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10-0465819
2004 12 31(21) 10-2001-0073662
(22) 2001 11 26(65)
(43)10-2002-0041293
2002 06 01

(30) JP - P - 2000 - 00360205 2000 11 27 (JP)

(73) 가 가
3 30 2

(72) 3 30 2 가 가

3 30 2 가 가

3 30 2 가 가

(74)

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(54)

, (100) (200) (300) (120) ,
 (130) 가 , (210) (110)
 , (110) ,

1

1
2
3

4

100 :	110 :
120 :	121 :
122 :	123 :
124 :	125 :
126 :	130 :
131, 211 :	132, 212 :
133, 213 :	200 :
210 :	300 :

가 (NA) 가 i 가 g i 가 , 248nm 193nm , 157nm 가 , 180nm , 1/3 , 60nm , 1/3 , 24 38GHz , W-CMP(T (Cu dual da

DRAM (home wireless LAN) CPU (Bluetooth) IT , 가 , 24 38GHz

LMDS(Local Multipoint Distribution Services) 77GHz ITS(Intelligent Transport System) MMIC(Millimeter-wave Monolithic Integrated Circuits)

ungsten Chemical Mechanical Polishing) , Cu (Cu dual da

HEMT(Pseudomorphic High Electron Mobility Transistor), M-HEMT(Metamorphic-HEMT) SiGe SiGeC P- HBT(Heterojunction Bipolar Transistor)가 , GaAs InP

(110) (131), (110)
 ((132) (130)
 (133) (210) , (100)
 (210) (300) (100) (200)
 (120) (110) (120) , (200)
 (200) , (110) (110) (110)
 (110) (110) (300)
 (TCP/IP)
 (200)
 (110) (110)
 , 가 가 ,
 (100) (200) 가
 (100) (110)가
 (210) (110) (211),
 (110) (212)
 (210) (213)
 (120) , (110) (121),
 122), (100) (123), (200) (124),
 (123) (124) (125) (130)
 (210) (126)
 130) (210) (121) , (1
 30), (210) ((110)가 (200) (10
 0) , (100) (110) (200)
 , (130) (110) (122) , (110)
 가 가 (110) (121)
 가 가
 (123) , (100) (110) (110)
 , (200) (123) (125) ,
 (100) 가 (200) (, (210)) , (20
 0) 가 (123)
 (124) , (110) (200) (110)
 , (100) (125) ,
 (124) (100) (, (130)) ,
 (200) 가 (124)
 (100) 가
 2 (122) (120) (S401) ,
 (120)가 (130) (120) (S402) ,
 2) (130)가 (110) (120)가 (S403) ,
 (S403) , (S409) (121) 가 (100)
 (S403) , (S404) (, 가 (200))
 , (S407)
 (S403) , (110) (S404) ,
 (120) (130) (110) (S405)
 , (120) , (126) , (130) (110)
 (110) (130) , (131) (11
 0) (130)
 (120) , (130) (210) (130)
 (110)

(S406) , (130) (110) (, , (S406) , (S401) , (S403) 가 (200) (S407) (120) , (200) (100) (110) 가 (S407) (S407) (120) , (S404) (S407) , (S408) (120) (130) (131) (110) (100) 가 , (200) (130) (110) (,)

(S402) 가 (210) (S409) (120) (110) , (S410) (121) 가 (200) (S409) (, 가 (100)) , (S413) (S409) , (110) (S410) , (120) (210) (110) (S411) , (120) , (126) , (210) (110) (210) , (110) (210) , (211) (110) (210) (210) , (211) (110) (120) , (210) (130) (210) (110)

(S412) , (210) (110) (S412) , (S401) (S409) 가 (100) (S413) (120) , (100) (200) (110) 가 (S413) (S413) (120) , (210) (S410) (S414) , (200) 가 , (100) (211) (110) (110) (,)

3 (213) (210) (S501) , (210) (200) (212) (300) (120) (110) (S401)) (S502) , (210) , (110) (120) (S502) , (S404)) , (S503) (S502) (S407) ,) , (S507) (211) (S408)) (S503) , (210) (200) (212) (S504) , (210) , (120) (110) (300) (S405)) (S505) , (210) (120) , (211) (S506) , (110) (S506) , (S508) (120))

4 (133) (130) (132) (S601) , (130) (100) (132) (120) (110)) (S401)) (S602) , (130) , (120) (110) (S602) (S410)) , (S603) (S602) (S413) ,) , (S610) (131) (S414)) (S603) , (130) (110) (S604) (110)가 (,) (S608) (S604) , (130) , (100) (132) (120) (S604) , (110) (S411)) (S605) , (130) (120) (110) (S411)) (S606) , (103) (120) , (131)

(S607) , (110) (S607) , (S609)
(120)) .

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(57)

1.

가 1 ,
가 2 ,
2 1 가 2 ,
가 ,
가 ,
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2.

3.

1 , 1
2

4.

3 , 가 , 1 2
,

5.

1 , 가 2 가 , 1 가
가

6.

1 , 가 1 가 , 2 가
가

7.

1 , 1 2
, 2 가 1 2
가

8.

1 7 , 2 2
1 2 , 1 1
2

9.

8 , 1 1 2
, 2 2 1 ,
2 1

10.

1 , 2 , , .

11. 1 , .

12. 11 , , CVD , , CMP , , .

13. 가 1 , 가 2 , 2 , 가 1 , 2 , , , , , , , .

14. .

15. 13 , , 1 2 , .

16. 15 , 2 1 , .

17. 13 , 가 2 , 1 가 , 가 .

18. 13 , 가 1 , 2 가 , 가 .

19. 13 , 1 2 , 1 2 가 , .

20. 19 , , 2 2 , 1 1 2 , 1 .

21. 20 , , 1 1 , 2 , , 2 2 1 , .

22. 13 , 2 , , .

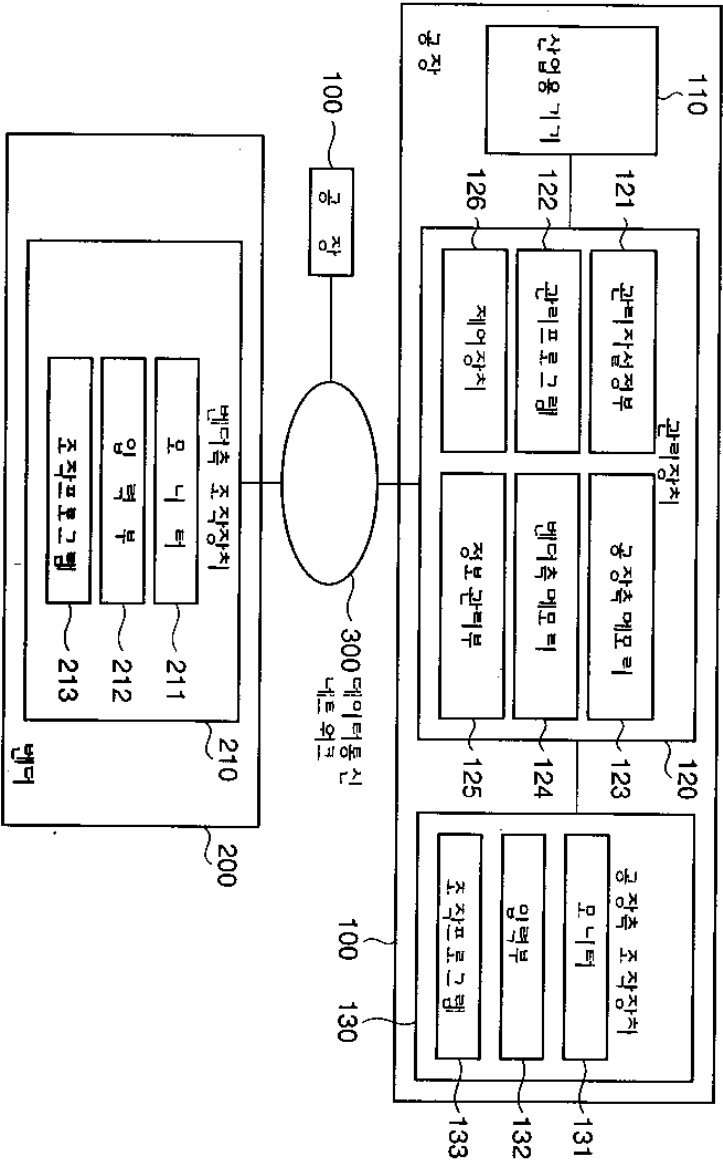
23. 13 , .

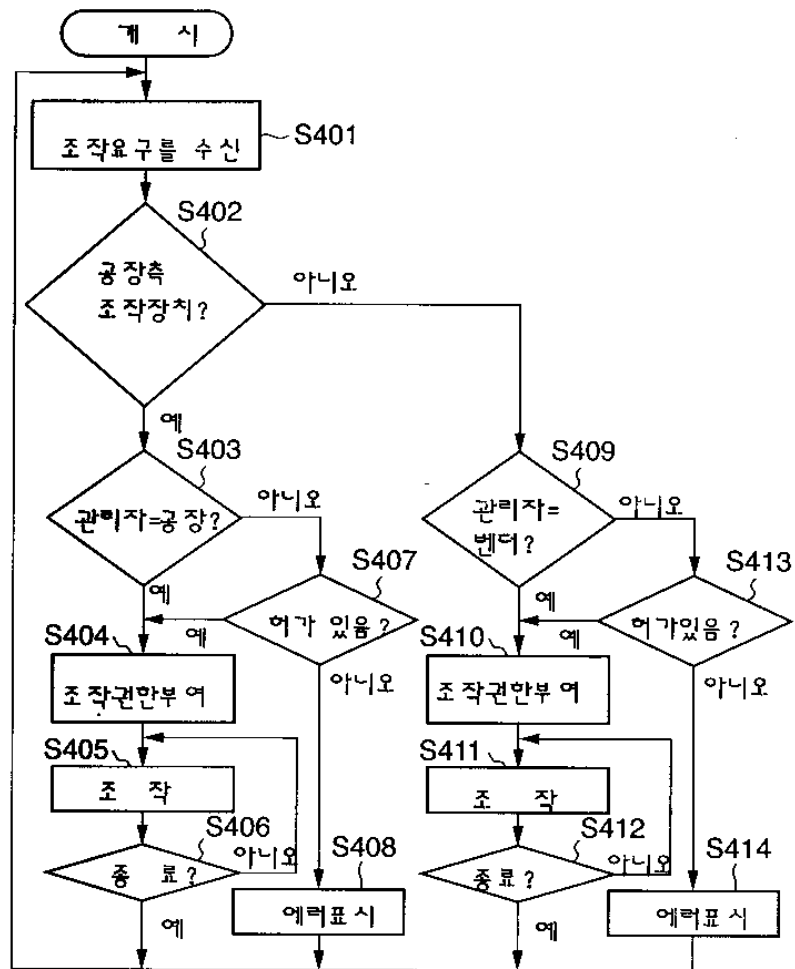
24.

23

, CVD ,

, CMP ,





3

