

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
G06F 11/00

(11)
(43)

2002 - 0007403
2002 01 26

(21)	10 - 2001 - 7014234
(22)	2001 11 07
	2001 11 07
(86)	PCT/US2000/12479
(86)	2000 05 05

(87)	WO 2000/68791
(87)	2000 11 16

(81)

:

-

가

가 가

가

가

AP ARIPO : 가

EA :

EP :

OA OAPI : 가

(30) 60/133,131 1999 05 07 (US)

(71) _____, _____ 95008 - 0638, _____, _____ 1550

(72)				
	,	95006,	,	425
	,	95128,	,	2445
	,	94028,	,	369

(74)

⋮

(54)

가 (360) 가 (538) .
가 (360) , (544)

5

가, , / , , DSP, , , , ,

processor), 가 (programmable reconfigurable security processor),

2 ,
가 . 가
,

, 가 가
,

1 .

2 , ,
.

3 가

4A .

4B 가

5 가
(profiling) .

6A .

6B 가 .

7 가 .

8 가 .

9 .

10 .

11 .

12 .

13 .

1 (112) (120) (190)
 (secret key)
 (112) (120) (130)
 (190) (repository)(140) (140)
 (190) (150)
 (regulatory parameters)/
 (152)

(172) / (170)
 (152) (API) 가
 (VMI)(180) . VMI 가 (182)

2 (202), (204),
 / (authentication function/party)(206), (208) 가 (202)
 (202) (190) (208) 가 (202)
 (190)가 (208)
 210A). (190)가 / (206) (, 3 , TTP
), / (206) 가 (190))(210
 B). (190) (280) (210B). (208)
 (190) (capability description) (210C).
 (208)
 (,) (190) (208)
 (190) 가 (190) (210D).
 190) (190) (190) (210E). (210E).
 (208) (210E). (190)
 (210F). (210F). (billing negotiation)
 (190) 가 (210F). / (206) (210F). (190)
 가 (210F). ,
 (210G).

3 (190) 가 (350)
 (152)가 (32)
 0) (320) (320)
 API VMI (350) (350)
 (370) (360) (320)
 (350)

4A 가 (350)

(410A,410B,410C)
 (420A,420B,420C)
 AES,DES,RSA,MISTY
 IEDA (400) , 가 (350)

4B (430)
 (430) 가 (350), (440),
 (434) (440) (DSP)(442),
 (444) (434) (444), DSP(442), 가
 (350) (434) 가 (350)
 (440) 가 (350)
 () (360) (360)
 , (360) 가
 , (430) , ()
) DSP(442) 가 (350) (360)
 (444)

5 가 (350)
 (420)가 / (profiling/mapping) 가 (530). /
 (420) 가
 가 (350) (360)
 DSP(442) (444) /
 가 (542), 가 (538) (538) (
 434) /
 가 (544).

6A (360) (360) (622), (
 624), 가 가 (ALU)(636) . ALU(626)
 622) (624) (622) ALU(626)
 (610) (360) /
 가 (612) (360) / (370)

6B (360) 가 , 가
 : (642), 가 (644), 가 (646),
 가 (648) (360)

7 (MOPS 가) 7
 , 가 (350)
 (PLD) PLD가

가
가

가
가

가
가

가
가

(350)

가
가

(350)

(350)

(802,804)

(360A, 360B,360C,360D)

(802) (,) (360) (360A,360C)

(802A) (360A) (360C) (360B,360D)

(802B) (360B) (360D)

(804) (,) (360) (360A)

(804A) (360B) 가 (360A)

(360C,360D) (804B) (360D) 가

(360C) (360) (803)

(806) (360A, 360B) 가 (360)

(805)

9 (360) (360) / (rounds) (903), 가

(906), (908) (903)

/ (903) 8 (803) (902) (903)

(OP), (BC), (NS), (OF)

(OP) (BC)

가 (NS) (OF)

(906) (908)

가 (906) (902) (903)

(903) (904) 가

(906) / , XOR,

(signal swap)

(908) 8 (806) (909)

(903) (901) (908) 가

(907) (906)

(907) (908) 8 (805)

(905) 가 (906)

(360) , (903) (multiple rounds) , (903) ,
 (806) 가 . , /
 가 . ,
 , ,
 ,
 ,
 , - -
 .
 10 / (360) . 10 , (360) n -
 (1001) (1001) 8 (803)
 (1003) (1001)가 XOR,
 , , , - , , , (signal swap)
 (1001)
 (1001) (1002) (1001)
 8 (806) (1005) 가 8
 (805) (1004)

11 (1100) . (1100) (1102)
 (1104) (1102)
 . (1102)
 (1104) , ,

(1104) , (1104) 가 . 1 ,
 (1104) (1102) . 2 ,
 (1104) (1102)
 - (read - back) (1106) (1104)

(1104)가 , - (1106) (1
 102)가 가 (1104)
 (1100) (1102)
 (1108), (1102)
 가가 (1102)
 가 (1110), (1102) (1
 104) (1112)

12 (1104) (1104)
 (1202) (1204) (1202) -
 (1106) 가 (1202) , -
 (1106) (1102)(11)
 (1202) , (1204) (1106)
 (1106) (1204)가 , (1202)
 (1202) , (1404)
 , (1108)
 , 가 (1110)
 (1102) (1204)가 , (1102)
 (1202) (1102) (1112)
 , (1104) 가 (1110) (11
 04)가 , 가 가 (1110) ,
 (1102)

13
 2). (130
 / 가 (1306), (1304).
 / 가 (1308).
 D가 (1310). , (1306), PL
 가

가

가

(57)

1.

가 (programmable reconfigurable) ,

가 ;

가

,
 .

2.

1 ,

.

3.

1 ,

.

4.

1 ,

, 가 ,

.

5.

1 ,

.

6.

5 ,

.

7.

,

;

가 (authorized configuration)

,

가

,

.

8.

7 ,

.

9.

8 ,

가

.

10.

8 ,

가

.

11.

,

;

가 (authorized operation)

,

가

,

.

12.

11 ,

.

13.

12 ,

가

.

14.

12 ,

가

.

15.

,

;

;

가

가 , ;

,

가

.

16.

15 ,

.

17.

15 ,

가

.

18.

15 , .

19.

15 , 가 .

20.

,

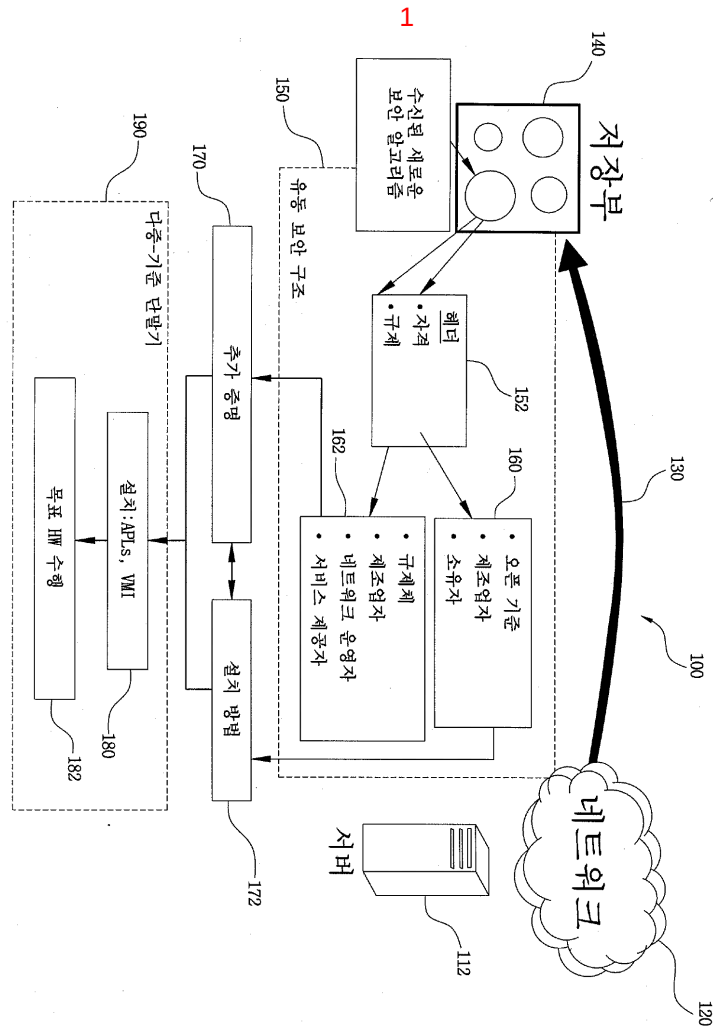
;

(regulatory information) ;

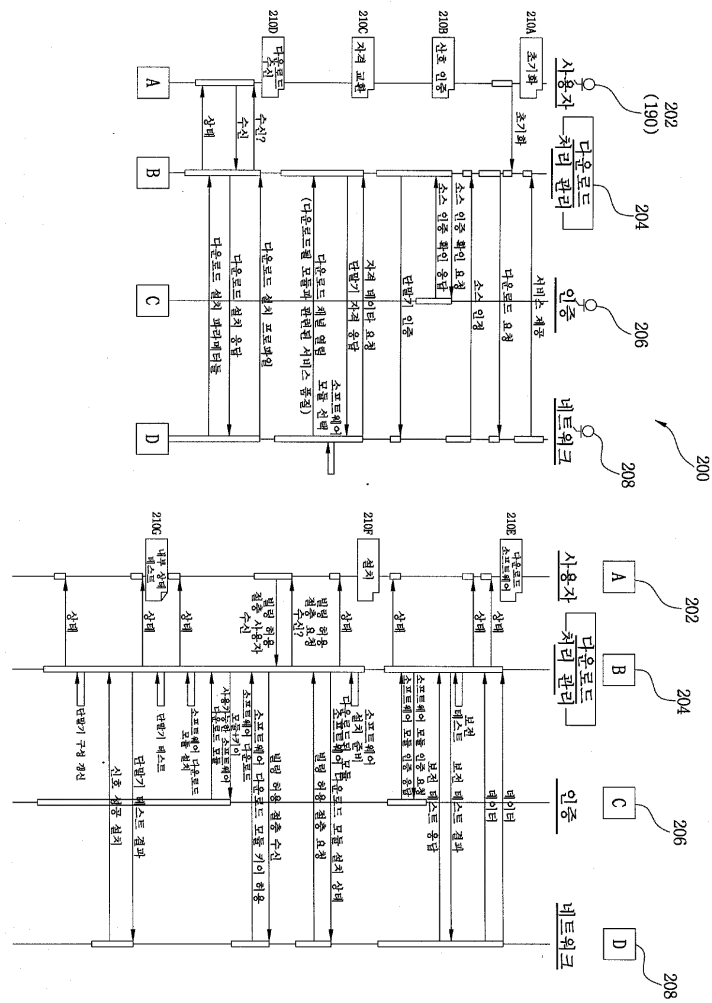
;

;

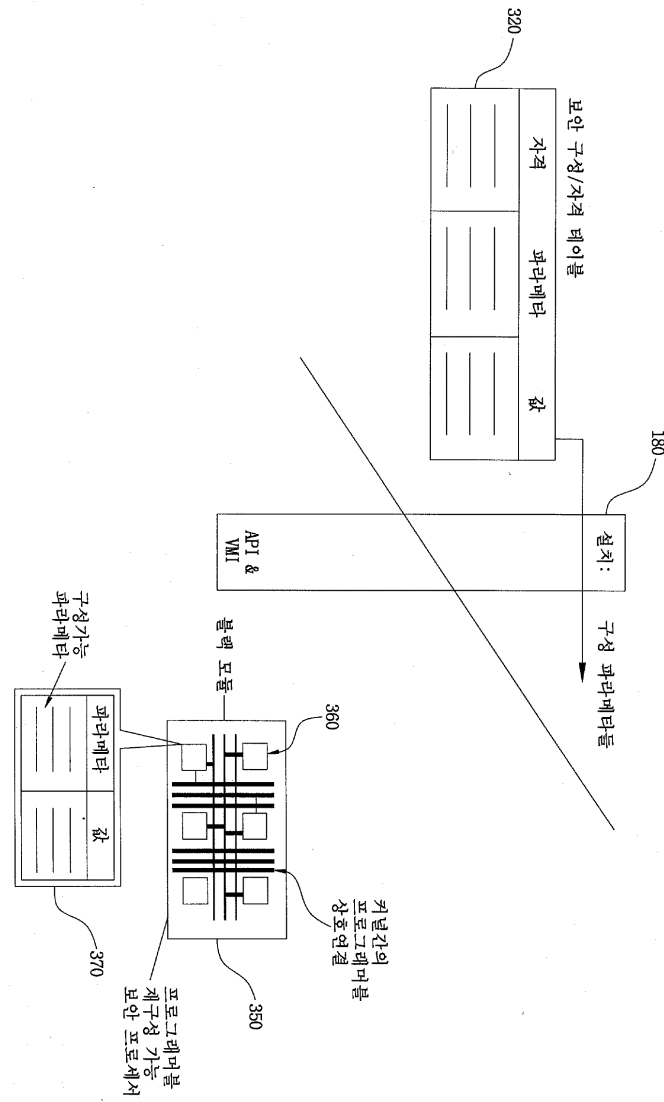
.



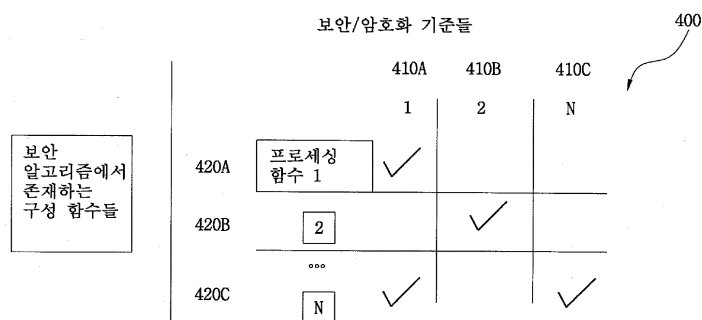
2



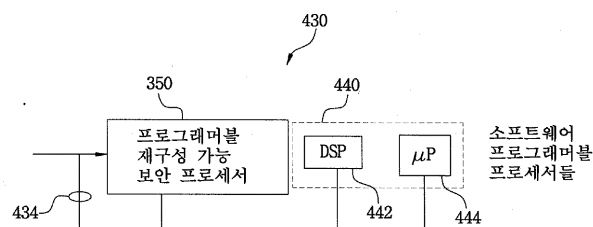
3



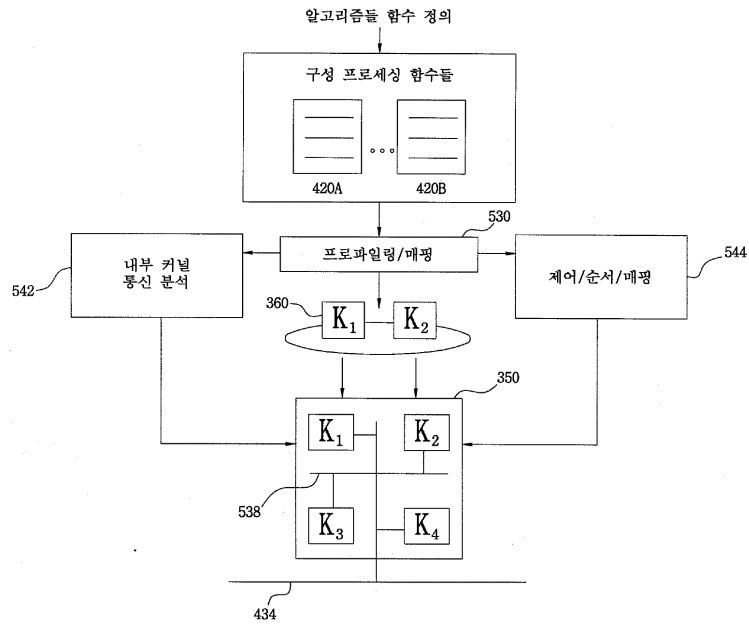
4a



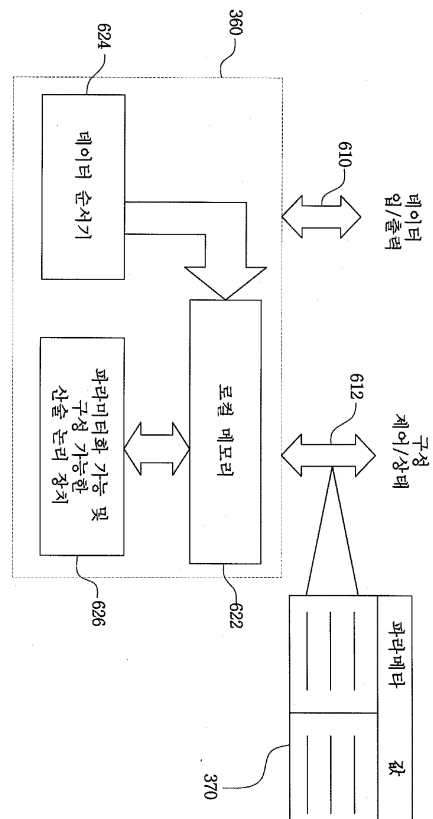
4b



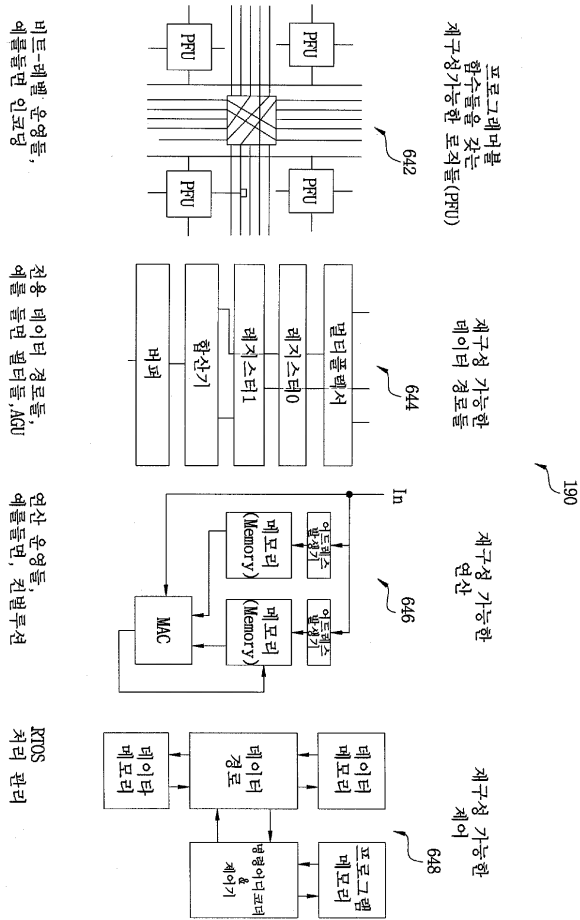
5



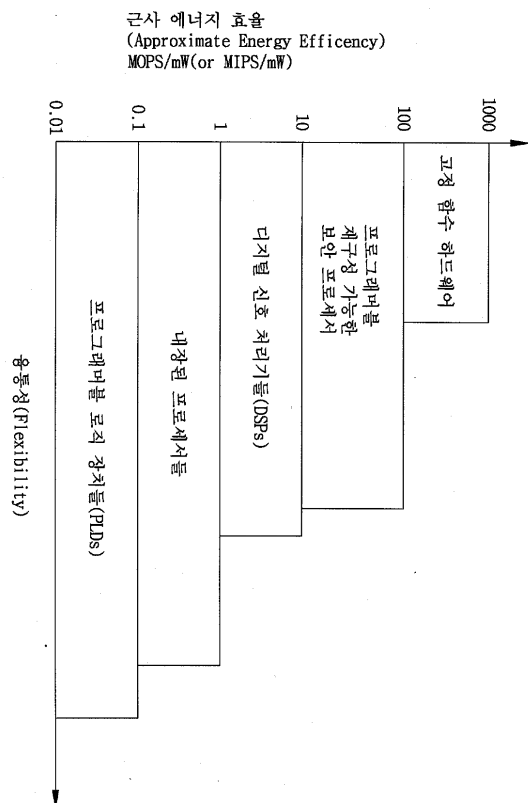
6a



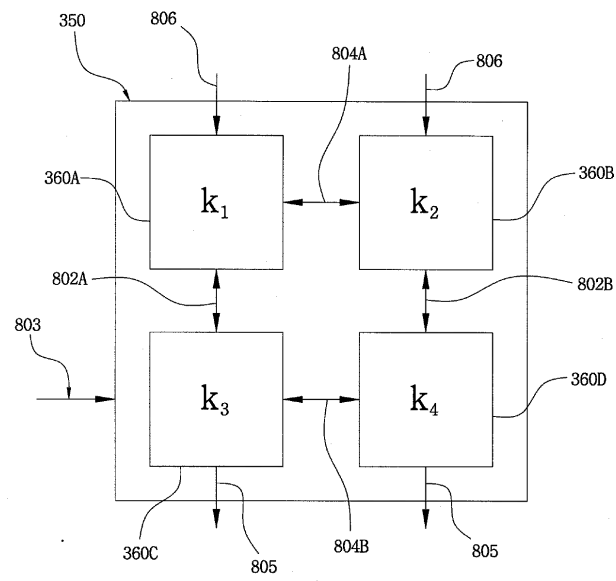
6b



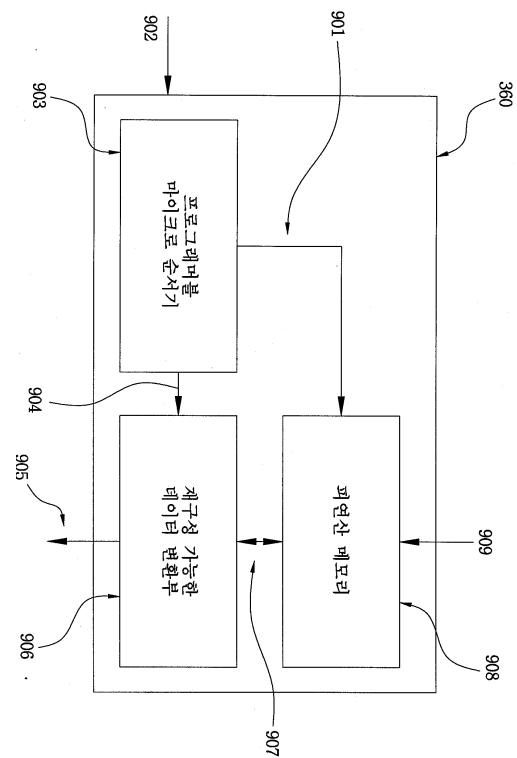
7



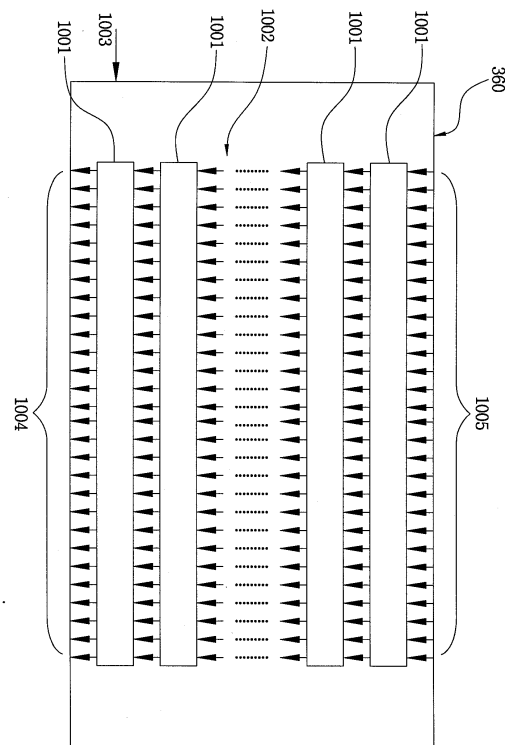
8



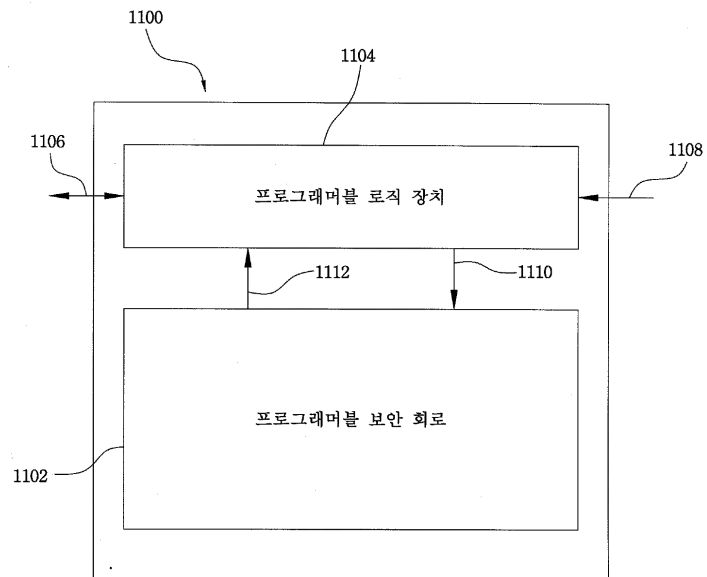
9



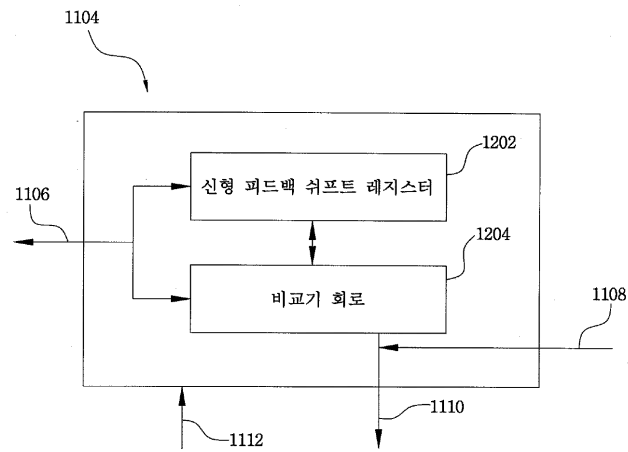
10



11



12



13

