

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

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H01L 29/786
H01L 51/20
H01L 21/336

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(43) 2004 12 14

(21)	10-2004-7017661		
(22)	2004 11 02		
	2004 11 02		
(86)	PCT/US2003/012022	(87)	WO 2003/094219
(86)	2003 04 17	(87)	2003 11 13

(30)	10/137,562	2002 05 02	(US)
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(71)	55133-3427	.	33427
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(72)	,	55133-3427	33427
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,	55133-3427	33427
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,	55133-3427	33427
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,	55133-3427	33427
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(74)

(54)

, , , ,

5 μm), (web-handled), (

가 , 가

, , (stationary) (,
) (, , (feature))
가

gistration), (misrepresentation), (patterning).

, n-, p-, (CMOS)

, , , 1 2

가

, , 가 .

1

2a 2c

3a 3b CMOS

4 가

(aperture)

(TFT)

(, S.M.Sze, Physics of Semiconductor Devices, 2nd edition, John Wiley and Sons,
 page 492, New York (1981)). 1 (10) (12)
 (14) (18) (16) (22)
 (20, 30) (,) (24)
 (26) (28) (16)

가

(,) . ,

, , 가

, () 180 (), ()

5 50 μm (, 5 20 μm)

(,)

가

CMOS
(24), (26), (12), (14)
2, (34)) 3b, (18)
가
가
(10)
가
(),
4, , 가
가
가
),

가 . , (RFID) (, K. Finkenzelle
r, RFID Handbook , John Wiley and Sons, New York(1999)), , (,
, S.Sherr, Electronic Displays , John Wiley and Sons, pp. 201-340, New York (1993))

가 (), (), B.El-Kareh, Fundamental
s of Semiconductor Processing Technologies, Kluwer Academic Publishers, pp.169-252, Boston(1995)
).

.) 가 , 가 (EDM)
- EDM (,) 가
가 .

4 - , , , /
 , , (, , - 1, 4 - , , - 1, 4 - , ,) (, , (, ,) (PEN), , (, ,) (PET), , (, ,) (FRP), ,)

(balance)

2001 9 26 09/966,954
09/966,961 .

2 ' , , , NIST 92
('Polycyclic Aromatic Hydrocarbon Structure Index',
U.S. Govt. Printing Office, by Sander and Wise(1997))

, , CMOS 1 () 2 (, , 5,625,
199 ,). CMOS . ,

(ribs) 가 100 μm (Shipley
 Laminar 5040, Shipley Company, L.L.C. 455 Forest Street, Marlborough, MA)
 UV
 (rib) 190 135 μm ,
 300 μm

(Aldrich Chemical) 3 (Thermolyne 79500 tube furnace, from Barnstead Thermolyne, Dubuque, Iowa) , 가 . (10⁻⁶ Torr (1.33x10⁻⁴ Pa) HMDS (,) 4 00 . 65 .

가 (TFTs) (S.M. Sze, Physics of Semiconductor Devices, page 442, John Wiley & Sons, New York, 1981) .
 , 0V 60V - , I D V D T
 TFTs가 (4145A, Hewlett - Packard
 , San Jose, CA)

가

가

(57)

1.

가

,

2.

1 ,

가

3.

1 ,

4.

3 ,

5.

1 ,

가

6.

1 ,

7.

1 ,

8.

7 ,

9.

8 ,

10.

8 ,

11.

7 ,

12.

11 ,

13.

,

,

1

,

2

,

14.

13 , 가 .

15.

13 , 1 2 . 가 .

16.

13 , .

17.

16 , .

18.

13 , .

19.

13 , 1 , 2 .

20.

1 , , , , . 가 , .

21.

20 , , , .

22.

20 , .

23.

1 , .

24.

6 , , , .

25.

1 , . 가 .

26.

25 , , .

27.

, , , , , , .

28.

27 , . 가 .

29.

27 , .

30.

27 ,

31.

29 ,

32.

30 ,

33.

29 ,

가

34.

,

,

, 1

, 2

, ,

,

35.

34 ,

가

36.

34 ,

2

가

37.

34 ,

가

38.

37 ,

가

39.

34 ,

가

40.

27 ,

가

가

41.

27 ,

42.

27

43.

34

44.

27

45.

34

46.

27

47.

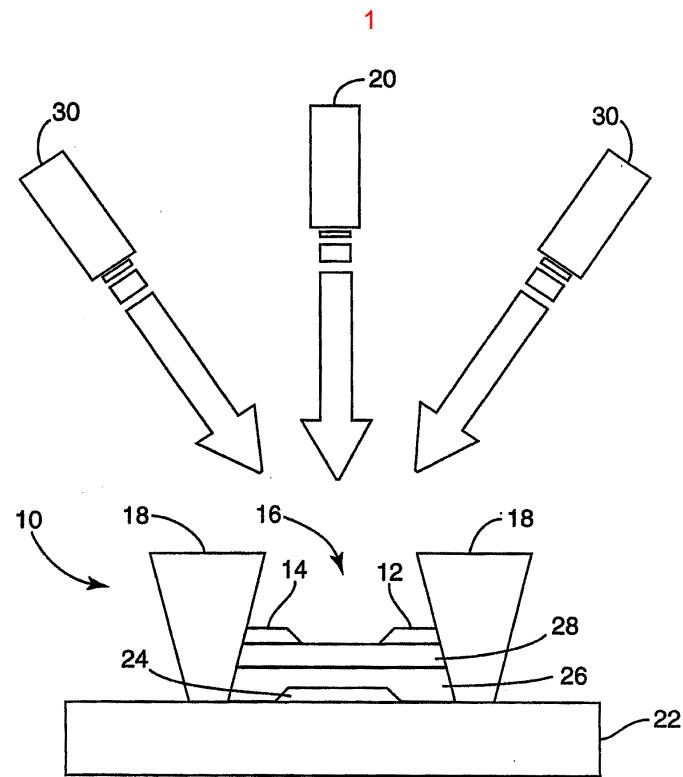
34

48.

27

49.

34



2a

