

(19)
(12)

(KR)
(Y1)

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G02F 1/133

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(11)
(24)

2001 10 10
20 - 0234683
2001 06 05

(21) 20 - 2001 - 0008400
(22) 2001 03 27
(62) 2001 - 0015850
: 2001 03 27

2001 03 27

(73) 91 - 1 10

(72) 1 - 307

(74)
:
가 :

(54) 가 가

가 PCB

가 가 , 가 PCB
, 가 ,
1 A/D , ,
가 , , 가 가
가 가 , , , , 가 가
가 가 . , , , , 가 가

11

, , , ,

1

2

3

4 3

5

6

7 (a)(b) 가

(a) (b)

8

9

10 (a)(b) 가 가 PCB (a)
(b)

11

12 11

13

14 PCB

15 PCB

* *

100: (Touch Screen) 101: (LCD.CRT)

102:Y(+, -) 103:X(+, -)

104: PCB() 105:

106: PCB 107:

108: 109:

110:A/D 111:

112: 113:

114: 115:

116: 117:

120,121: PCB

가 PCB

가 (Input Device) (Touch Screen) (PDA) ()

가

가

(Resistive)

가

1

(20) 가

(30) (10) (40) (30) 75~200 μ m (20) (50) (20) PET

(20) (30) (Connector Tail) (30)

(60)

100~300 μ m (20) 가

(10) (11) (10) , ,

(10) , ,

가

3 4 ,

3 (80) (10) (80)

가 (81) (83)가 (83)

(82) (81) (81)(82)

(81) 1 (84a) (81)

(85) 2 (84b) , 1,2 (84a)(84b) FPC(8

6:Flexible Printed Cable)가 , FPC(86) IC(87)가 (82) (70)

(70) (10) (30)

가 (20) (30) (20)

(10)

(10) (30)

(20) X,Y (

)

(30) () 4 (10)

(31) X,Y (32a)(32b)

(31) (33) X,Y (32a)(32b) (34) (34)

(32b) (33) (33) X,Y (32a)

(31) (10)

X,Y (32a)(32b)

(10) (34)

(34) (35) (34)

(34)

() (LCD) 1:1 2 3 (11)

(10) 가 () (FPD)가

(CRT) LCD가 CRT

가

(35)

3 (10)

가 , .

5 (10) . () (3
6)가 .

6 5

(37) (38) PC
(39) (38) 가
가 .

(38) (10)
(41) 5 (10) (36)

(10) 5 6
(10) 7 (a) (42) 7 (b)
(43) , 가 8 .

8 (10) (38) (42)

(10) (38) (42)
가 9

9 LCD (12) ,(LCD EL (10) (11)
(44)가 .)

10 (a)(b) (44) (45)

(44) 10 (a) , (51)
(52), (51) (11)
R,G,B (53)(54)
(55), (56)

(45) 10 (b) , (51) (52)
, (10) (52) (57) (59)
(10) , 가 (58) A/D (58)
(59) (59) A/D (58)
(59) X,Y (61) (51) (51)

, 가 가

가 가 ,

(107) (105)가 PCB (108) , 1

(107) PCB (108) (108) , 1

(109) A/D (110), (111)

(112)

11 (100) (101)가 () . (10

0) X,Y (102)(103) 가 PCB(104) (105) PCB(104) PCB(

104) FPC(Flexible Printed Cable) PCB

(plane)

(105) PCB(104) PCB(106)

PCB(104) PCB(106)

12 (105) 가 (

107)

13 (105) 가

PCB(106) 11

(105)가 PCB(106)

14 11 13 가 PCB (120) .

(109) A/D (110) (100) (108)가 (111) (112)

(108) (111)

15 11 13 가 PCB (121) .

(109) (100) (108)가 (100) (108)

(108) , 15 A/D (110) (108)

04)(106) (107) (105) PCB(106) PCB(104) PCB(1

PCB (101) PCB가 2 PCB

(105) PCB

PCB (113) (108) PCB 1 (108) (109)

(108)

(111) (108) 가 (112)

PCB 가

가

(108) X,Y (100) (114) (108)
 (108)가 A/D (110) A/D (110)

(108) (109)가 (108)

가 (108) X,Y (102)(103) 가
 (108)

A/D (110) (108) , A/D (110) X - Y
 (112) X - Y

14 PCB (120) , (107) (105) (111)

(107) 가 (115) (111)
 R,G,B (113) (111) (101)
 (116) (117)
 (118)

(105) (111) 가
 (100) (109) (108) (100)
 가 AD (110) (A/D
), (108) (108)
 AD (110) (108) X,Y (102)(103) X,Y
 (112) (111) (111)

가

가

가 ,

가

가

가

가

가

가

가

가 가

가

가 ,

가 .

(57)

1.

가 가 ,

가 가 ,

(1)

가 PCB ,

(2)

가 ,

(3)

1

A/D

가 가 .

2.

1 ,

PCB

가 가 .

3.

1 ,

PCB

PCB

가 가

4.

1 ,

가

가

가

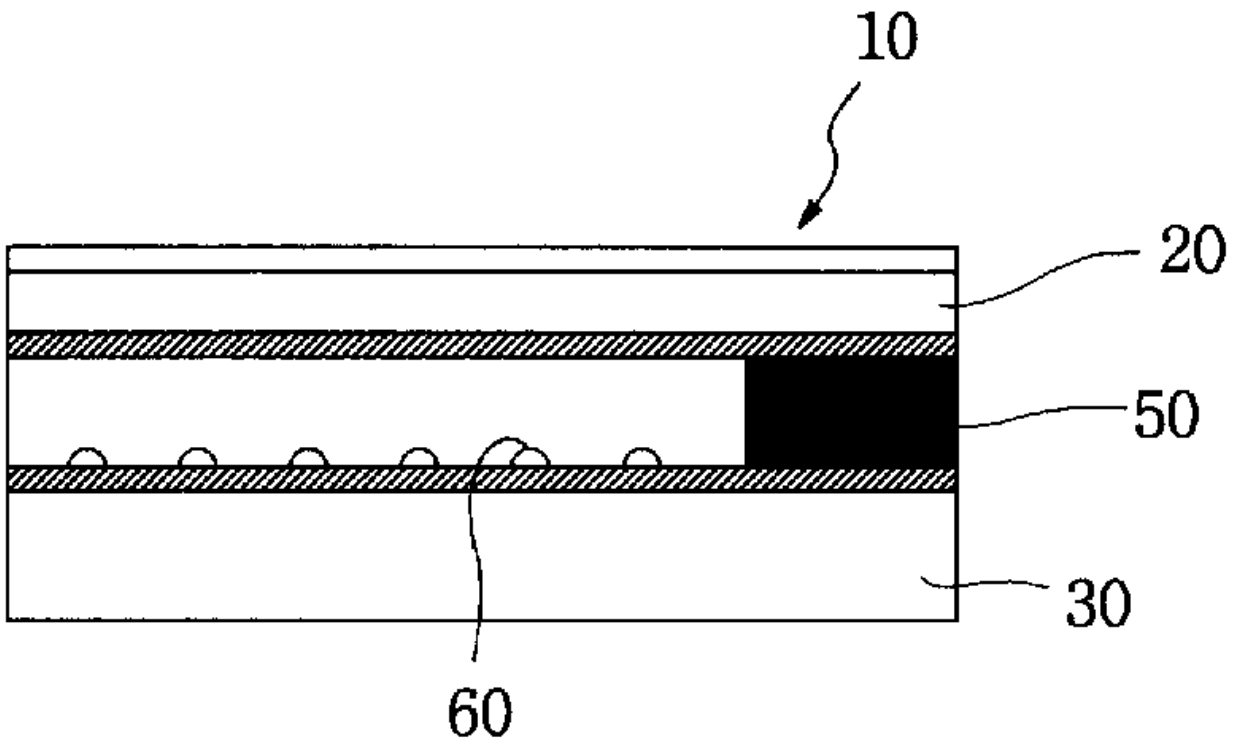
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1 ,

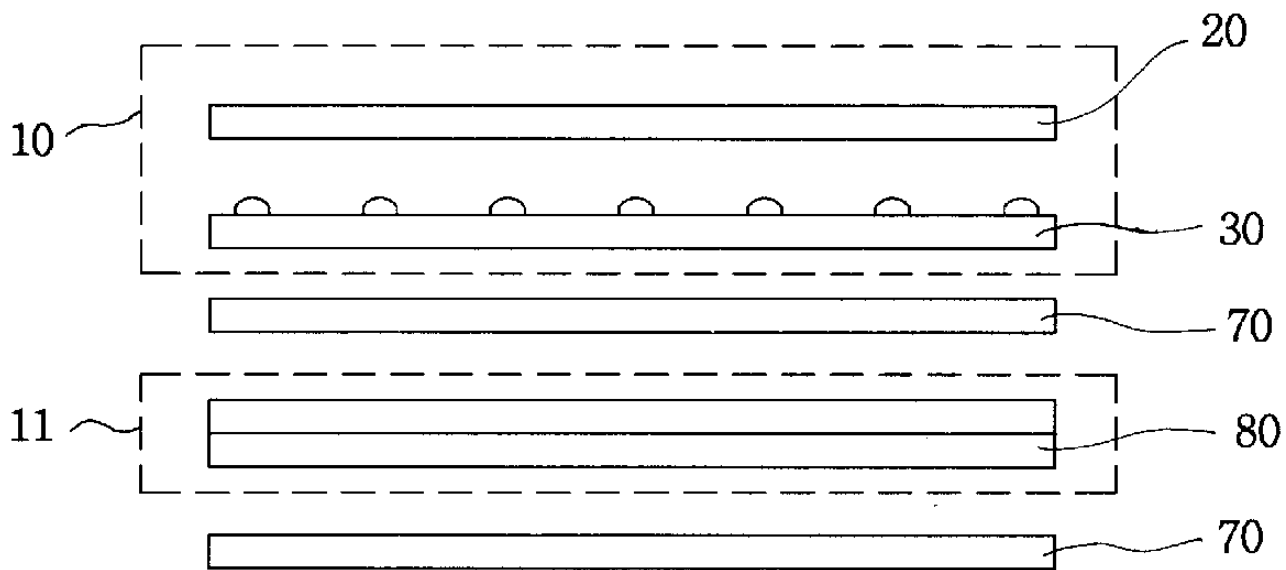
가 A/D

가 가

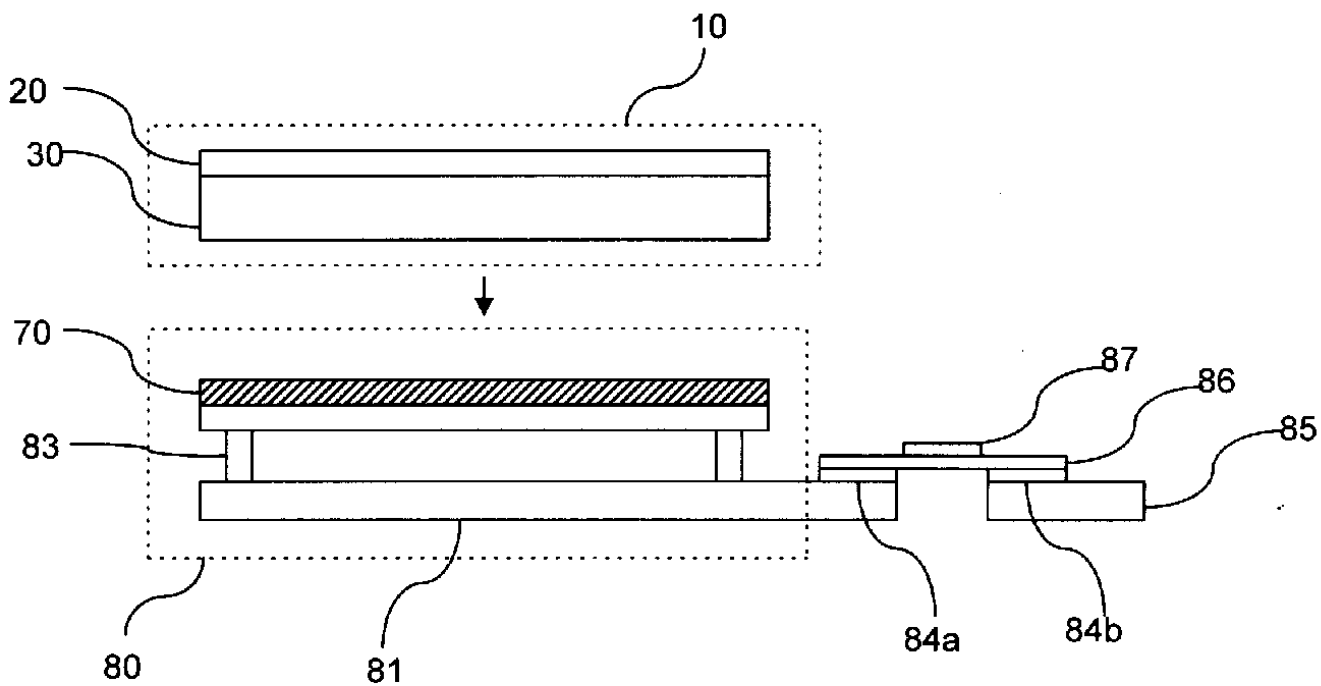
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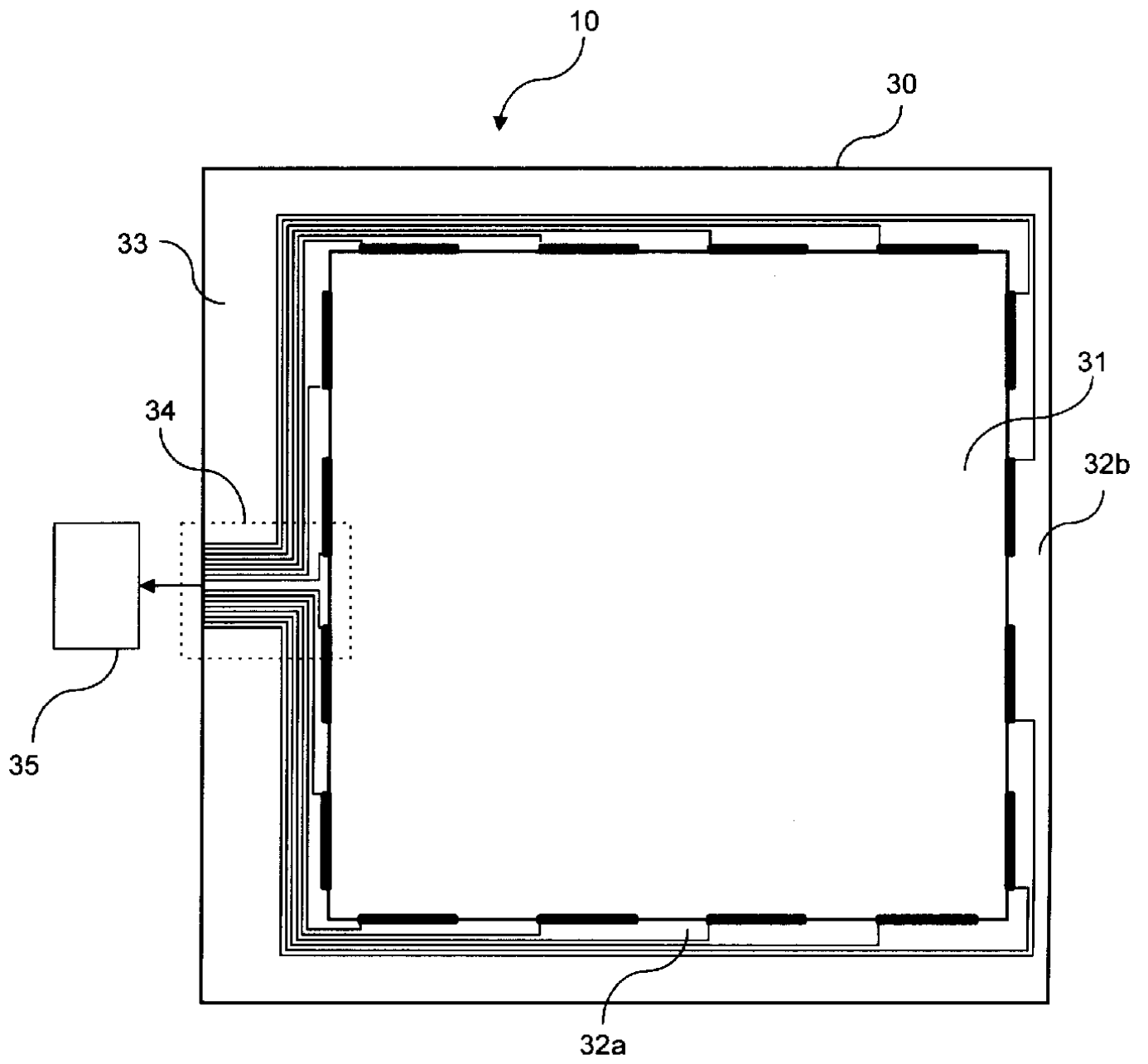
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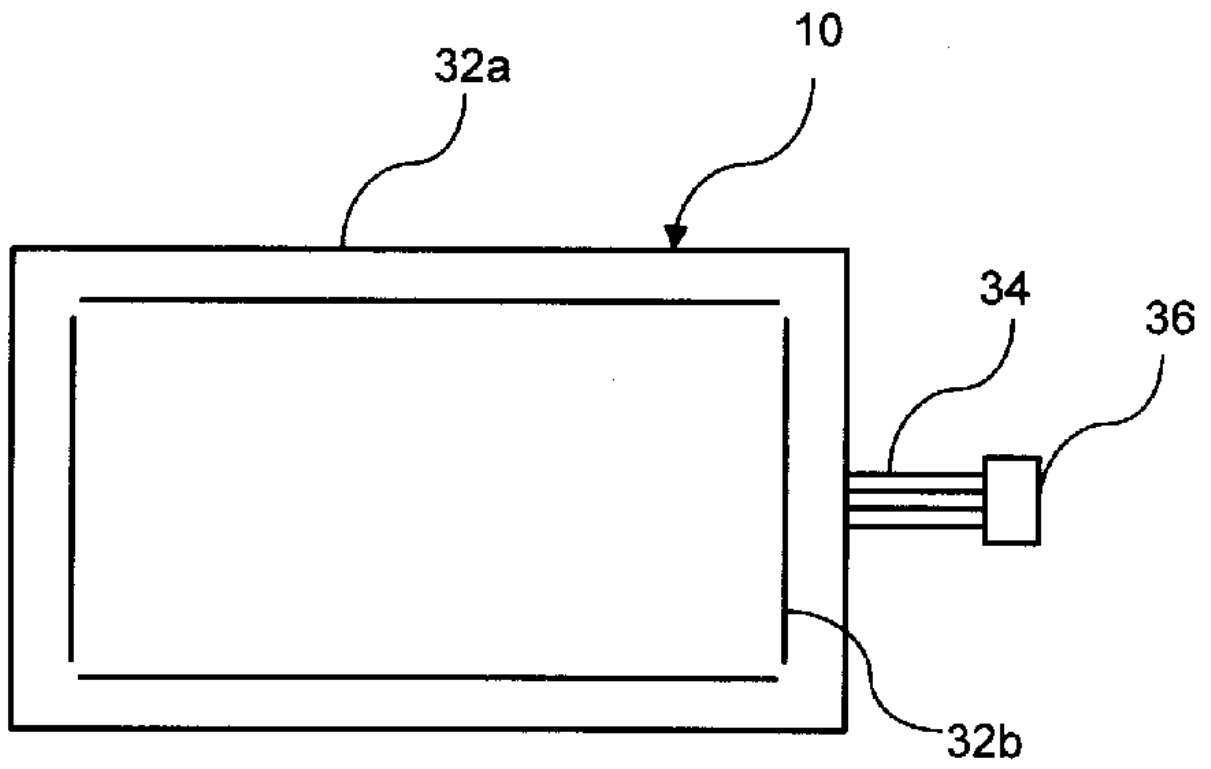
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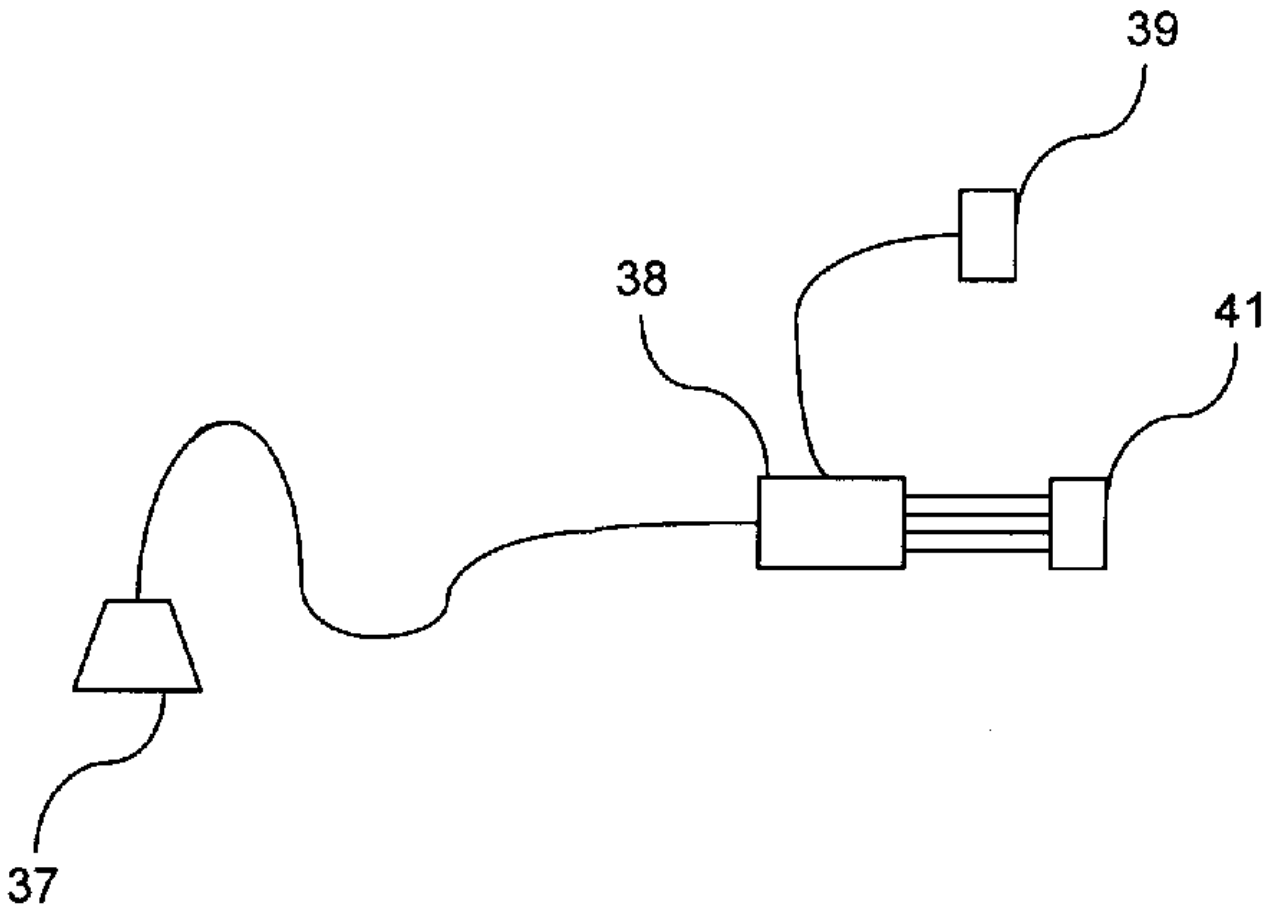
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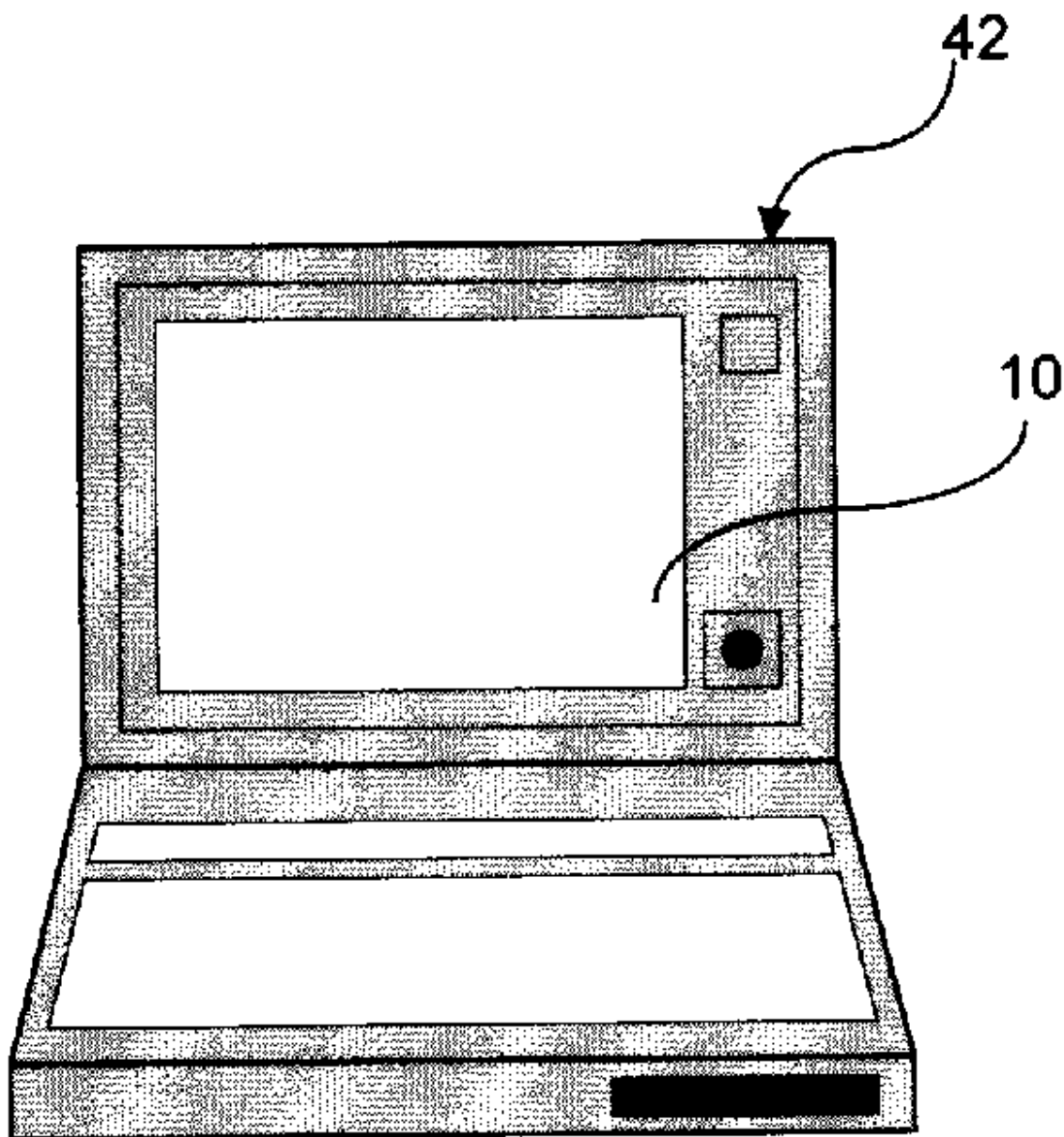
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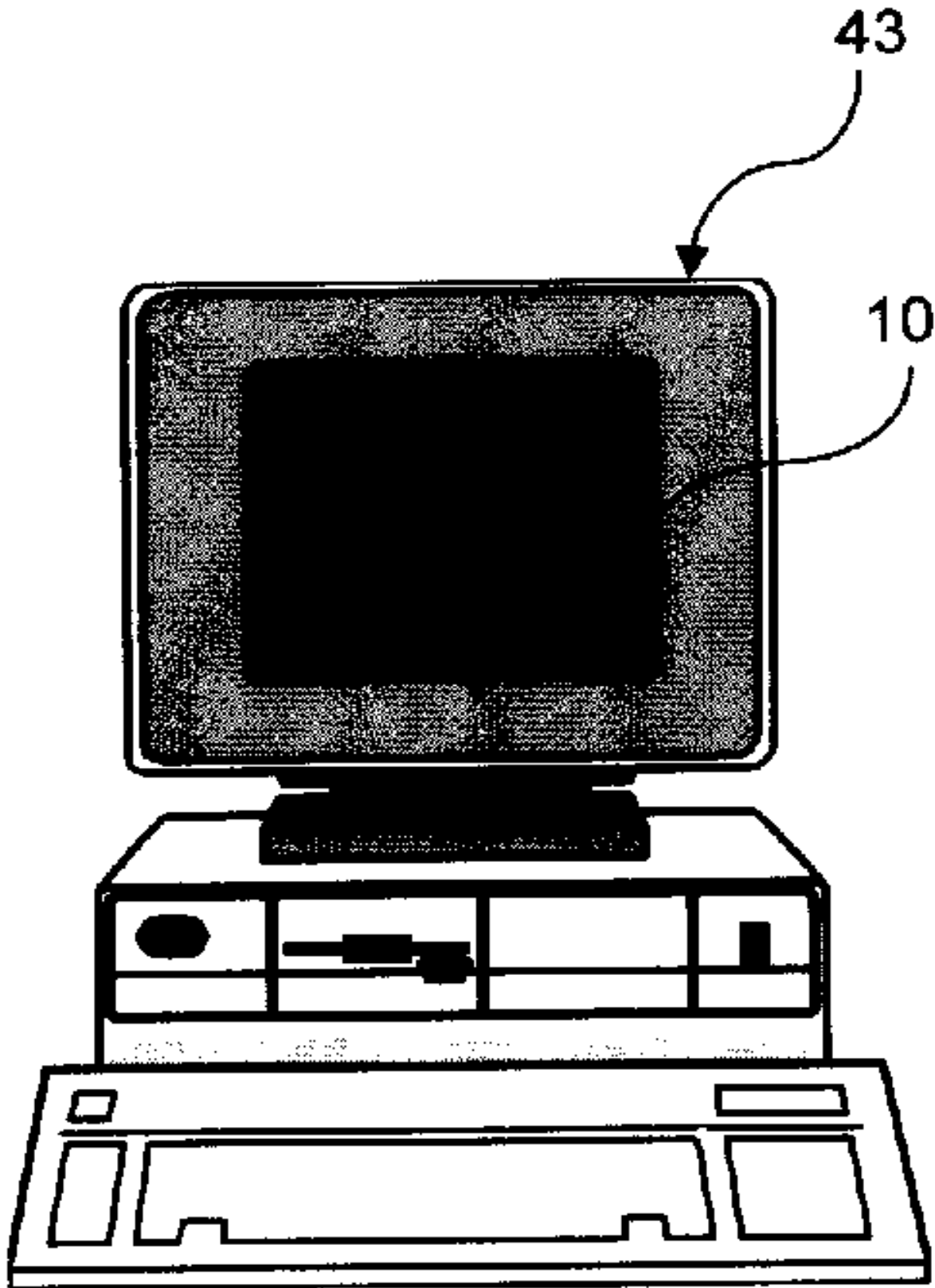
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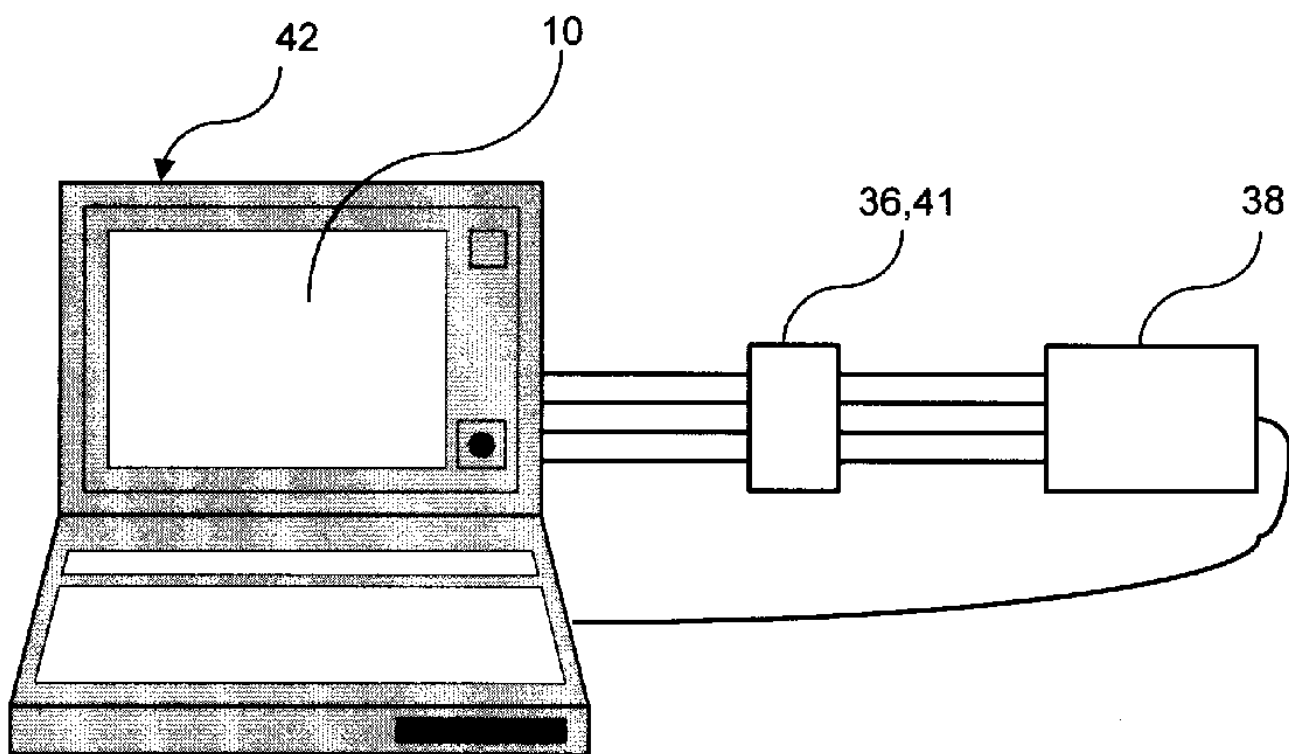
7a



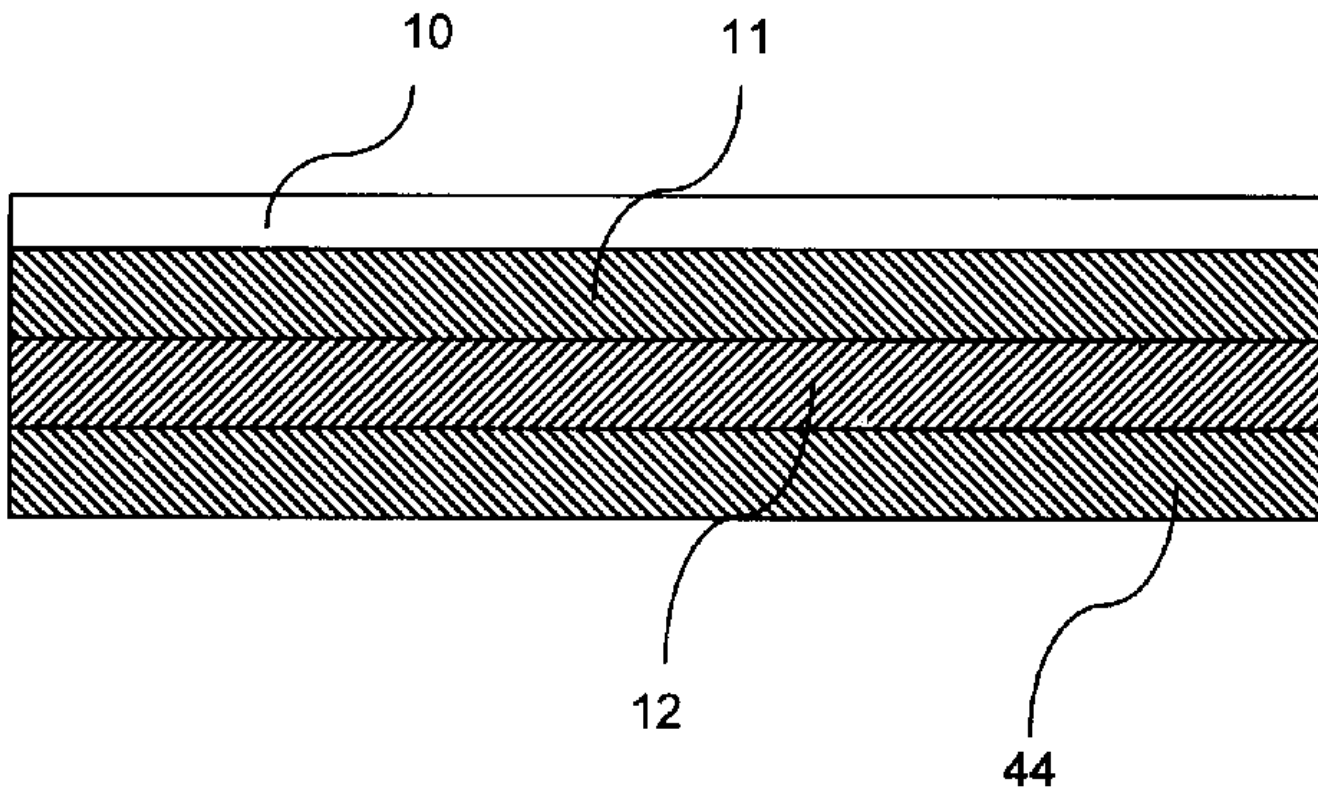
7b



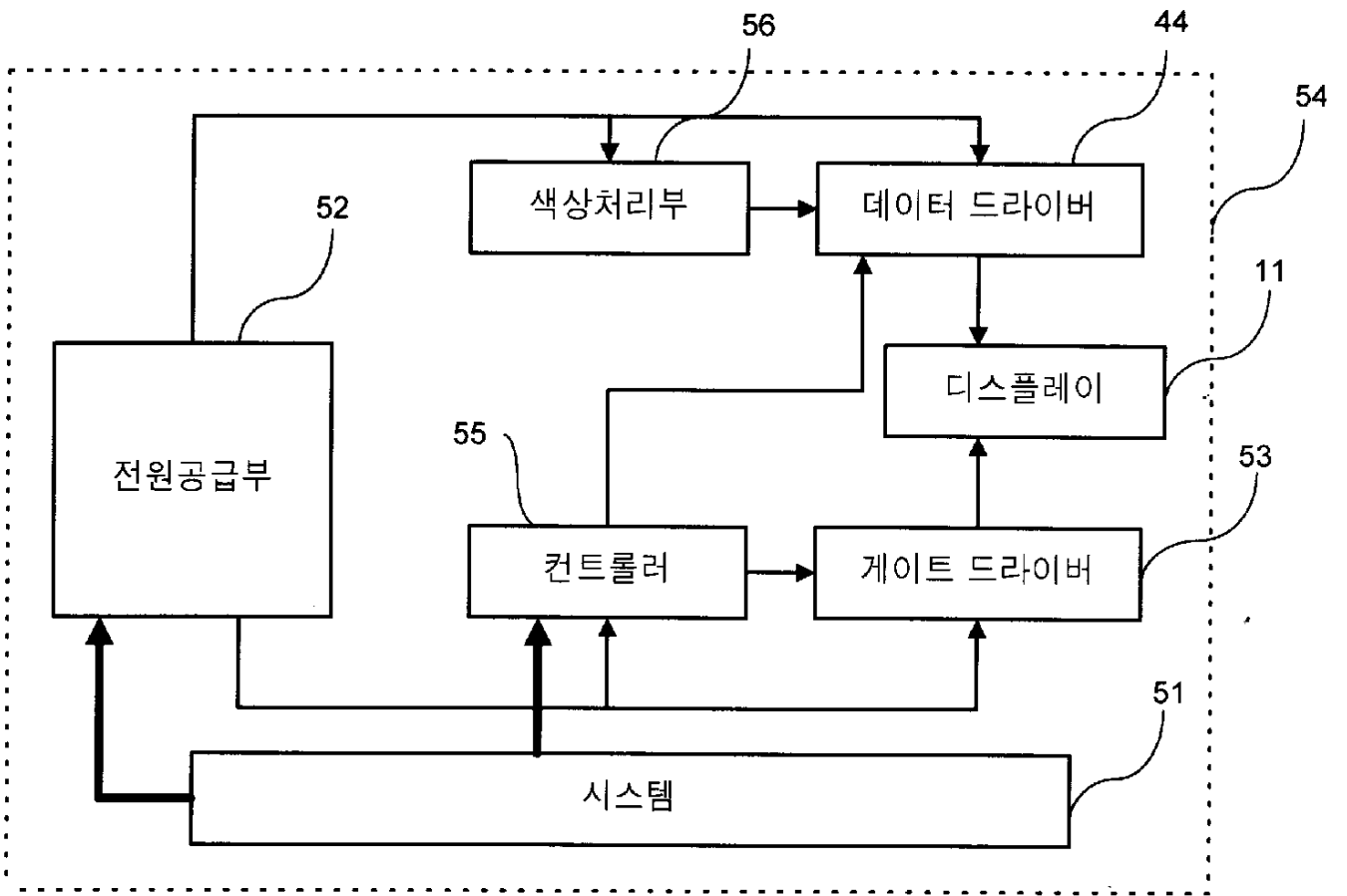
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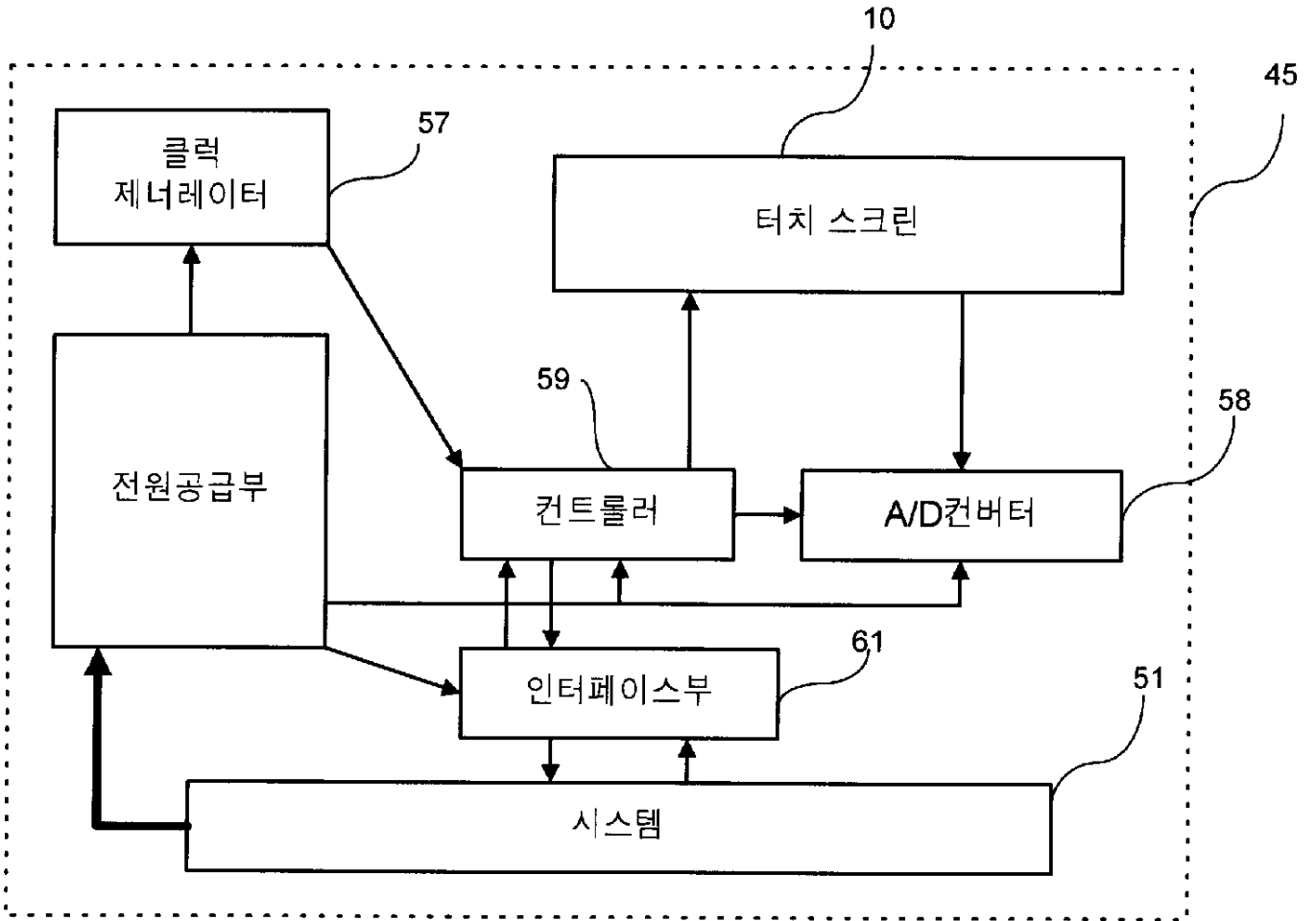
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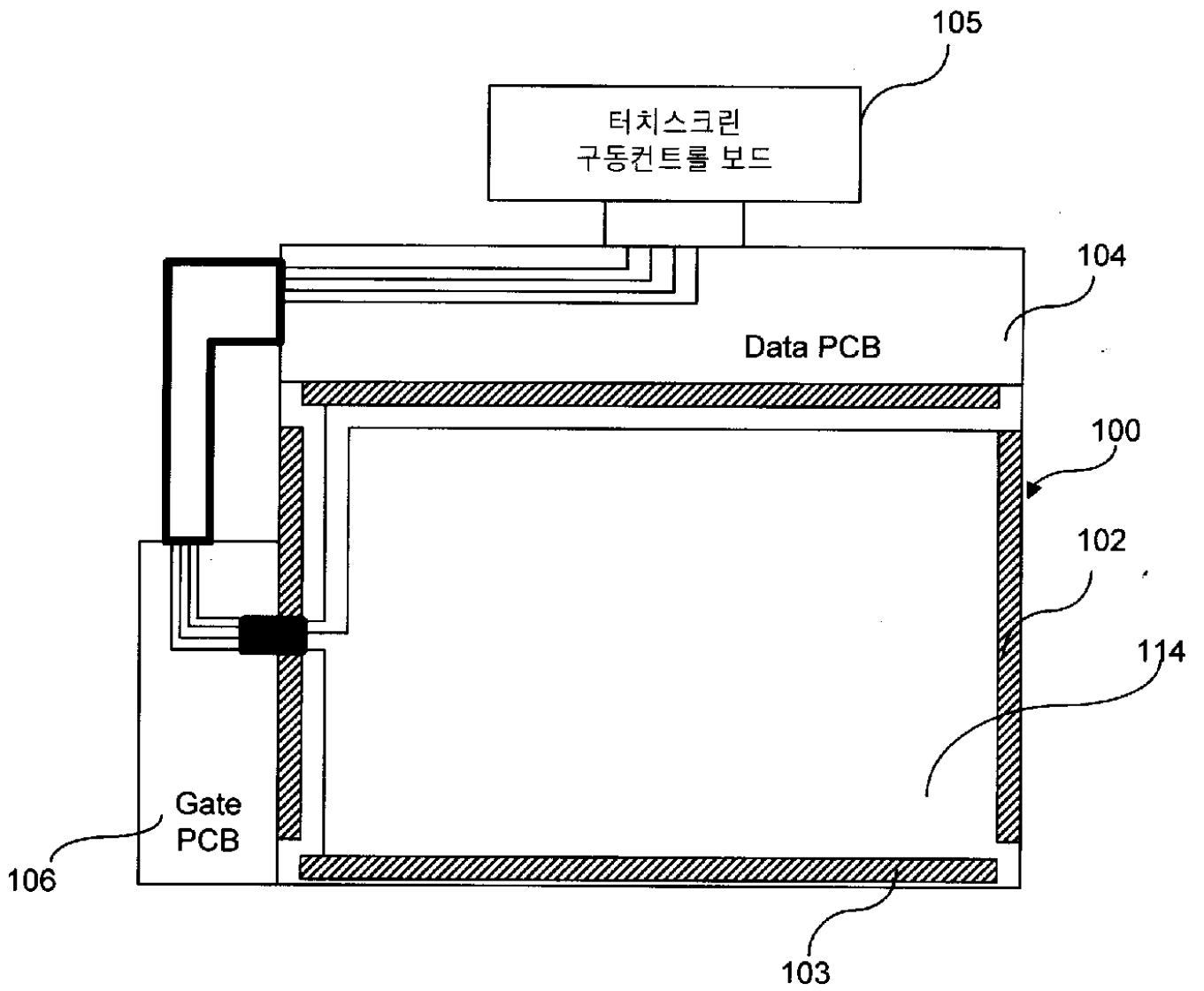
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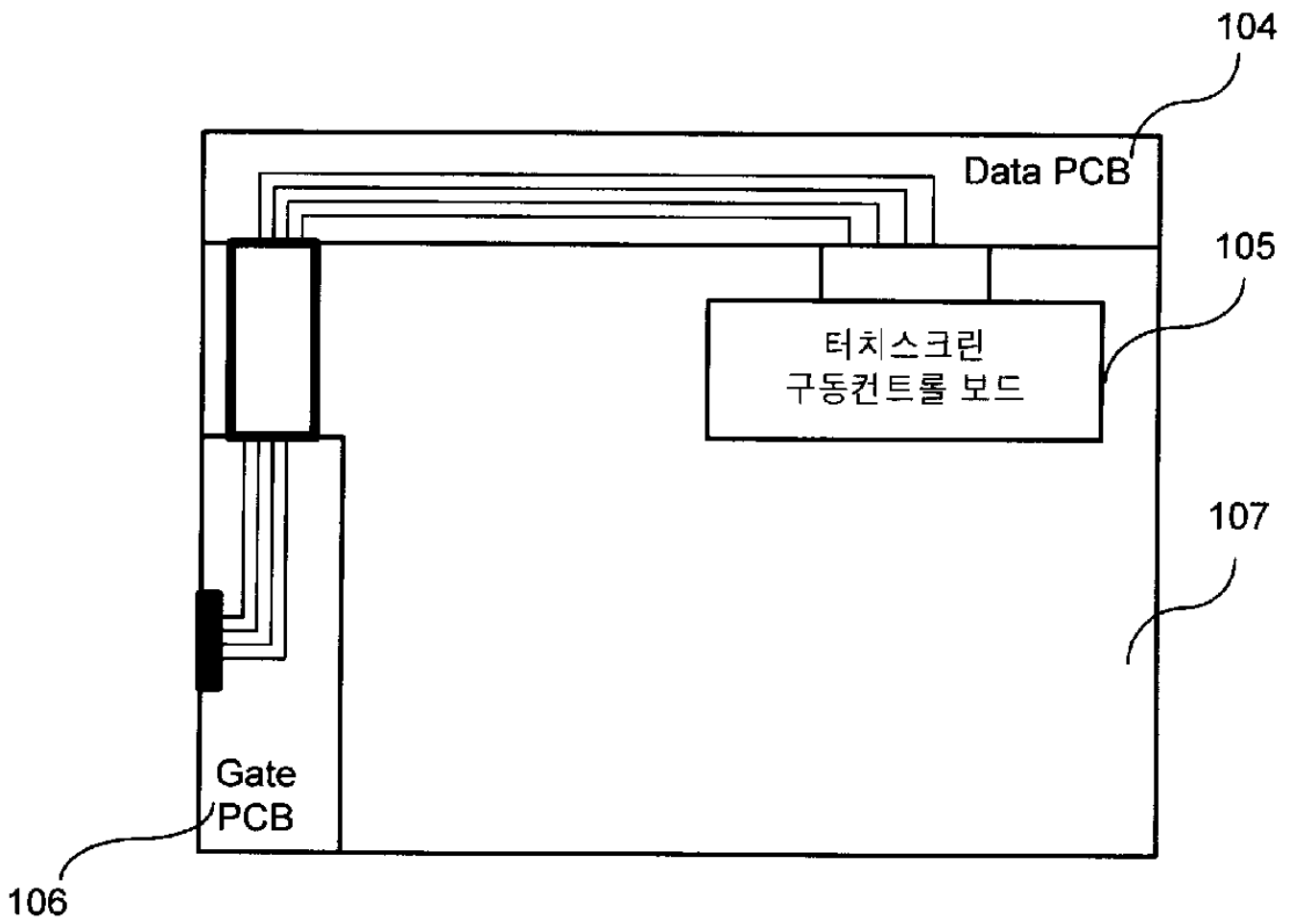


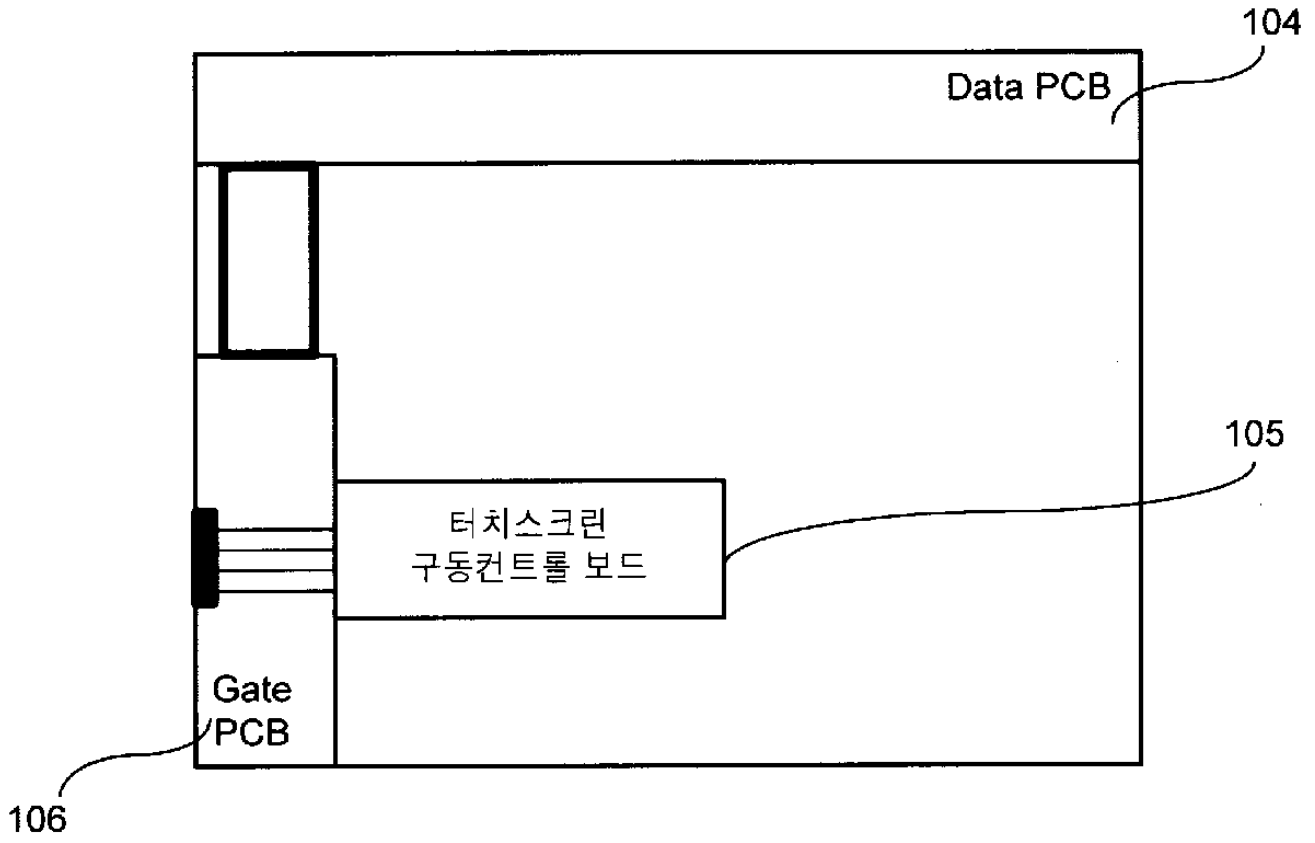
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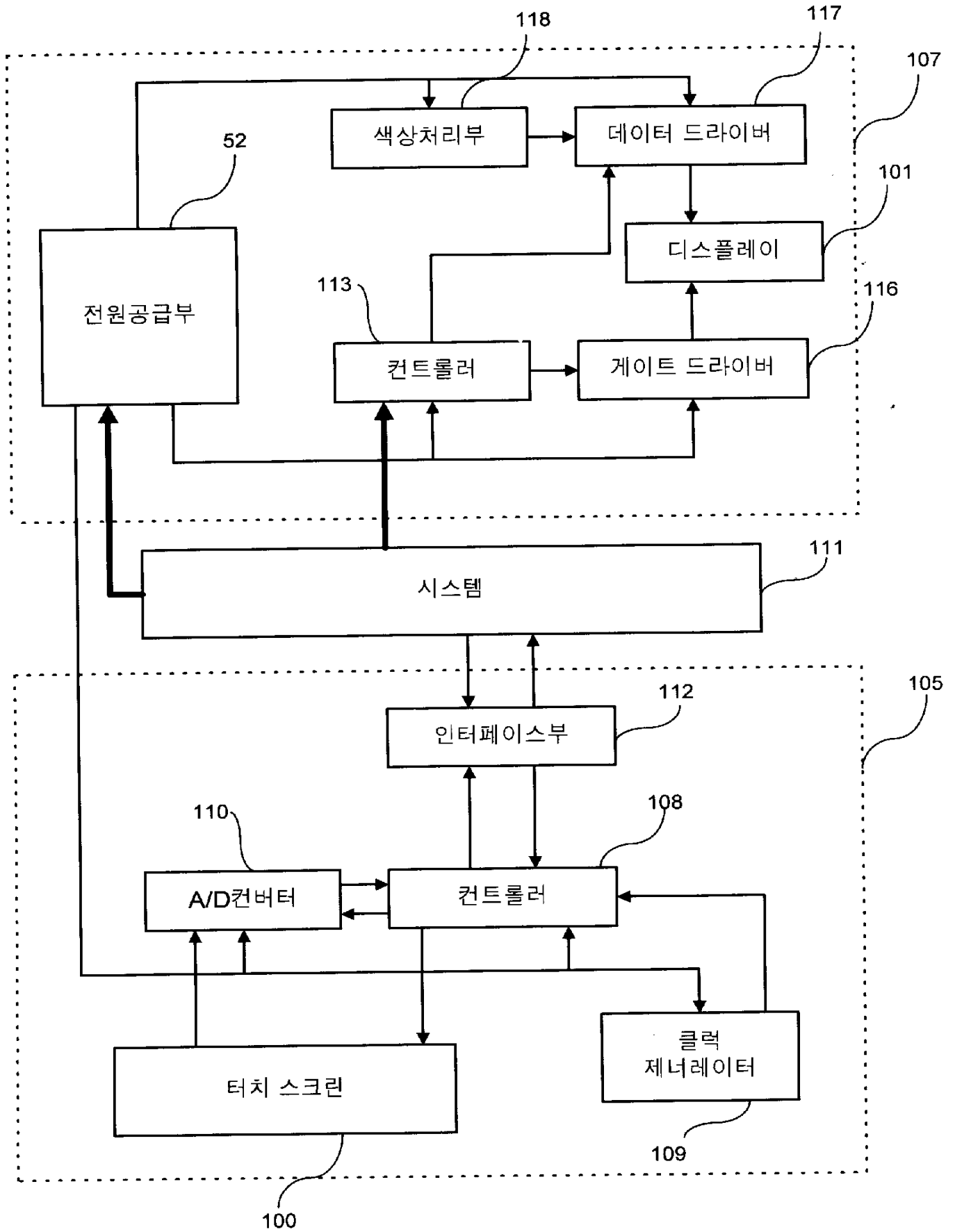
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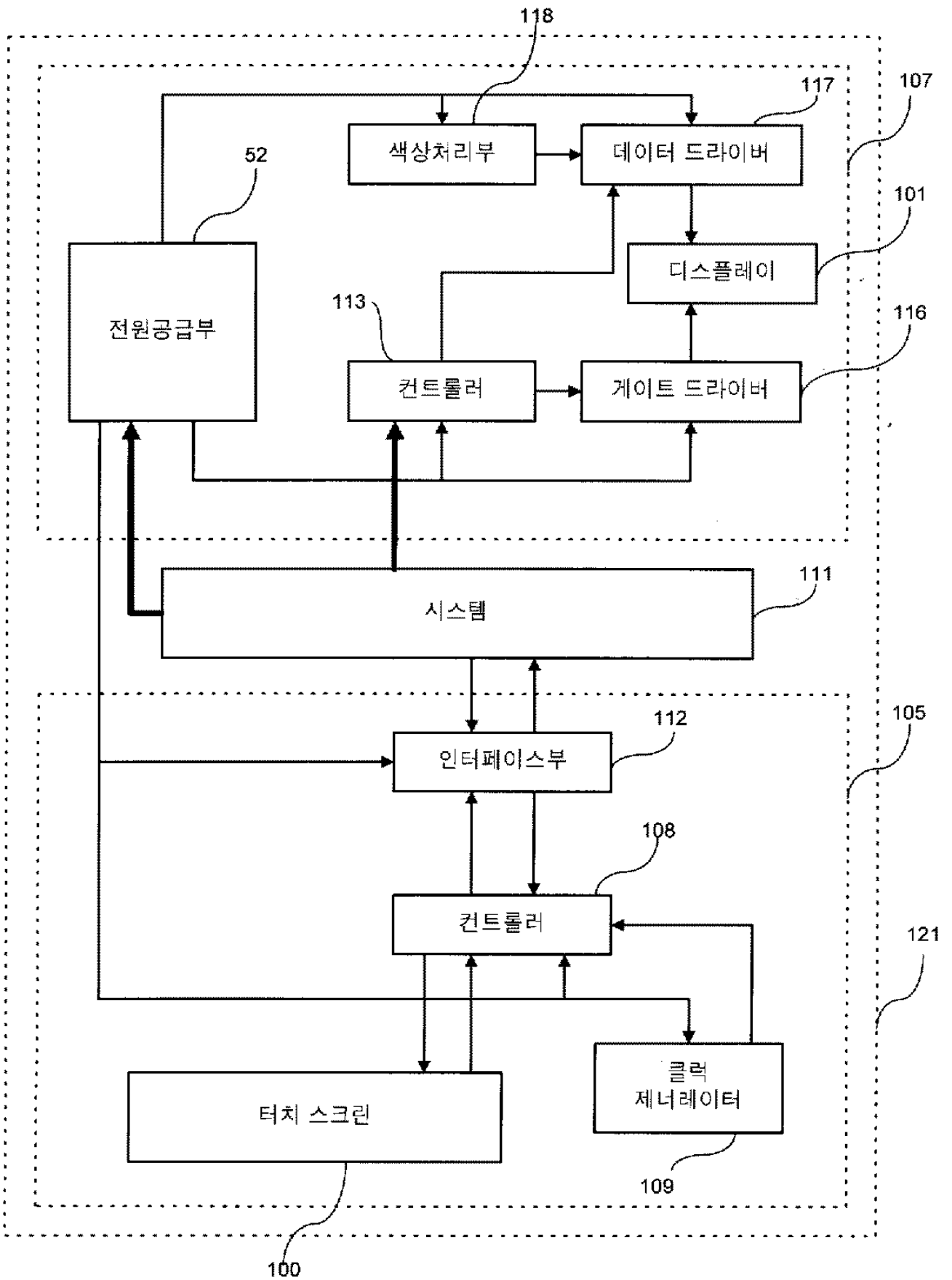




14



15



专利名称(译)	带输入设备的平板显示器		
公开(公告)号	KR200234683Y1	公开(公告)日	2001-10-10
申请号	KR2020010008400	申请日	2001-03-27
申请(专利权)人(译)	A股份有限公司.		
当前申请(专利权)人(译)	A股份有限公司.		
[标]发明人	OH YOUNGJIN		
发明人	OH,YOUNGJIN		
IPC分类号	G02F1/133		
代理人(译)	KIM , CHONG HWA		

摘要(译)

特别是，用于显示器驱动的板的经济效率和在同一PCB中组织用于触摸屏驱动的板的设计并减少输入装置或平板显示器上的信号失真并且与它们的压缩和制造相关联可以获得用于本发明的用于驱动的板的布线，将输入装置添加到平板显示器。其中添加本发明的输入装置的平板显示器包括至少一个时钟发生器和A / D转换器，其中用于驱动的驱动器显示用于在显示驱动基板上显示驱动的单控制器和触摸屏驱动它存在于显示驱动器和PCB中，其中触摸屏的驱动器是相同的并且用于驱动触摸屏的驱动器添加并且制作并且它与触摸屏的基板一起操作并且控制器提供时钟。并且接口单元调解关于与系统的关系的触摸屏数据。因此，设计的目的是组织触摸屏增强型平板显示器并考虑驱动电路布线的问题，以及连接布线上的故障，信号失真，尺寸，接口等变得可能。有可能。数字转换器，TFT-LCD，触摸屏，触摸屏，驱动控制板。

