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(72) 7 가 APT1217-1507

(74)  
:

(54) 가

가 X 2 , 가 1 2 , 2 2  
Y , 1 1 X 2  
1 2 , 1 2  
1 2 , 1 2  
FPC(Flexible Printed Circuit) Y 가 (Lead)  
FPC(Flex  
ible Printed Circuit) 가 , 가

6

FPC(Flexible Printed Circuit), (Lead) , 가 , , ,

1  
2  
3

- 4a 3 A-A' .
- 4b 3 B-B' .
- 5 .
- 6 .
- 7a 6 C-C' .
- 7b 6 D-D' .
- 8 .

가 (Cell Gap) . (Digiti  
 zer) (Input Device) .  
 (Digitizer) 가  
 XY  
 (Touch Panel) (Personal Digital A  
 ssistants: PDA) .  
 1 , 10 20 10 가  
 (Apparatus of Digitizer) (GUI.Graphic User Interface) 가  
 20  
 (Resistive), (Capacitive ), ( )  
 , 가  
 (Resistive) LCD , PDA, PC  
 가  
 , 0.2mm~2mm 1mm~2mm , 0.1mm~0.2mm  
 2 1 30  
 2 40 50 . 1 2 , 30,40 65

1 2 30,40 , X,Y (connector)

1 2 30,40 X,Y 4 ,5 ,8

3 4 ( 8 ) 3 4 ( 8 )

2 40 가 2 40 X 70a, 70b가 X

70a, 70b 100 Y 100 60a,60b가 X

Y 60a,60b 60a,60b 82a,82b X 70a, 70b

83a,83b 가 82,83 가 FPC(Flexibl

e Printed Circuit) 60a,60b,70a,70b 가

100 1 2 30,40 1 2 30,40 , FP

C(Flexible Printed Circuit)80 가 82,83 FPC(Flexible Printed Circuit)80

가 82,83 100

4 ( 8 ) 5 ( 7 )

1 X,Y 가 가

4 ( 8 ) FPC(Flexible Printed Circuit) 1 가 가

3 20 FPC(Flexible Printed Circuit) 80 가 82,83

가

4a 3 A-A' 4b 3 B-B'

4a , (T) 가 FPC(Flexible Printed Circuit) 80 1 2 30,40

가 82,83 가

(T) 가 FPC(Flexible Printed Circuit)80 가 82,83

1 2 30,40 FPC(Flexible Printed Circuit)80 1 2

30,40 (Cell Gap) FPC(Flexible Printed Circuit)80 가 82,83

0 a1 가 (PEN) 1 2 30,4

가 (D)가 가 5

4b FPC(Flexible Printed Circuit) 80 1 2 30,40 ,

(Cell Gap) (PEN) 1 2 30,40

(PEN) 1 2

가 (PEN) (PEN) 1 (PEN)

) 2 가 (D)가 가 가 가 가 가

1 2 (D) 가 가 가 가

가 (PEN) 1 2

가 X 2 , 가 1 2 , 2  
 2 가 X 2 , 1 1 X  
 Y , 1 2 , 1 2  
 1 2 , X Y 2  
 FPC(Flexible Printed Circuit) 가 가  
 (Lead) 1 2 가 , FPC(Flexible Printed Circuit) 가

6 6 , 4 ( 8 )  
 2 140 140a , X 170a, 170b가  
 2 140 가 170a, 170b 200 X 170a, 170b가  
 X 170a, 170b 200 X  
 1 130 130a가 Y 160a, 160b가 160a, 160b가  
 1 130 2 140a 130a가  
 , 120 가 가 FPC(Flexible Printed Circuit)180  
 가 182,183 X 170a, 170b 가 가  
 183a, 180b , Y 160a, 160b 182a, 182b  
 가 182,183 1 2 130,140 130a, 140a FPC(Flexible Pr  
 inted Circuit)180 160a, 160b, 170a, 170b 가 .

, 200 1 2 130,140 1 2 130,140  
 (Cell Gap) 1 2 130,140

4 ( 8 ) 5 ( 7 )  
 1 , 1 X,Y 가 가  
 . 1 . 1

, 5 ( 7 ) 가 FPC(Flexible Print  
 ed Circuit) 가 가 7a 1 2  
 가 가 , 가 1 2 FPC(Flexible Printed Circuit)  
 Gap) (Cell

7a 6 C-C' , 7b 6 D-D' .  
 7a , FPC(Flexible Printed Circuit)180 가 182,183  
 1 2 130a, 140a , FPC(Flexible Printed Circuit)180  
 가 182,183 a1 1 2 1  
 30,140 FPC(Flexible Printed Circuit)180 가 182,183 a1

, 1 2 130,140 FPC(Flexible Printed Circuit)180  
 7b (Cell Gap) , 8 .  
 1 2 130,140 (Cell Gap) ,  
 a1 FPC(Flexible Printed Circuit)180 가 182,183

가 , (PEN) 1 2

, , FPC(Flexible Printed Circuit) 가 가  
가 .

(57)

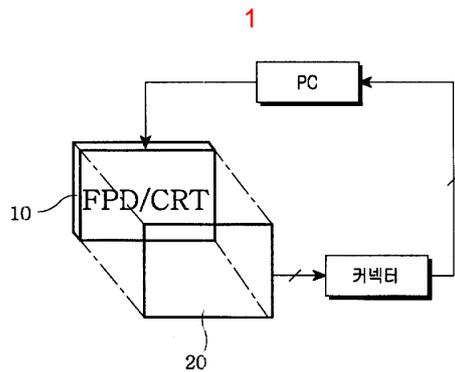
1.

,  
가 2 ,  
2 가 2 1 ,  
2 X ,  
1 X Y  
1 2 1 2  
1 2 ,

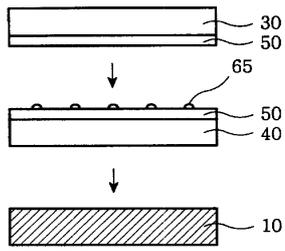
X Y 1 2 가 , FPC(  
Flexible Printed Circuit) (Lead) 가 ,  
가 가 FPC(Flexible Printed Circuit)

2.

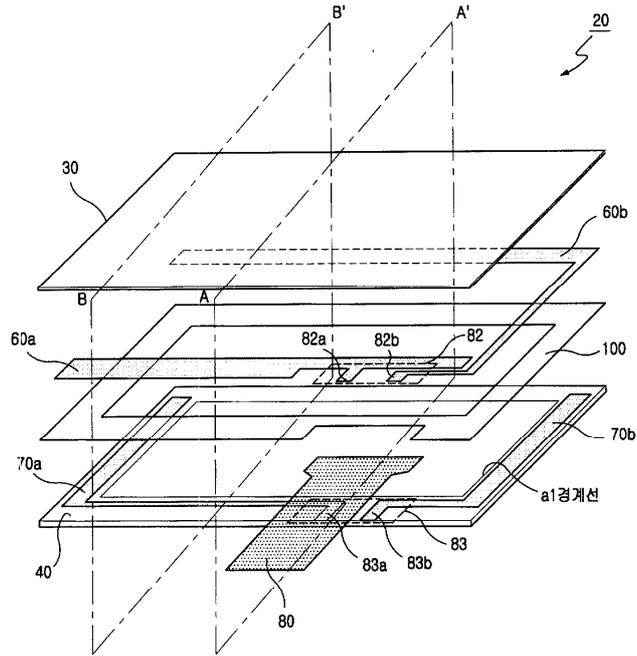
1 ,  
FPC(Flexible Printed Circuit) 가 1 2



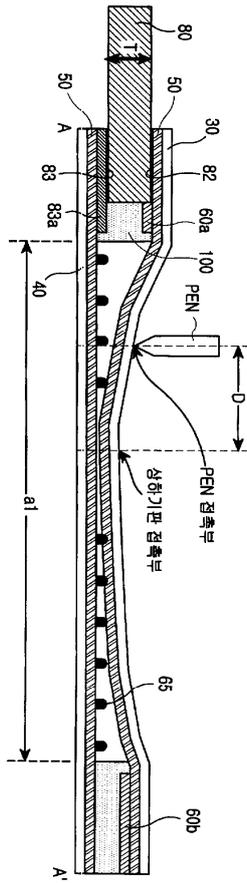
2



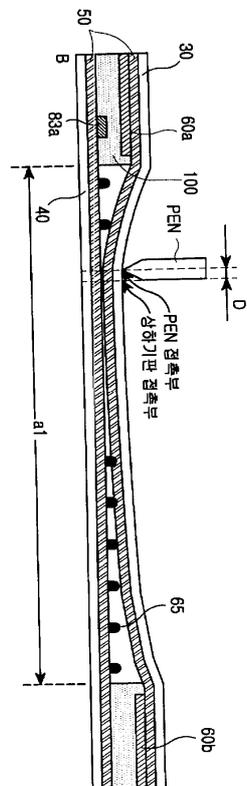
3



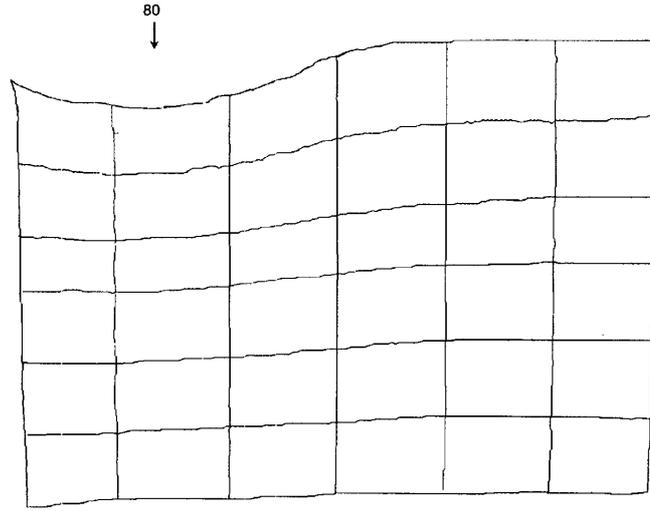
4a



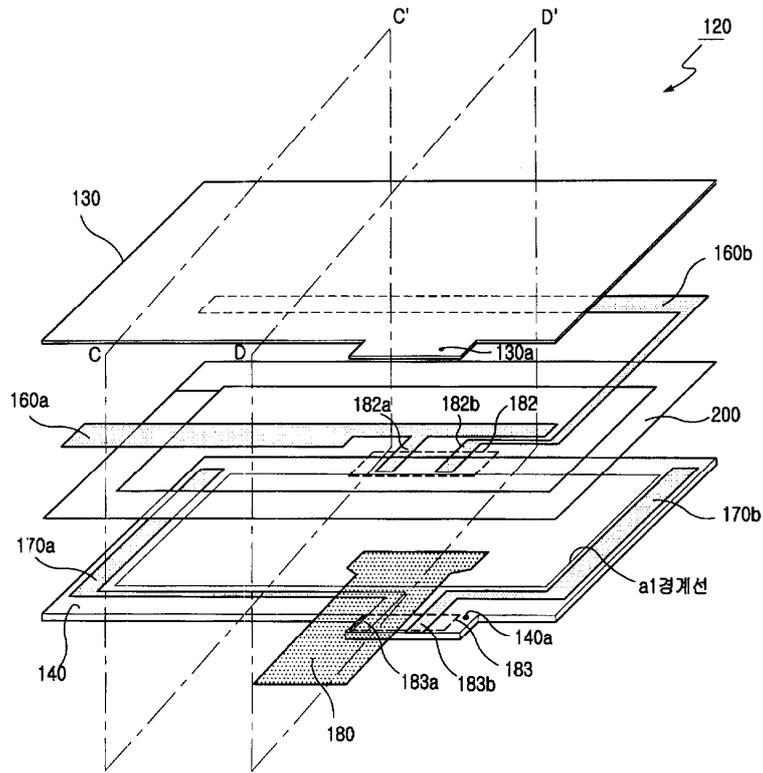
4b



5



6





8

180  
↓
