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(73) 가 가
 3 30 2

(72) 3 30 2 가 가

 3 30 2 가 가

 3 30 2 가 가

(74)

:

(54)

,

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

4

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

, , 가 (NA)
 , , , , NA , 가
 , , , , g i , , i
 , , , , 248nm 193nm
 , 157nm , 가 , 가
 , , , , 180nm , ,
 1/3 , , , , 1/3, 60nm
 , , , ,
 DRAM , CPU IT , , 가
 (home wireless LAN) (Bluetooth) , 24 38GHz
 LMDS(Local Multipoint Distribution Services) 77GHz
 ITS(Intelligent Transport System) MMIC(Millimeter-wave Monolithic Integrated Circuits)
 , , , ,
 , , , , W-CMP(T
 tungsten Chemical Mechanical Polishing) , Cu (Cu dual da
 mascene)
 , , , ,
 , GaAs InP P-
 HEMT(Pseudomorphic High Electron Mobility Transistor), M-HEMT(Metamorphic-HEMT) SiGe SiGeC
 HBT(Heterojunction Bipolar Transistor)가

가 COO(Cost Of Ownership) 가
가 (,) 가

(S406), (130)) (110) (S406), (S401),
(S403) 가 (200) (S406), (S407), (120),
(200) (100) (110) (S407), (S408), (120),
, (S404) (S407), (130) (110) (110), (100) 가
(130) (131) (200) (130) (110) (100),
, (200) (200) (130) (110) (100),
(S402) 가 (210) (210) (S409) (S409)
(110) (121) (S409) (200) (100), (120),
(S409) (S409) (110) (210) (110) (100),
(120) (120) (126) (210) (210) (110),
, (110) (110) (210), (211) (110),
(210) (210) (210), (211) (110),
(120), (110) (210) (130) (210),
, (110) (210) (110) (110),
(S412) (210) (110) (S412) (S401)
, (210) (110) (S412) (S401), (120),
(S409) 가 (100) (S412) (S401), (S413),
(100) (200) (110) (S413) (S413),
, (S410) (S413) (110) (120),
(210) (211) (210) (110) (100),
가 (100) (210) (110) (110),
3 (213) (210) (200) (210) (210) (S501),
(210) (120) (110) (210) (110) (300),
(S502) (S502) (210) (110) (110) (S401),
(S407) (S407) (S502) (S502) (S404), (S503),
(S503) (S503) (210) (200) (212) (120),
(300) (300) (120) (120) (110) (S405),
S504) (S504) (210) (120) (120) (300),
(S505) (S505) (210) (120) (120) (211),
(S506) (S506) (110) (110) (120) (S506),
(S506) (S506) (133) (130) (130) (S508),
4 (130) (100) (S401) (S401) (130) (130),
(S602) (S602) (S401) (S401) (130) (132),
(S413) (S413) (S602) (S602) (S410), (S603),
(S603) (S603) (130) (130) (110) (110),
603) (603) (S604) (S604) (110) (110),
(S608) (S608) (130) (100) (110) (110),
(S604) (S604) (110) (100) (110) (132),
) (120) (110) (110) (132),
(S606) (S606) (103) (120) (120) (130),
(131)

(S607) , (110)

(S607) (120) (S609)

(57)

1.

가
가
2
1
가
가

2.

3.

1 , , , 1
2

4.

3 , , ,
1 , , , 2

5.

1 , , 1 2 , 1 , 1
1 , , 1 , 2 , 1 , 1

6.

1 , , 1 , , 2 , 1
1 , , 1 , , 2 , 1 , 1

7.

1 , , 1 , , 2 , 1
1 , , 2 , 1 , , 1 , 2

8.

1 , , , 2 , 2 , , 1 , 1
1 , , , 2 , 2 , , 1 , 1

9.

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

10.

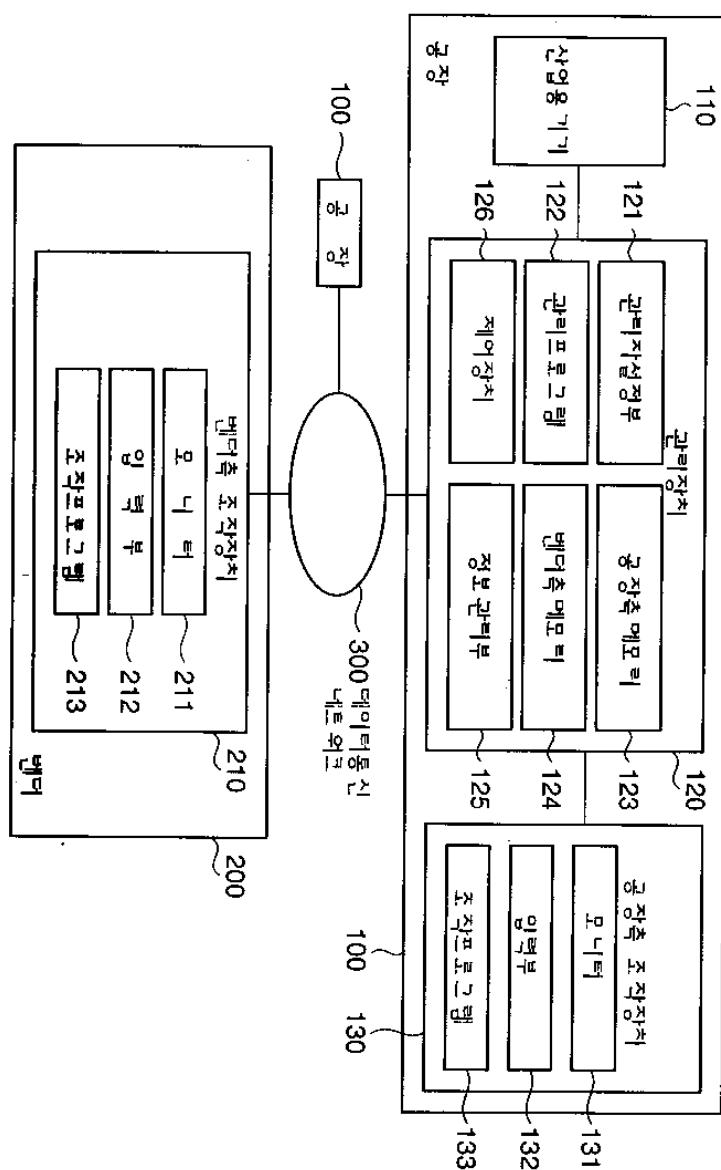
24.

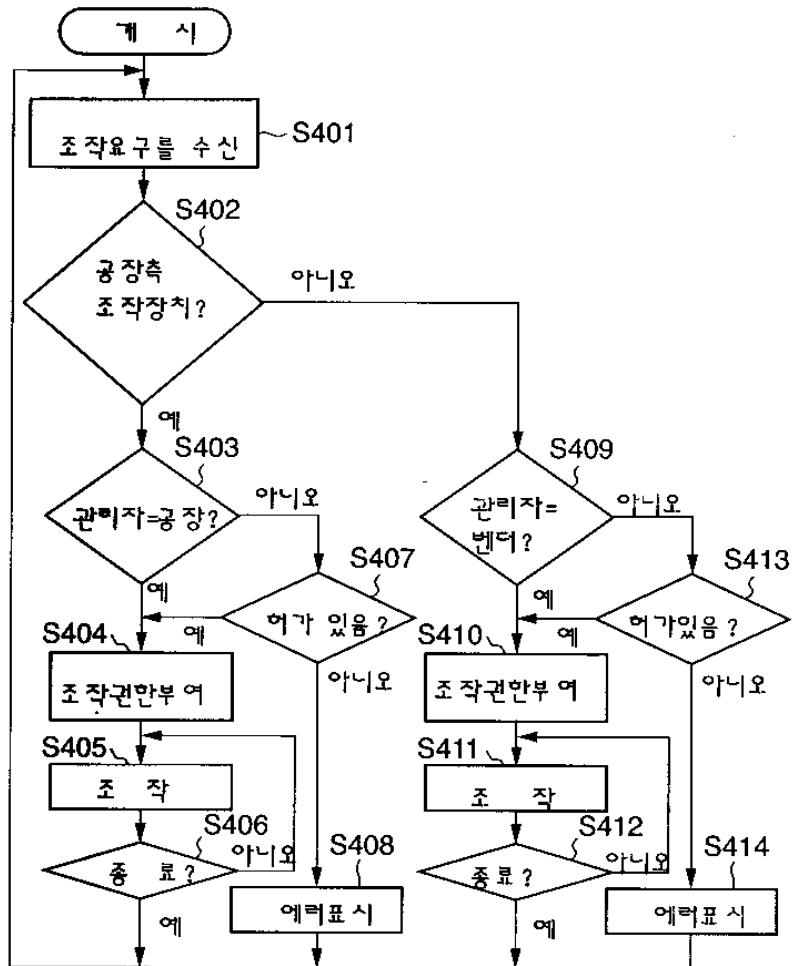
23

CVD

CMP

1





3

