
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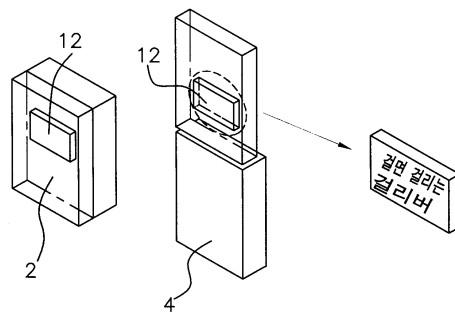
1b



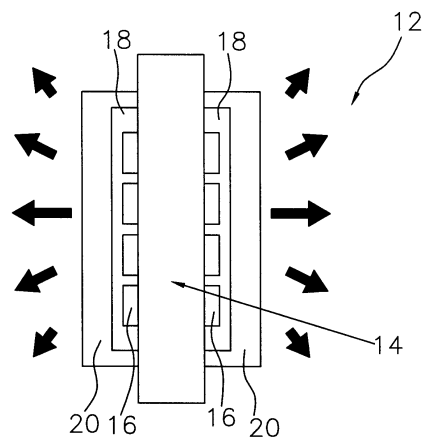
1c



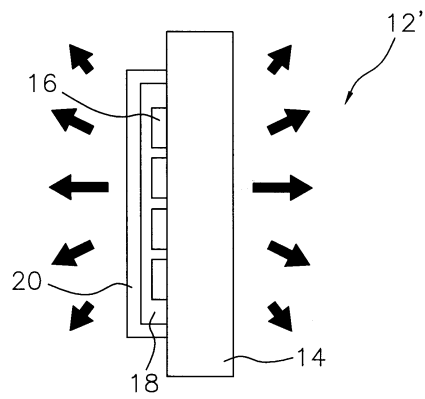
2



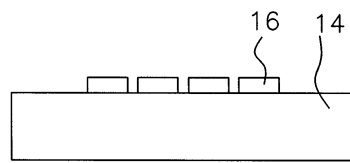
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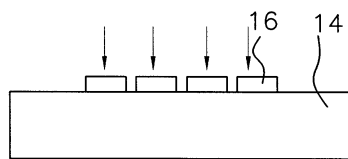
3b



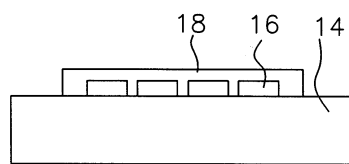
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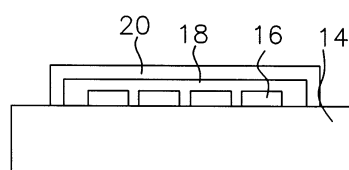
4b



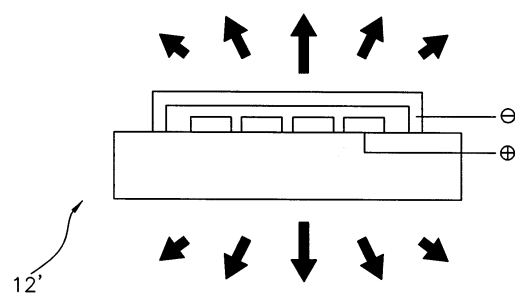
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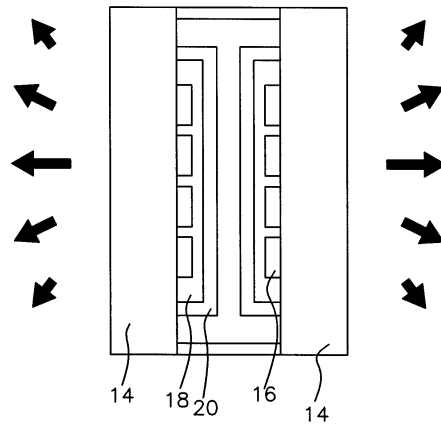
4d



4e



5



专利名称(译)	双向有机EL显示屏		
公开(公告)号	KR1020020056677A	公开(公告)日	2002-07-10
申请号	KR1020000086079	申请日	2000-12-29
申请(专利权)人(译)	现代电梯有限公司.		
当前申请(专利权)人(译)	现代电梯有限公司.		
[标]发明人	LEE JOOHYEON 이주현 KIM WOORYOUNG 김우영 JU SUNGHOO 주성후 KIM SUNWOONG 김선웅		
发明人	이주현 김우영 주성후 김선웅		
IPC分类号	H05B33/00		
CPC分类号	H01L27/3251 H01L51/5234 H01L2251/5323		
其他公开文献	KR100704048B1		
外部链接	Espacenet		

摘要(译)

用途：提供双向有机EL显示屏，通过双向发光和显示，降低手持电话的制造成本和厚度。

