

(19) (KR)
(12) (B1)

(21)	10-2000-7002387	(65)	2001-0023733
(22)	2000 03 06	(43)	2001 03 26
	2000 03 06		
(86)	PCT/US1998/14858	(87)	WO 1999/13613
(86)	1998 07 17	(87)	1999 03 18

(30) 08/924,740 1997 09 05 (US)

(73) 2200

(72) 97201 1438

97116 7155

85284 108 1101

85226 3741

97225 6995

97116

12th

2218

97008

12120

(74)

:

(54)

(obfuscated)

가

, 1 2

1 2

1 2

1 2

(154).

6

(system security)

(tamper resistant)

(unattended authorization)

(basic integrity)

가

가

가

가

가

가

가

가

(162) . 가 , GOC (162)
 (seed) (164) , , , GOC (pseudo random numbers)
 가
 . 가 , 가
 8 , , (172) (171) (172)
 , YUV AC3 (172)
 (173) (172) - (175) (174,176,178,180) (175) (174,17
 6,178,180) , - (175) (174,176,178,180) , 2
 - (175) (170) 가
 , (175) (174,176,178,180)
 (173) (172) (17) (172)
 2) (174) (174) (174)
 (174) (180) , GOC , GOC ,
 , GOC (170)
 , (172) (170) (170)
 (170) (176) (172) (170) (176) (176)
 (180) , , , , , (176)
 , GOC , GOC ,
 , GOC (170)
 , (172) (172) (172)
 (178) (180) (170) (178) (178)
 , , , , , (178)
 , GOC , , , , , (178)
 , GO
 C , , , , , , (170)
 , (172) (180) (180) (180)
 (170) (170) (170)

(180)

GOC
, GOC

, GOC

, (170) 가 " " " (170)

, , , (174), (176) 가 ,

9
 200) (202), (206), (206), I/O (210) I/O (220), (210,22
 0) I/O (212) (210) (208) (206), (204) 가 , I/O (210,22
 O (210) (214) (216) 가 , (216)
 (218) 가 I/O (220) (222), (224) DVD_

ROM(226) (214) (202) (222) (200)

가

가

(57)

1.

(monitor tampering)
(obfuscated)

(inter-cell dependent mutation process)

2.

1 , 가

3.

2 ,

4.

5.
1 ,

6.

5

7.

6

8.

(monitor tampering)

(a)

- ;

(b)

(c)

(b)

(b)

(a)

9.

8

(b)

10.

9

(b)

11.

12.

8

(b)

13.

12

(b)

14.

13

(b)

15.

16.

17.

18.

19.

(monitor tampering)

(obfuscated)

20.

21.

19

22.

21

23.

(monitor tampering)

(a)

(b)

(c)

(b)

(a)

24.

25.

23

(b)

26.

25

(b)

27.

1 (anti-observation)
(obfuscated)

1 2

;

1 2

1 2

1

2

28.

29.

27

2 (anti-observation)
3

2 3
(anti-observation)

3

30.

29

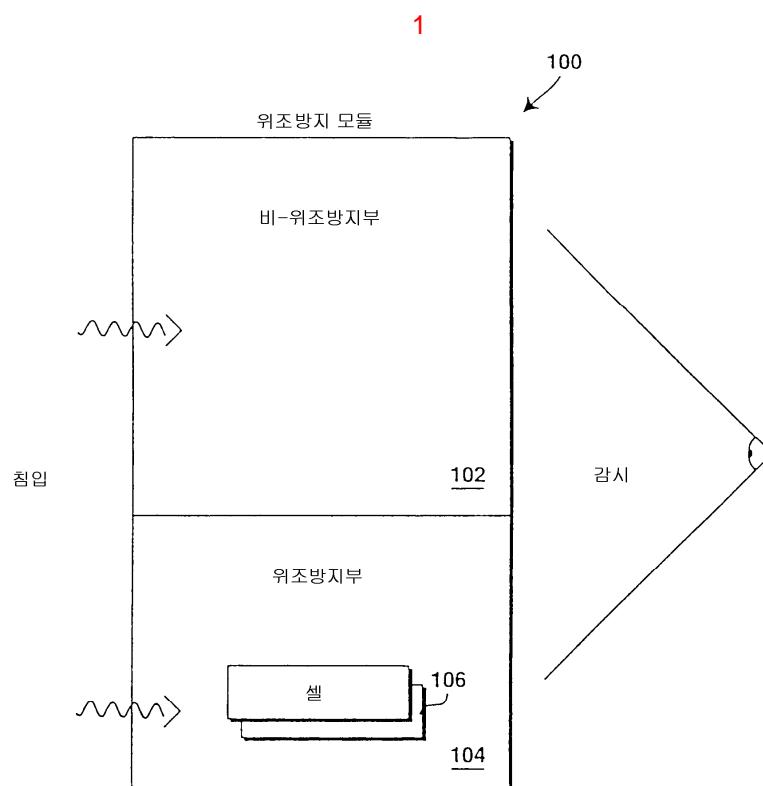
1

2

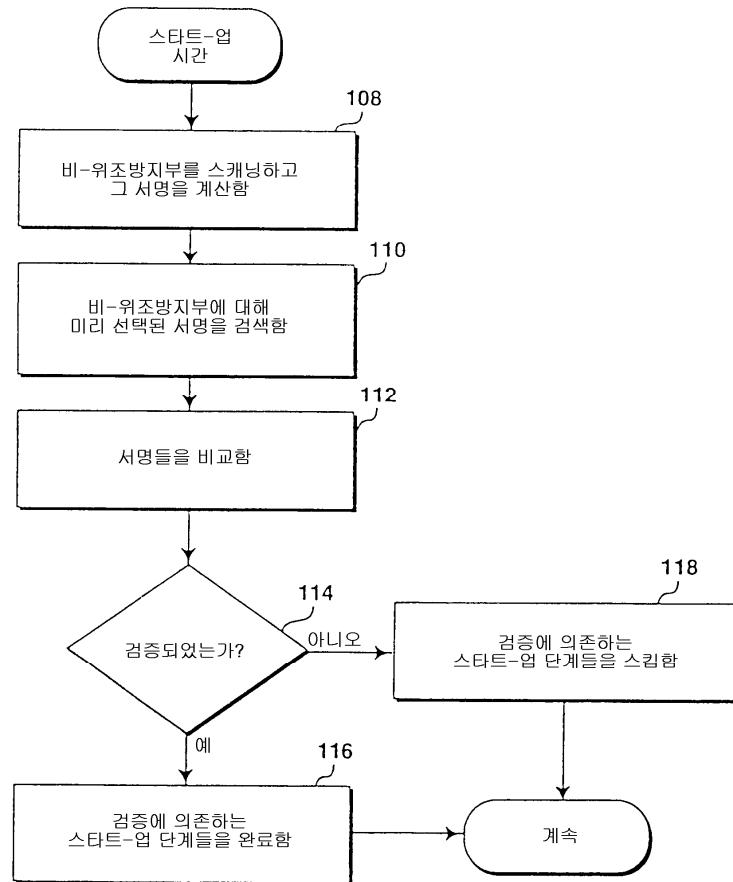
3

31.

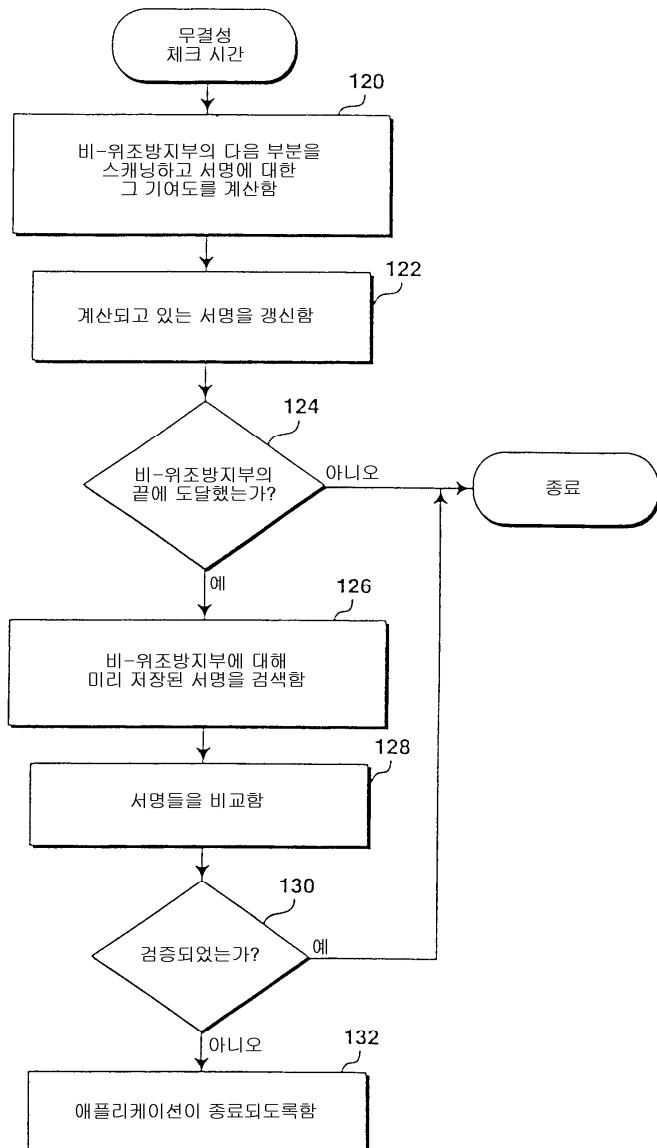
32.



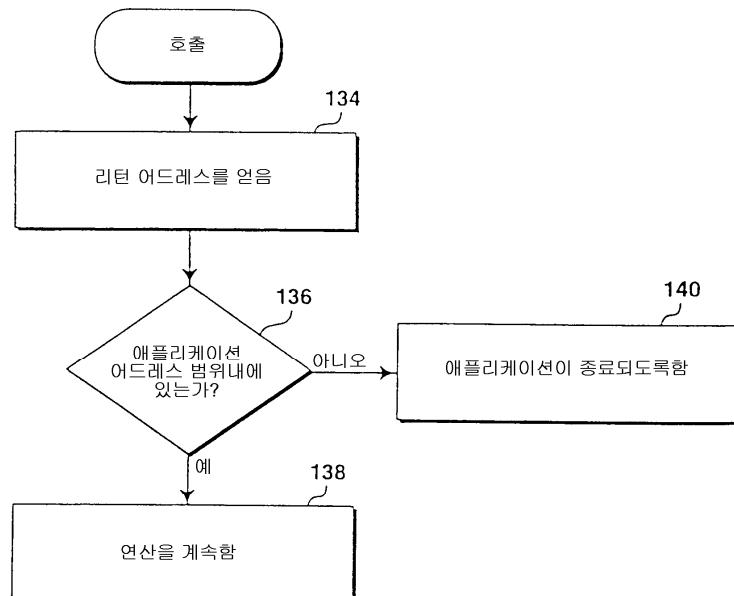
2



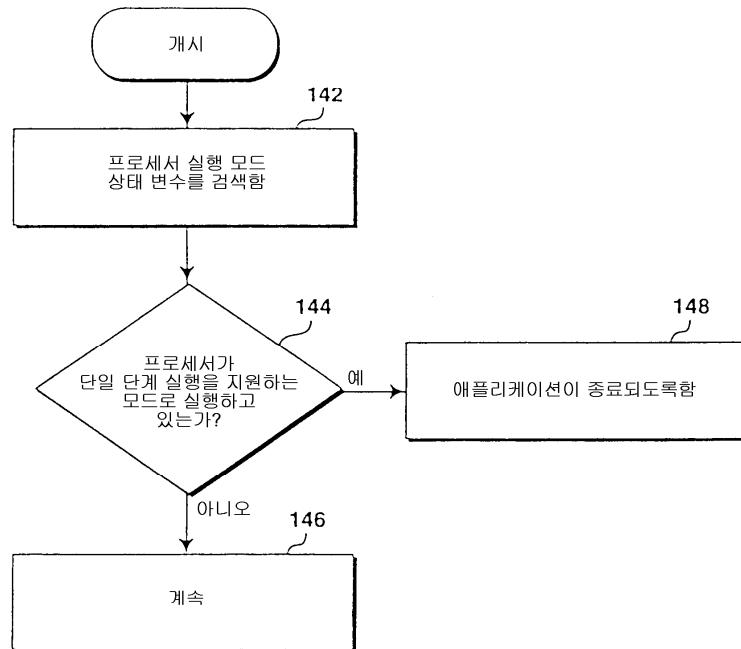
3



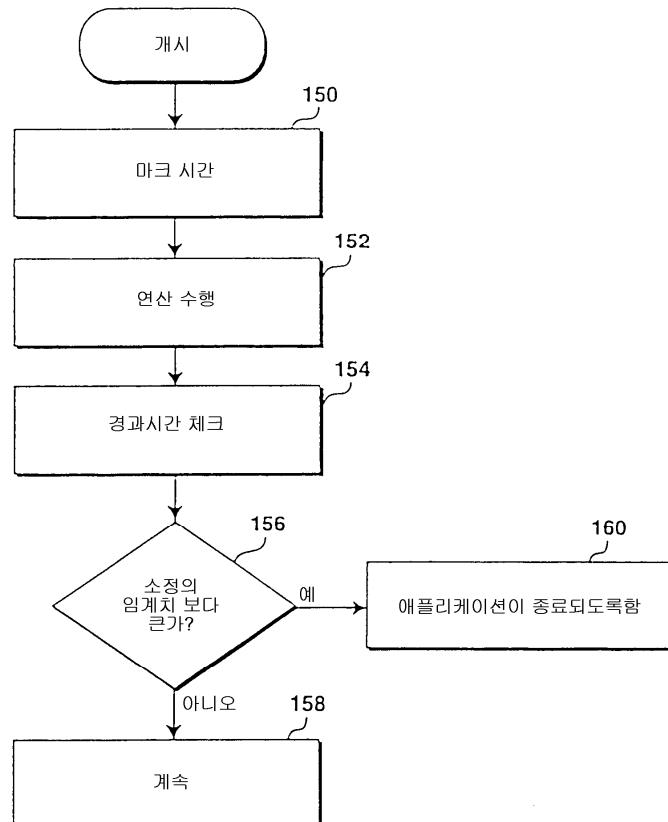
4



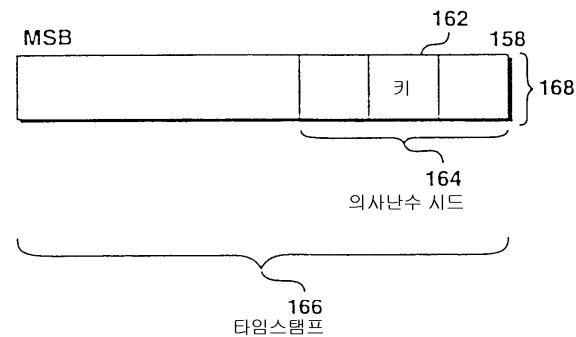
5



6



7



8

