

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

(51) 。 Int. Cl. <sup>7</sup>  
H01L 33/00

(11)  
(43)

2002 - 0020197  
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(21) 10 - 2001 - 0054310  
(22) 2001 09 05

(30) 09/656,251 2000 09 06 (US)

(71) .  
343

(72) 14450 8  
14609 178  
14625 36  
14625 176

(74)

:

(54)

ell) , OLED (power generating display device) (photoelectric c  
(light transmissive, light emitting OLED display element)

1 ,  
 2 ,  
 3 ,  
 4 , , , ,  
 가 .

10 : 12: OLED

14 : 16 :

18 : 20 :

21 : 22 :

24 : 40 :

42, 48, 50, 56 : 44 :

46 : 52 : n

54 : p 58 :

60 : 62 :

(ambient light) (electricity)

(imagery) (graphics)  
 (liquid crystal display) (cathode ray tube), (plasma display)  
 g diode; OLED)가 (organic light emittin  
 (steel) , OLED 가 가 .

OLED 가  
 ITO(indium tin oxide) 가  
 . 1998 7  
 7 , (Hung) 5,776,623 .

(organic electro - luminescent; OEL)  
 , 1999 7 27 , (Wei) 5,929,845

(photo - electrically)

OLED

(solar cell) —( (bulk) )  
 — 가 (1981 7 28  
 (Kuwano) 4,281,208 ).  
 (power supply)  
 (battery - powered)  
 가 , 1994 10 11 , (Adelson)  
 5,354,979 (power source)  
 (photoelectric transducer) 가 . 1991 8 13 , (Nishi)  
 5,039,928 (ac  
 cumulator) 가  
 (self - powering) (1988 1 12 , (Conlin)  
 4,718,185 1997 4 8 , (Glynn) 5,618,100 ). 1999 9 28 ,  
 (Bruce) 5,957,564  
 가 ,

(personal digital assistants),  
 ( 가 , )  
 가 ,  
 , 1999 11 23 ,  
 (Ebihara) 5,990,995  
 가 , 가  
 가 가 가 ,  
 (photoelectric cell) , OLED (light  
 transmissive, light emitting OLED display element)  
 (power generating display device)

가

OLED

1 (14) (10) (14) OLED (12) (12)  
 (14) (20)  
 (16) (14) (12) (12) (14)  
 (18) (16) (12) (12) (18)  
 (16) (18)

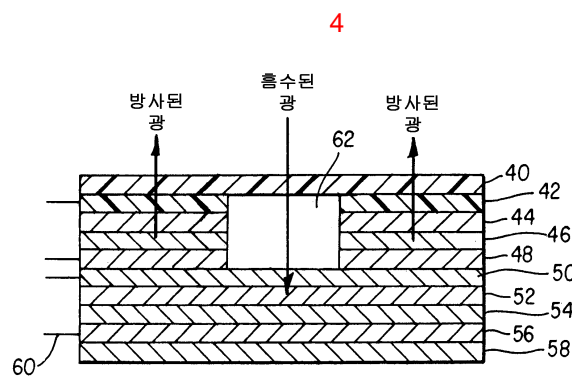
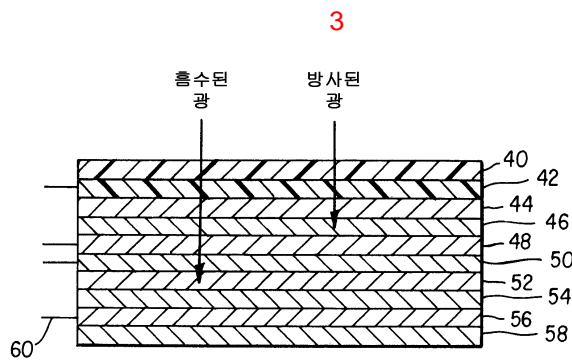
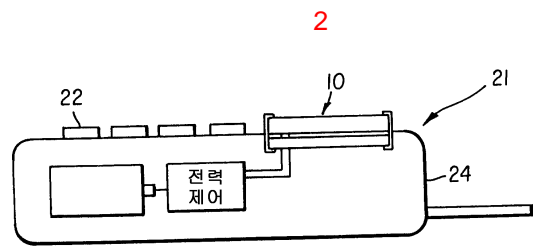
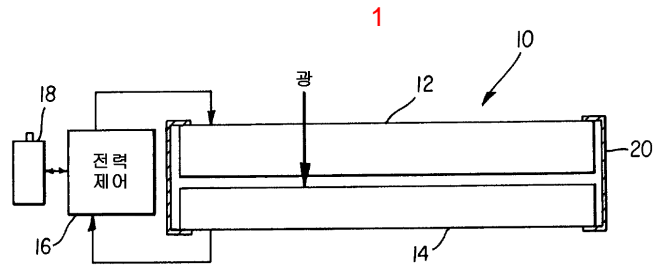
1 (10) 2 (10) (14) (20)  
 2 (21) (22), (24) (12)  
 가

(a patterned hole transport layer) (44), (40) (a patterned emissive layer) (46)  
 (42) 2 (48)  
 (52) 3 (50) 가  
 2 (54)  
 4 (56) (back plate) (58) (58)  
 (enamel coated steel plate), n p (52, 54)  
 가

(58) 가  
 (48) 3 (50) 가 2

가  
 (52 54) (46) (42, 48) (40)  
 가  
 (60) 1 (16)  
 4 (backing)  
 (62)





专利名称(译)	发电显示装置		
公开(公告)号	<a href="#">KR1020020020197A</a>	公开(公告)日	2002-03-14
申请号	KR1020010054310	申请日	2001-09-05
[标]申请(专利权)人(译)	伊斯曼柯达公司		
申请(专利权)人(译)	柯达公司针		
当前申请(专利权)人(译)	柯达公司针		
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发明人	윌리엄스데이빗제이 버티스존 코크로널드에스 탕칭더블유		
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代理人(译)	KIM, CHANG SE KIM, WON JOON		
优先权	09/656251 2000-09-06 US		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

发电显示装置包括产生电能的光电电池，透光辐射OLED显示装置（透光，发光OLED显示元件），以及具有位于光电电池上的透光基板的显示面板。

