

(19)
(12)

(KR)
(A)

(51) . Int. Cl.⁷
C23C 14/04
C23C 14/02

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(43) 2004 10 27

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(86)	PCT/US2003/001877	(87) WO 2003/069015
(86)	2003 01 21	(87) 2003 08 21

(30)	10/076,174	2002 02 14 (US)
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(71)	55133-3427	. . 33427
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(72)	55133-3427	. . 33427
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(74)

(54)

가

(RFID)

1

, , , , ,

,

가

ning)

가

(photolithography)

(patter

가

,

가

(alignment)

(sag)

, 50

가

, (10A)
가 .

, 8 , , (80) (82) (10L) (10L) (10L)
) , , (82) (82) (10L) (10L) (10L)
, (82) (82) (52) (10L) (10L)

9
 (a) (92) (90)
 (92) (90)
 0.1, 0.5, 1, (56) (92)
 ,
 (90) (95A, 95B, 95C, 95D) (95) 9 (b)
 (99) (96) (97) (95)
 95) (95) (90), (95)
 (90) (90), (90)

2 10 , 23

10 , (100) (phase)
spot-writing) , (write)' (projection imaging
ng) , 1
가 ,
가 (UV) ,
가 ,

가

4 , 4 . (156)
8 . 5 (8)

, (154)
· (156) 가
, 2.5 mm
(156)

, 50 mm × 75 mm × 0.7 mm (float glass) (stiction)
1 . 1 0.5%
1 . 50 nm Pd

1 2 . 2 1
 , 200 nm Al₂O₃ 2

2 3 . 3 1
 , 50 nm 3

, 3 4 . 4 1
, 150 nm Au 4

가

2

100
[(Bayer) P(Baytron P)] , 40 nm NPD[N,N'-Di(- 1 - y
1)-N,N'
]

), 10 nm, CBP[4,4'-*b*(-9-yl)]⁺, 10% PtOEP(CBP)

, 가 , , , CBP 10% Ir(ppy₃)⁺ , (2-

), 10 nm, 가, 10 nm CBP, (CBP 10% (dopant) 가, 가, 50 nm, BAld[(1,1'-4-), (2-8-), 200 nm Al, 0.5 nm LiF,

(57)

1.

2.

3.

4

5.

5

7.

1

9.

10

11.

8 ,

12.

8 ,

1000

1

13.

8 ,

14.

,

15.

14 ,

16.

14 ,

17.

,

,

1

가

1000

18.

17 ,

1000

19.

17 ,

25

20.

19 ,

100

21.

가

,

가

가

22.

21 ,

가

가

,

가

23.

21 ,

가

가

가

24.

21 , 가

가

25.

21 , 가

26.

1

27.

26 ,

28.

26 , 1

29.

26 , 1

30.

26 ,

31.

26 ,

32.

31 ,

33.

31 ,

34.

31 ,

35.

26 ,

,

36.

,

37.

36 , 25 1 2

38.

36 ,
1 2

39.

38 , 1 2 1

40. 39 , 1 2 25

41. 40 , 1 2 500

42. 36 , 1000

43.

44. 43 ,

45. 43 ,

46. 43 , ,

1

47.

48. 47 ,

49. 48 , 가

50. 47 ,

51. 50 ,

52. 50 ,

1

53.

47 ,

54.

53 , 1

55.

54 , 25

56.

47 , 1000

57.

56 , 50

58.

57 , 20

59.

1 , 1000 가

60.

59 , 5 50

61.

1 , 1000

62.

61 , 20

63.

61 , 1000

64.

63 , 50

65.

66.

65 , 1000

67.

65 , 1000

68.

65 ,

69.

65 ,

70.

69 ,

71.

65 ,

72.

71 ,

73.

, 1 ,

74.

73 , 1000

75.

73 , 50

76.

73 ,

77.

,

가

78.

77 ,

79.

77 , 1000

80. , 1000 2
77

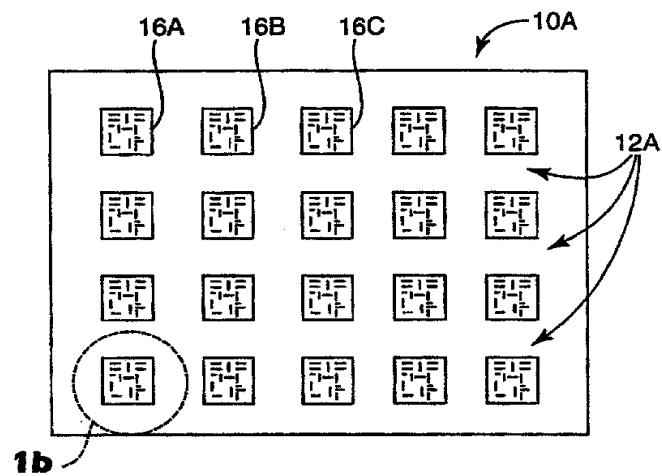
81. , ,

82. ,
81

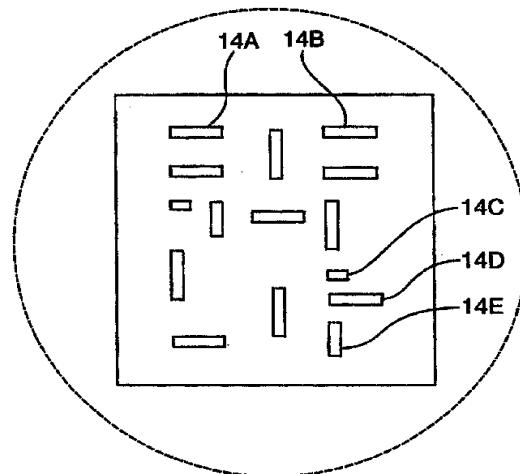
83. , ,
81

1

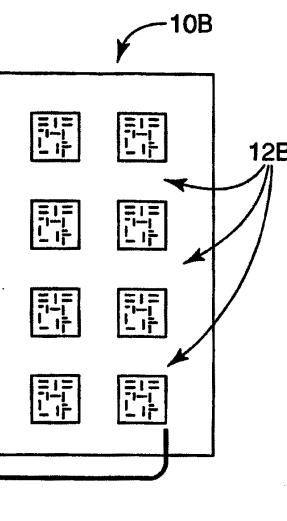
(a)



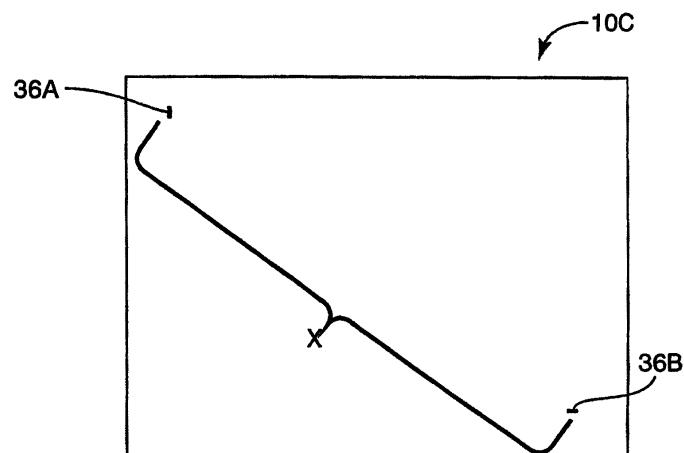
(b)



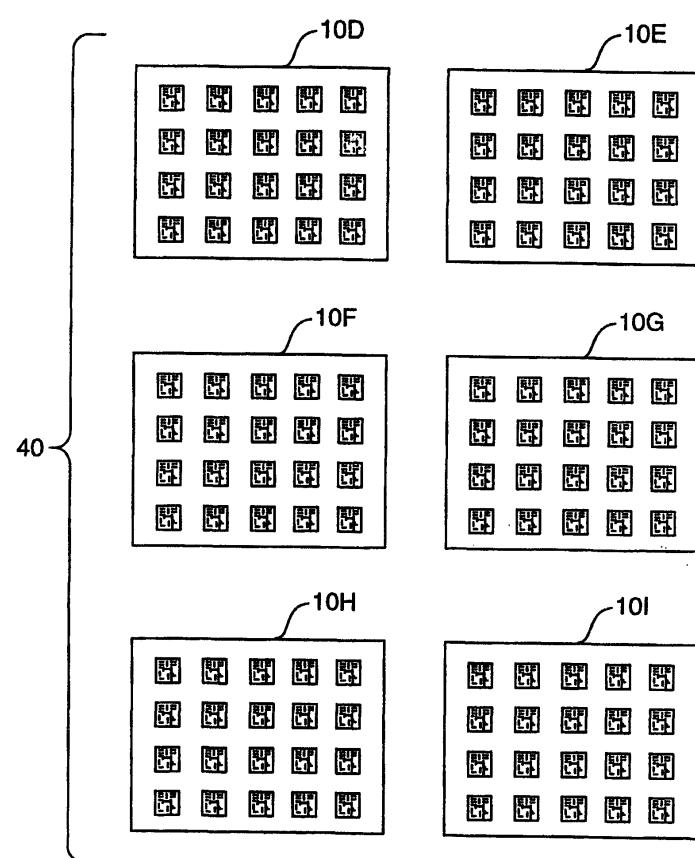
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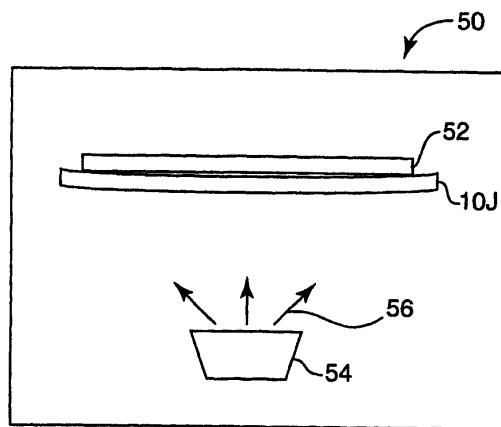
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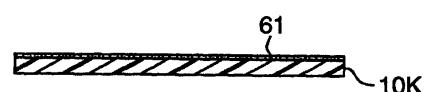
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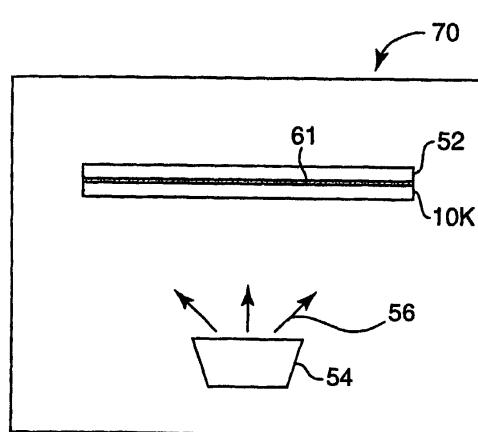
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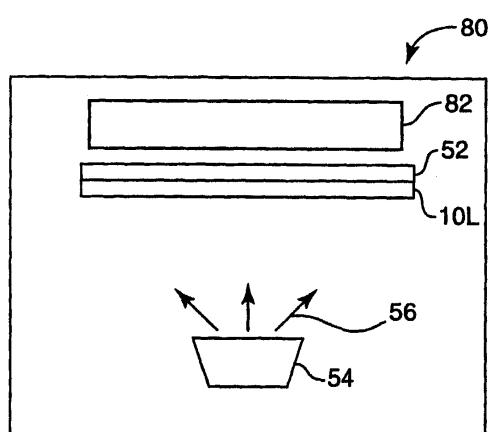
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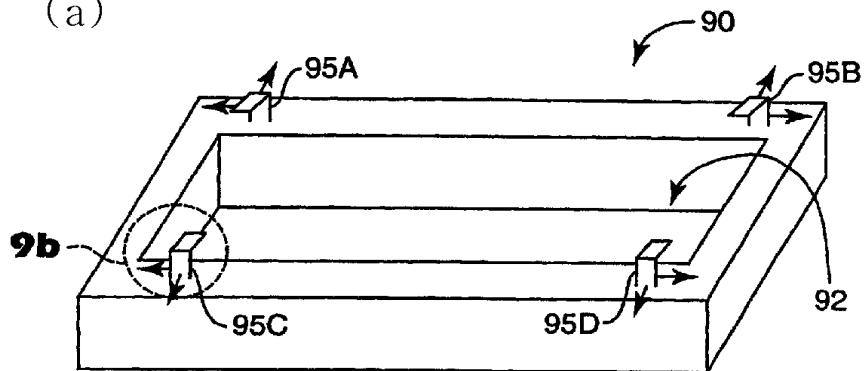
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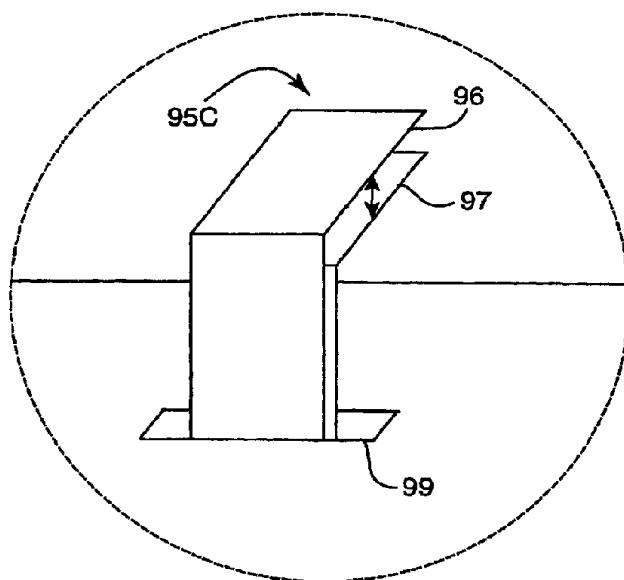
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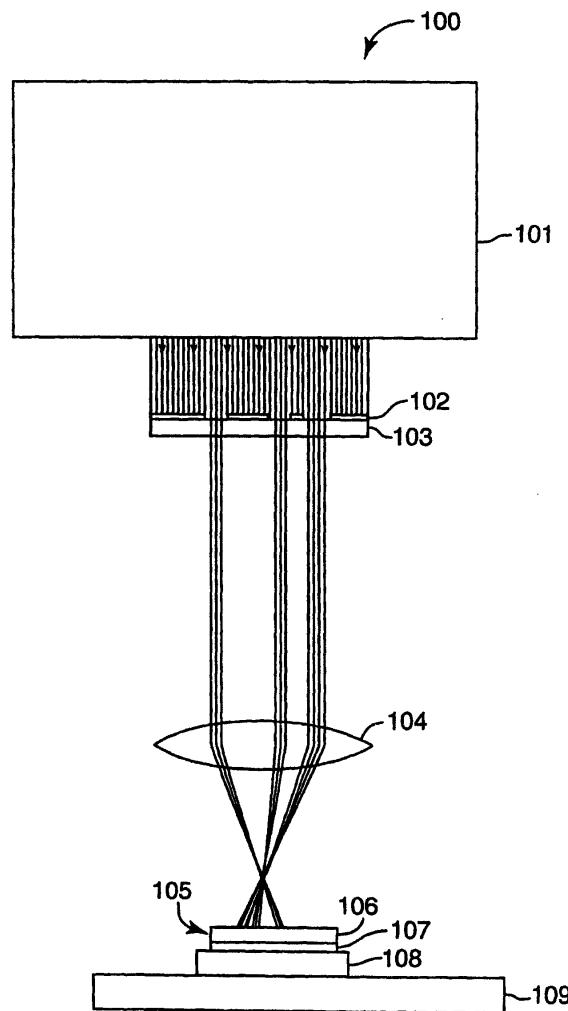
(a)



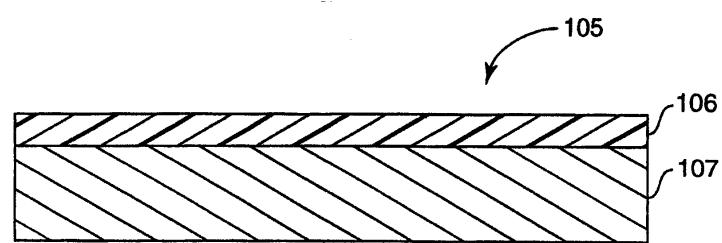
(b)



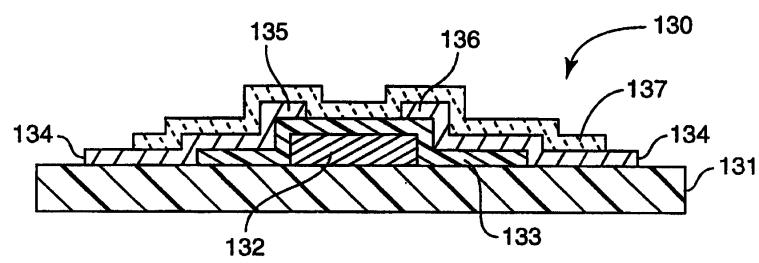
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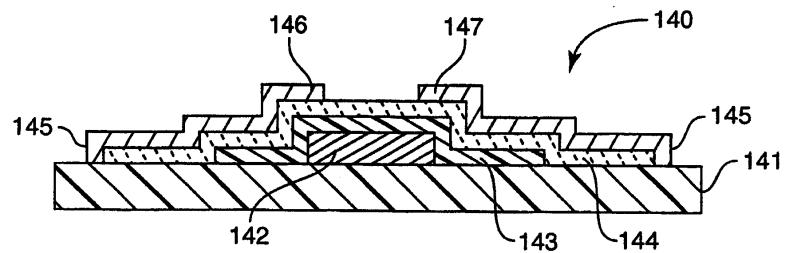
11



12



13



14

