





20 : 23 :

24 :

[ ]

uminescent screens) (CRTs) (interrogation means) CRT (cathodol

(black surround) 가 (black matrix) (contr  
ast)  
(darking coating)

가 " (beamlets)"  
가 가

가  
(mate) (mating)

가

가 ( " 가 " ),

4,902,257

4,973,280

가

07/710,738

07/710 738

, a)

, b)

, c)

, d)

, e)

f)

가

" (registration)"

가

가

710,738

710,738

CRT

- (sub - mil)

가

가

2

가

가

가

4,834,686 ,

가

4,525,735 , 4,556,902 , 4,665,429 , 4,684,982 , 4,717,955 ,

4,980,570 ,

4,711,579 ,

4,989,082 .

(face panel module) (mask module)  
(transport shuttle)

CRT

가 CRT

가

가

1 (12) (FTM) (CRT)(10) (14)  
(18) (16) (12) (16) (tension)  
(20)  
(24 r, g, b) (14) 가 " (23)"  
(20) (register) . CRT(10)

2 07/710,739  
(12) (tensioning) (26), (12) (18) ( )  
(registry), (16) (12) (op  
tical interrogation system) (12) (1049) 2  
(1009, 1011) (1069)

[ ]

2 (1003) , 3 (12) (12)  
(1019) (1017) 1 (1015)  
(12) 1 (1015) (1025) LED (1021)  
2 (1023) (1029) 2 (1023)  
ry balls)(1027a, 1026b, 1027c) 120. 3 (regist

2 (1031) 2 (1023) ,  
 (1007) (in - gross module positioning) (1033)  
 , .  
 , (1007) , (12) (1003)  
 . '738 2 (1035) (1003)  
 (1007) , 1 (gross lifter) L1 .  
 1 L1 (1003) (1033)  
 1 L1 (1038) (1036) ,  
 (1003) (1007) .  
 (1041) , (1039) (1037a) (1037b)  
 (1032a, 1032b) (1037a, 10  
 37b, 1032a, 1032b) (1007)  
 (1003)  
 (1007) (1003)  
 가 . (1041) (1040) 2 L2 3 (1040)  
 , 3 (1040) (1042) 2 (1023) . (104  
 2) - (1044) . (104)  
 (1046) 2 , (1041) 3 2 (1040, 1023)  
 (1034) . - (1044) 2 (1023)  
 2 (1046) (1034) 가 , 1  
 2 (1015, 1023) (1007) ,  
 (1027a, 1027b, 1027c) (1047) (1045) 3 V  
 (1043a, 1043b, 1043c)( 4 ) .  
 , (12) V - (1043a, 1043b, 1043c) (1027a, 1027b, 1027c) ,  
 (1017) (1048)  
 . (1003) .  
 , (1049) (1005) . (1049)  
 , , , 10a .  
 2 , (1049) (1005) 1 (1055)  
 V - (1053 a,b,c)( 5 ) (1051) 가 ,  
 .  
 1 (1055) (in - gross movement)  
 2 (1057) 가 .  
 2 (1057) , 2 (1029) (1027 a,b,c)  
 (1031) (1059 a,b,c) (1061) ,  
 1 2 (1055,1057) (1054) ,  
 (1003) (1032c, 1032d) .

(1063 a,b,c)( 6 ) (1011) (1059 a,b,c) (1065) 3 V -

(1049) 1 (1055) (1011) 4 (1011) (1005) (1067 a,b,c,d) ,  
 가 4 (60, 10a ) (10)

70) / (1069) / LED ( ) (type of stretchng)

(1048) (1007) (1009) (1085) (1009) 8 (1083)

2 1 (1055) , 2 (1057) (1007) (1005) (1049) (1059 a,b,c) 2  
 (1057) (1071 a,b,c) 가 1 (1055)( 7 )

(1073 a,b,c) 2 (1057) (1075) 2 (1057) (1076) 1 (1055) (1077)  
 (1076) (1073 a,b,c) (1076) - 1 (105)  
 5) 2 (1057) (1076) (1076)  
 (1075) (thrust) 1 (1055)  
 (1077) 1 (1055)  
 1 2 (1081)

2 (1057) (1011) (1049)  
 (1069) (1073 a,b,c)

1 (1055)

1 (1055)

(1005) (1049) (1007) (1005) (1003) (1035)  
 (1007) (1005) (1003)  
 (gross) (fine)  
 (1069) (1011) (1083)  
 (1089)

(12) (1049) (34) "

ple nulling) 가 가 (sam

가

가

9 (1009) 3x3 (30) 9 (34)

(33) (33) (1083) (1009)

(1007) 2 (1083) (1083)

(1085 a - c)

6 (1011) (46)

4 (1067a - 1067d), (46)

(1083a - 1083d), (1070), 4 (1

011) (1063) (1063a - 1063c) 2 (1005)

(1059) (1011)

4 , 9 , 4 -

가

10a (18) (16) (60)

10b (60) (18) (20) (60)

CRT (20)( 1 ) (2001) - (16)

(1067)( 2 ) (62)

11 (34) (66) 가 2 (72)

" (frame grabber)"(65)

(96)



(96) (seratches) (2001)  
 (2009) (2001) (2005) / (2007)  
 (62) (60) 가 (60)  
 (2007) 가 (2009) (specular reflection)  
 (antiglare) 4,884,00  
 6 가 (mask support rails)

11 (34)  
 (66) (65) (65) 2 가  
 (66) 가 (68) (67)  
 50 가 (71) (70) (66) (70) (72)  
 가 , 50 (71) 2  
 (gray) - (frame grabbers)  
 가 가

50 13 (74)  
 (78) (74) (80) (square) (76)  
 (84) (74)가 (wave slope) 50 (76) (82) (84)  
 , 50 (71) 2

11 (90) / (FiFo)  
 가 (88) . OKI MSM51422RS (98) , 2 (72)  
 , 0 = - ) (light) - (no light) ( , 1 =  
 (88) - 2 [ (pixel map) ]  
 (96) (97) , I/O (94)

I/O (94) (95) (96)  
 (96)

(98) I/O (94) (96) (88)

12 (light)/ (dark) (96) (91) I/O (94) (95) (93)

12 , 256 256 (93) (95) ,  
P " (91) (Exclusive OR)" P+1 /  
"1" 가 "0" 가

1, 0 AND

14 가 (100) (102)  
(106) (102) (104) 가 (104)  
Y . X (104)

( , )

(104) (96) 가 (dark - light) (light - dark)  
(chord) - (dark - light) - (light - dark)  
(1 0) (78) (80 - 85) (82)(  
) 10b (85)( ) (chord)  
, 1 0 ( / ) , 80 - 81, 82 - 83, 84 - 85  
(chord length)

, 1 0 가 가  
) ( 가

(99) 가 XY

15 (welding) , (rails)(16) , (50a - d)( 4 )가 -  
 (cutting tracks) , 2 (16a,16b) -  
 가 (110)( 16 ) , 가 (78)  
 4,891,546 가 45 (108) (12)  
 (16a,b) 가 16 , (110) ,  
 ( 1 ) (112) (114) 가 (110) (16a,b) (18)

가 ,

CRT

( 가 )

4,871,415

(57)

1.

CRT (65) CRT (12,1049) (workpiece) (26) , (1009,1011),  
 (field of view) (65) 가 ,  
 (96), (fields of view) (1  
 00) (96) , CRT

2.

1 , (68) ,  
 CRT

3.

1 2 , (1073) (registry) (96) CRT (1073)  
CRT (1089) ,

4.

CRT (shadow mask) (screened faceplate)

가 , -

5.

4 , ,

6.

5 , ,

7.

5 6 , ,

8.

4 , 2 가 , 50

9.

4 , 2 , 2

10.

CRT ,

CRT ,

가

11.

CRT

CRT

, CRT

12.

CRT

, CRT

13.

12

, CRT

14.

13

(objects)

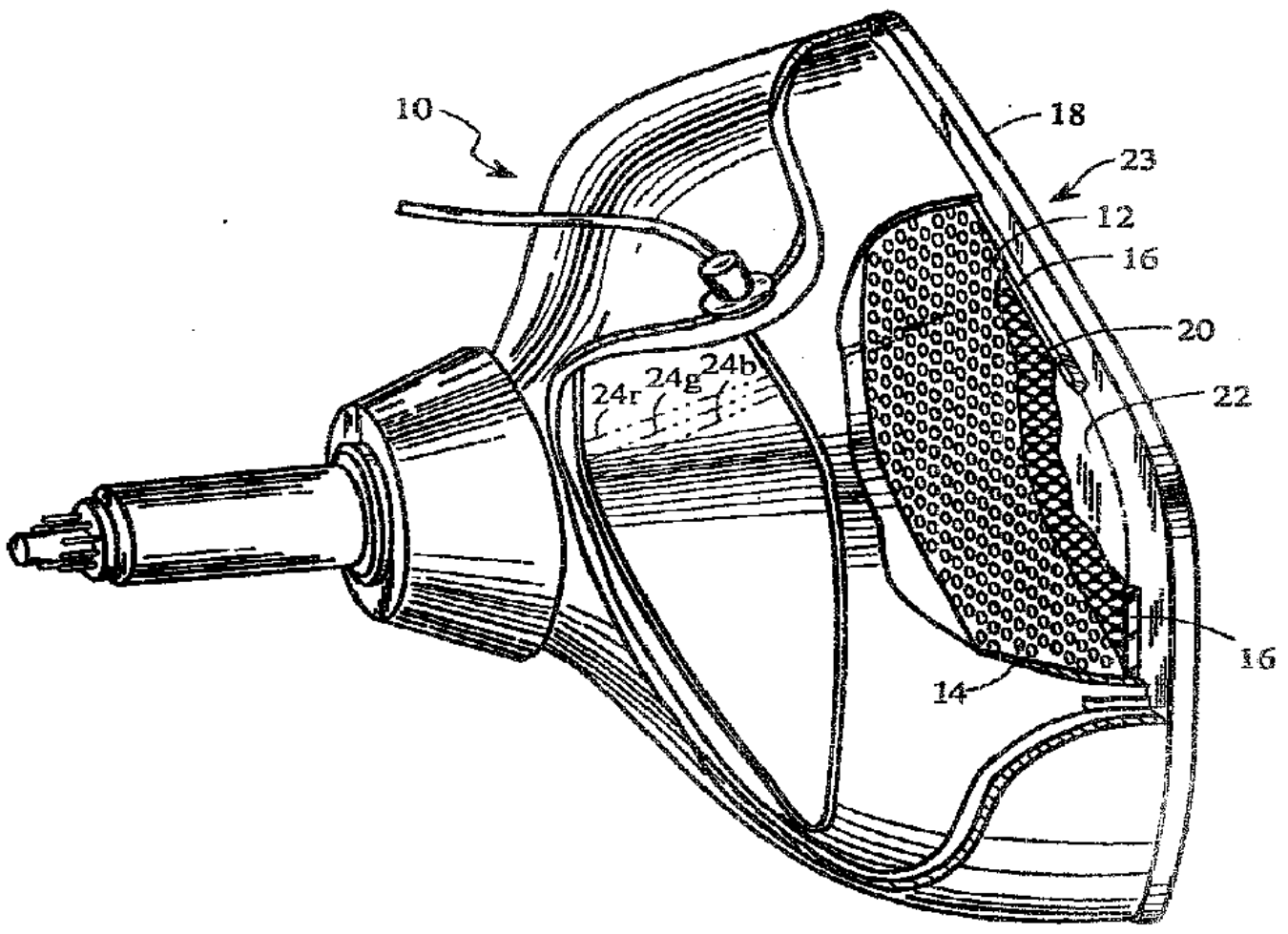
, CRT

15.

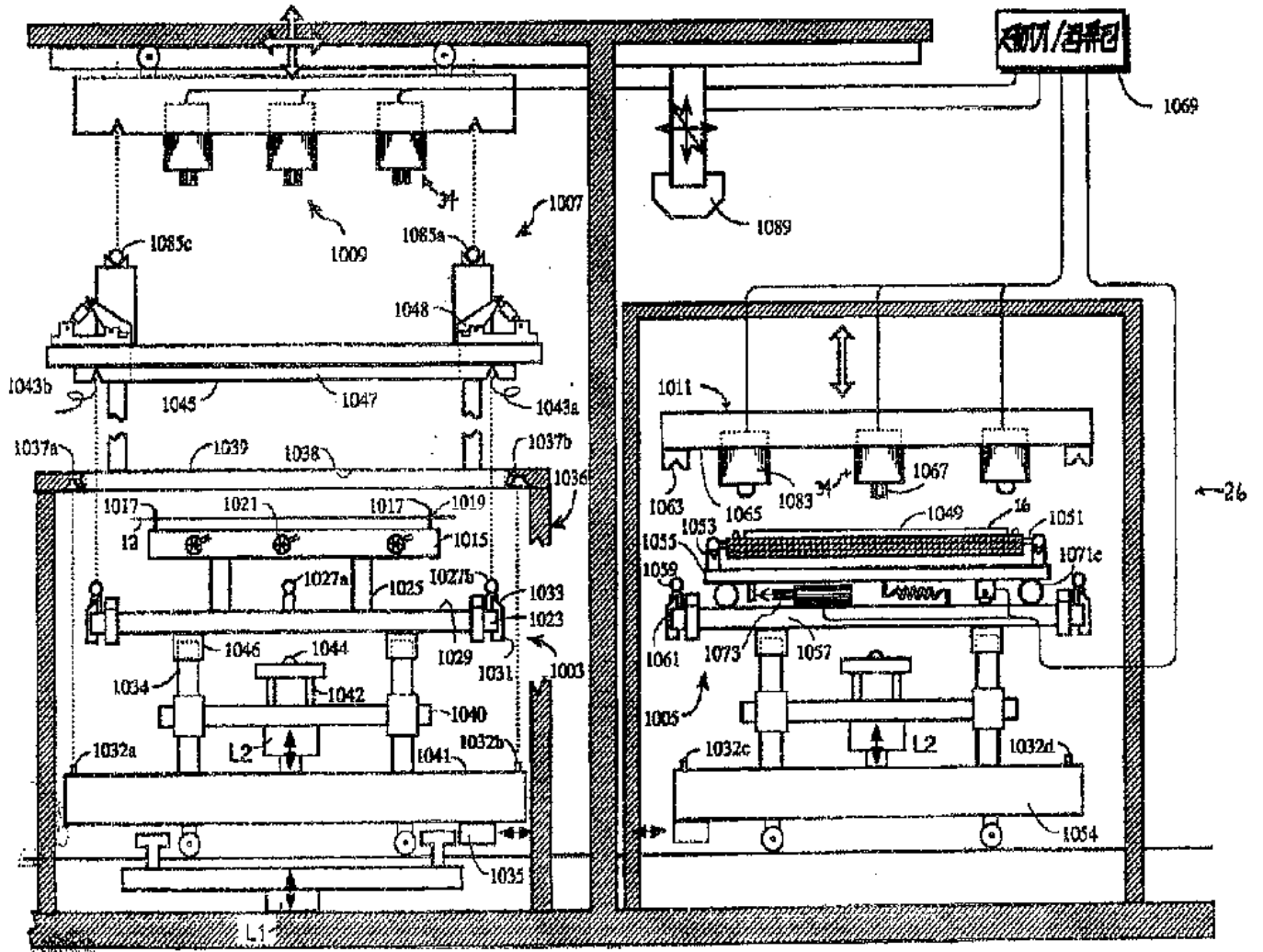
12

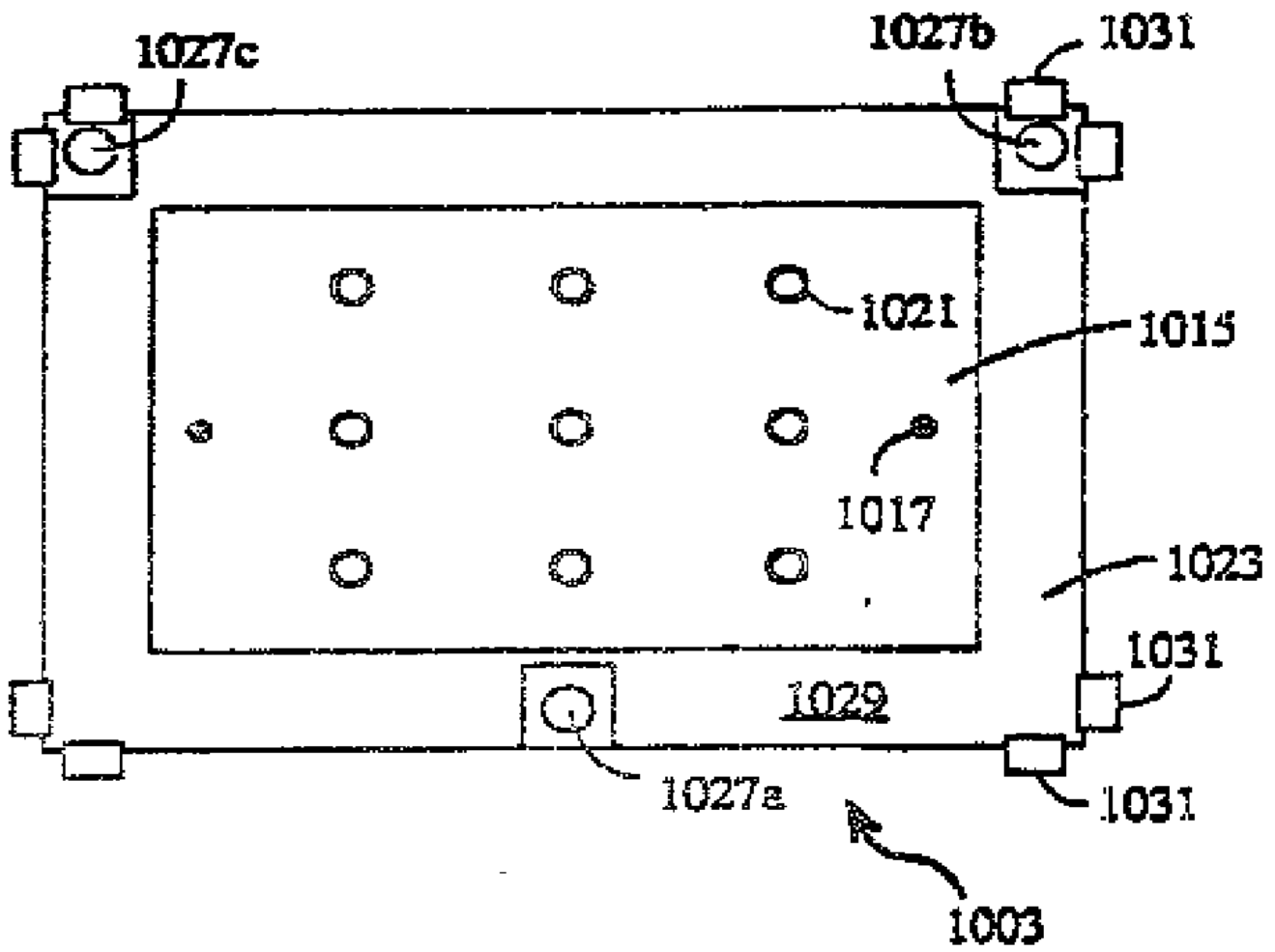
, CRT

1

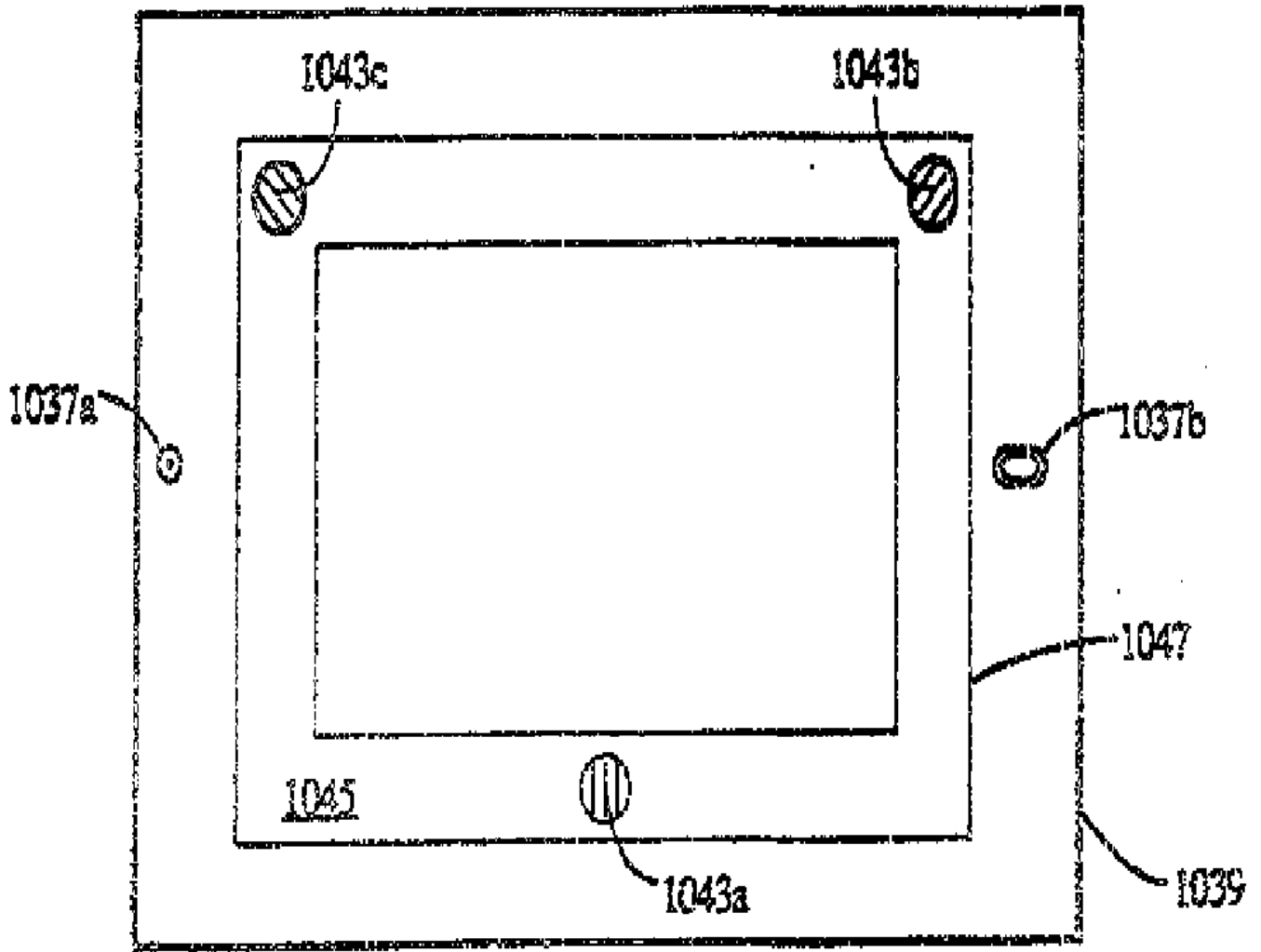


2

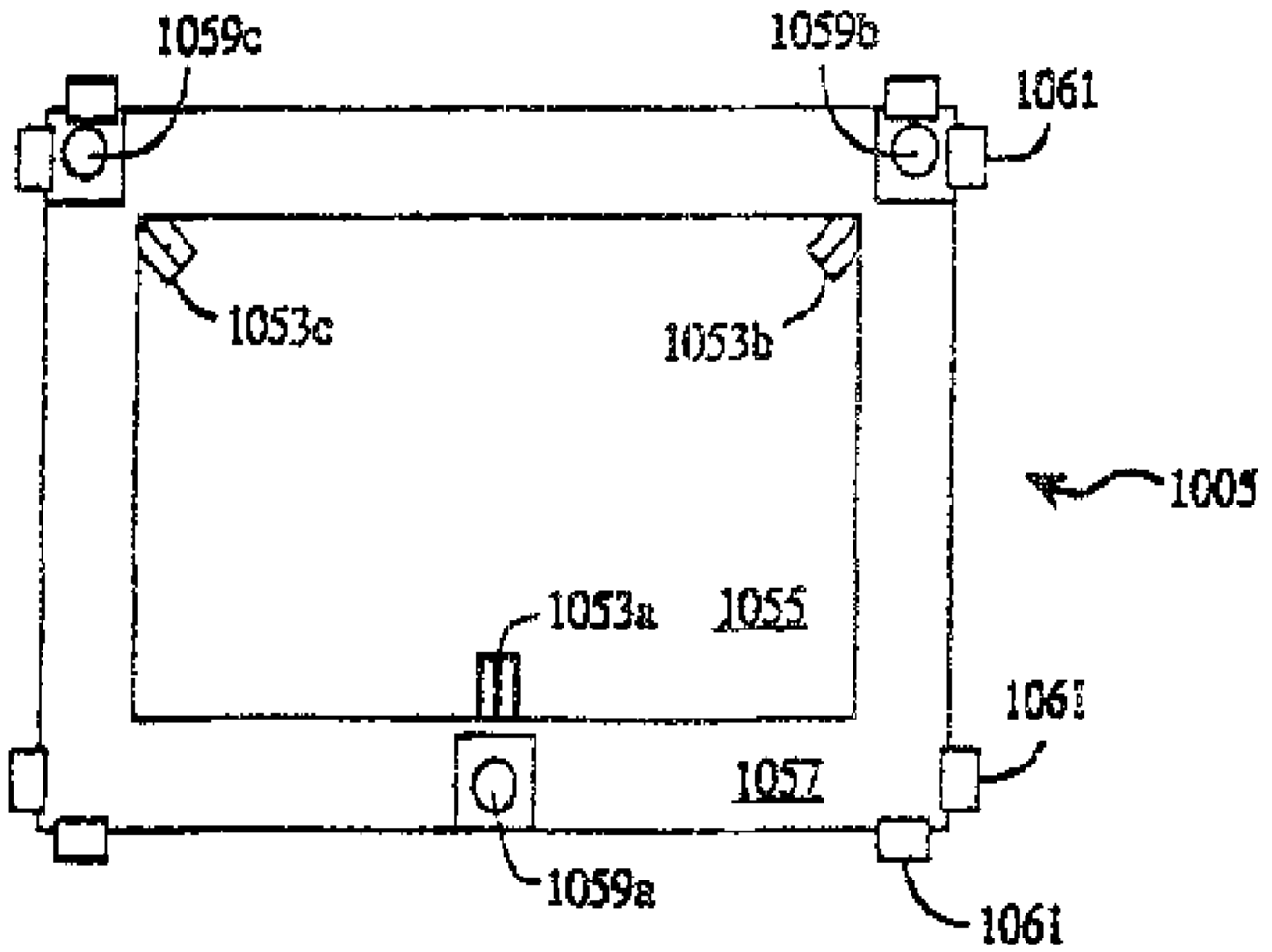




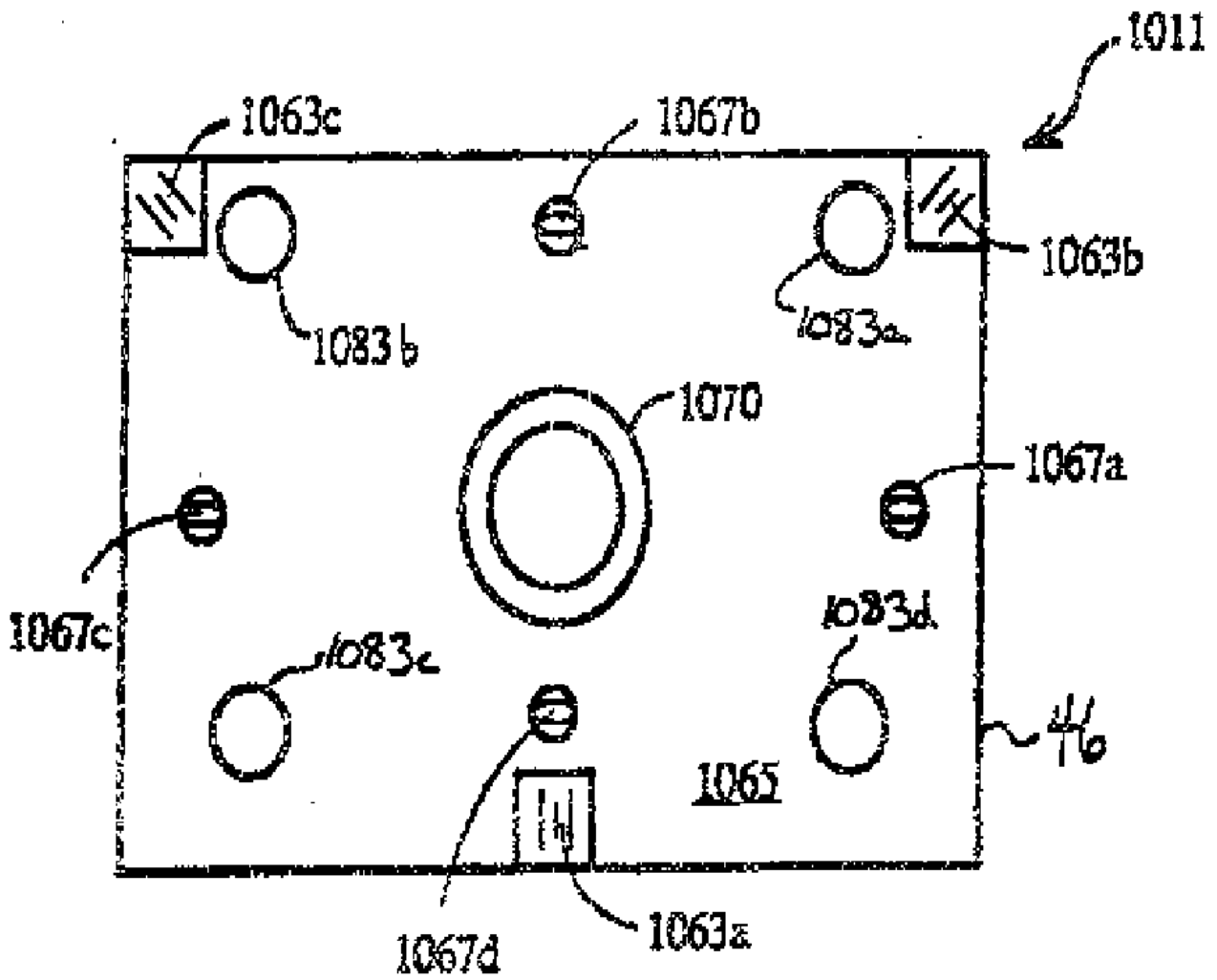


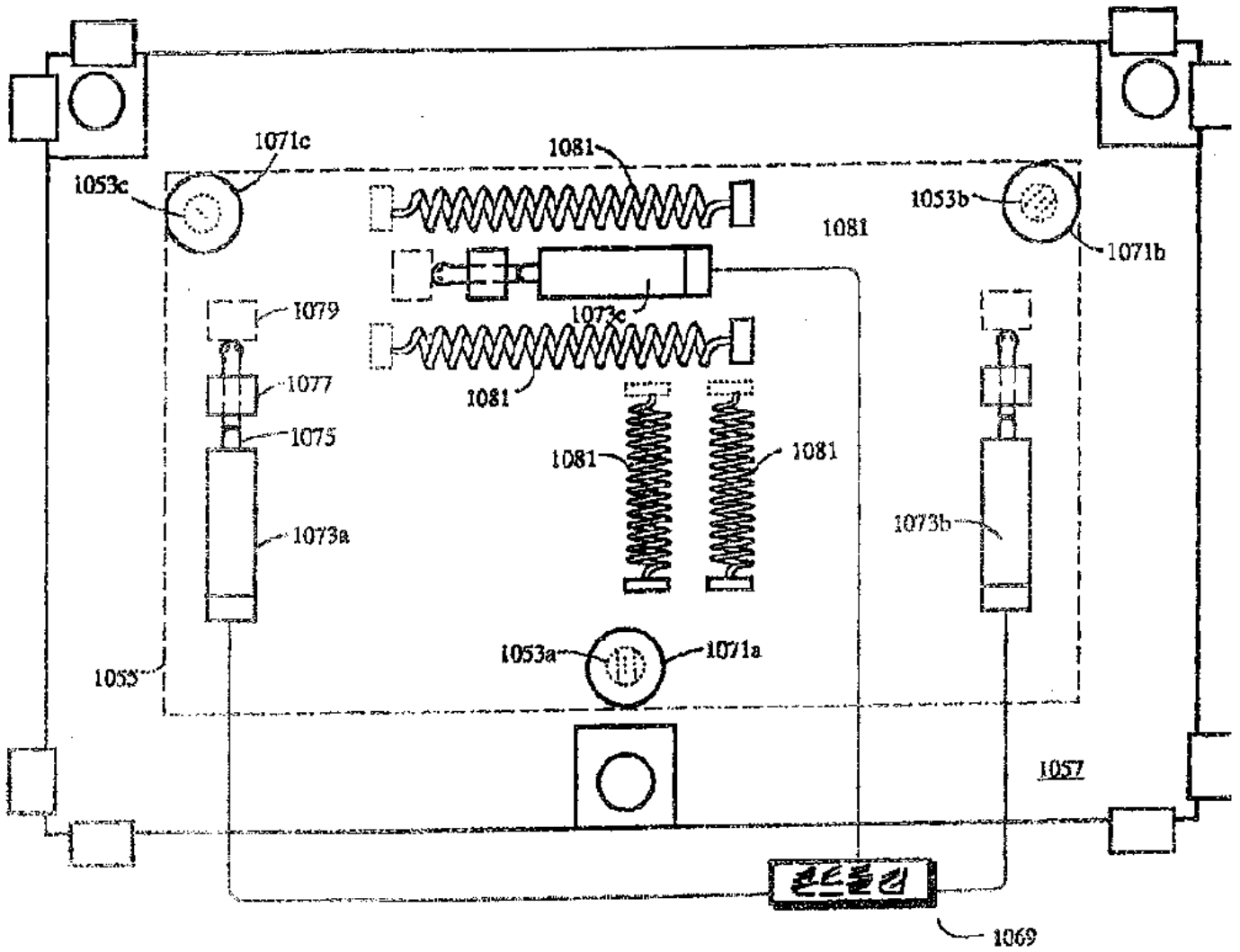


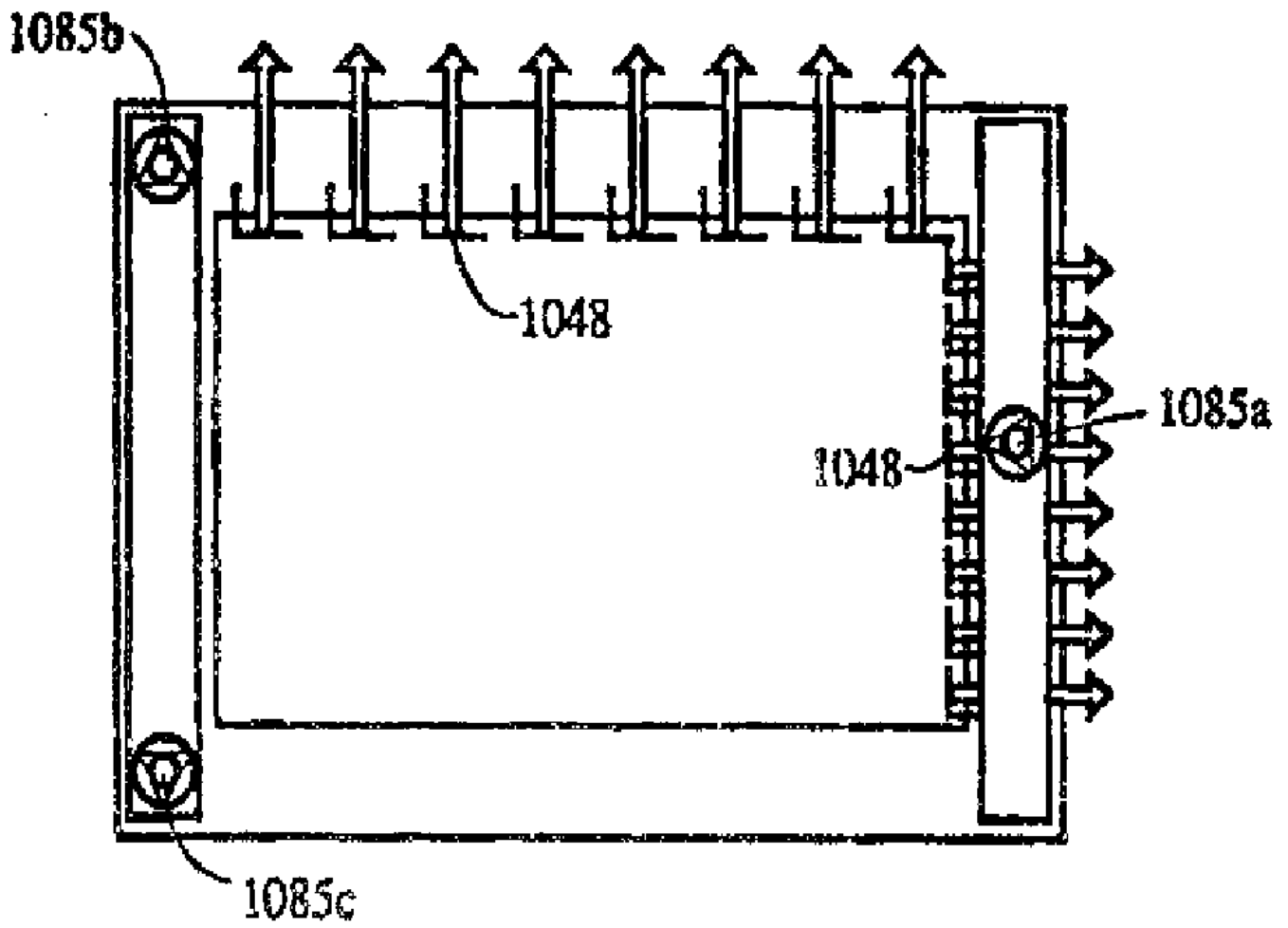
5

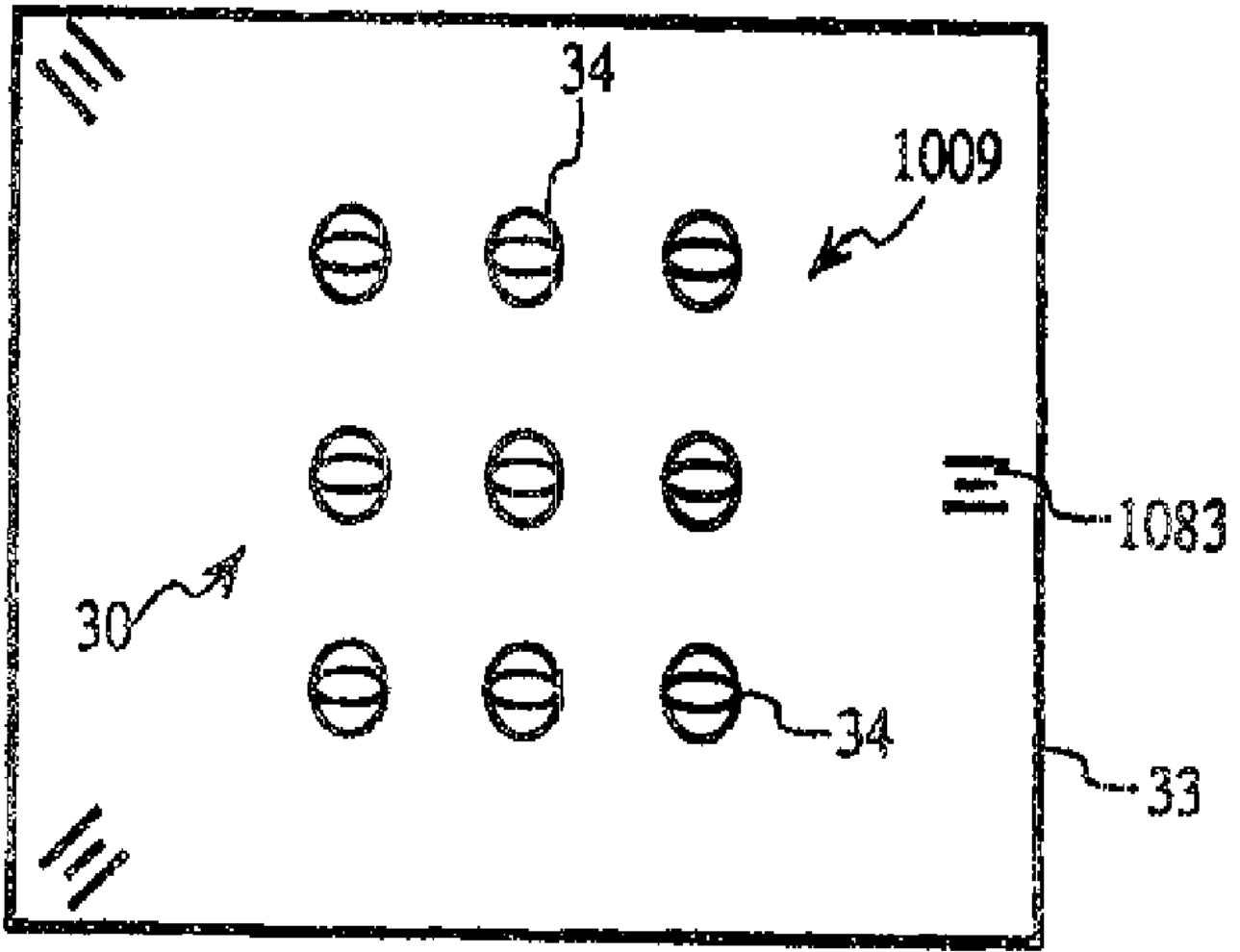


6

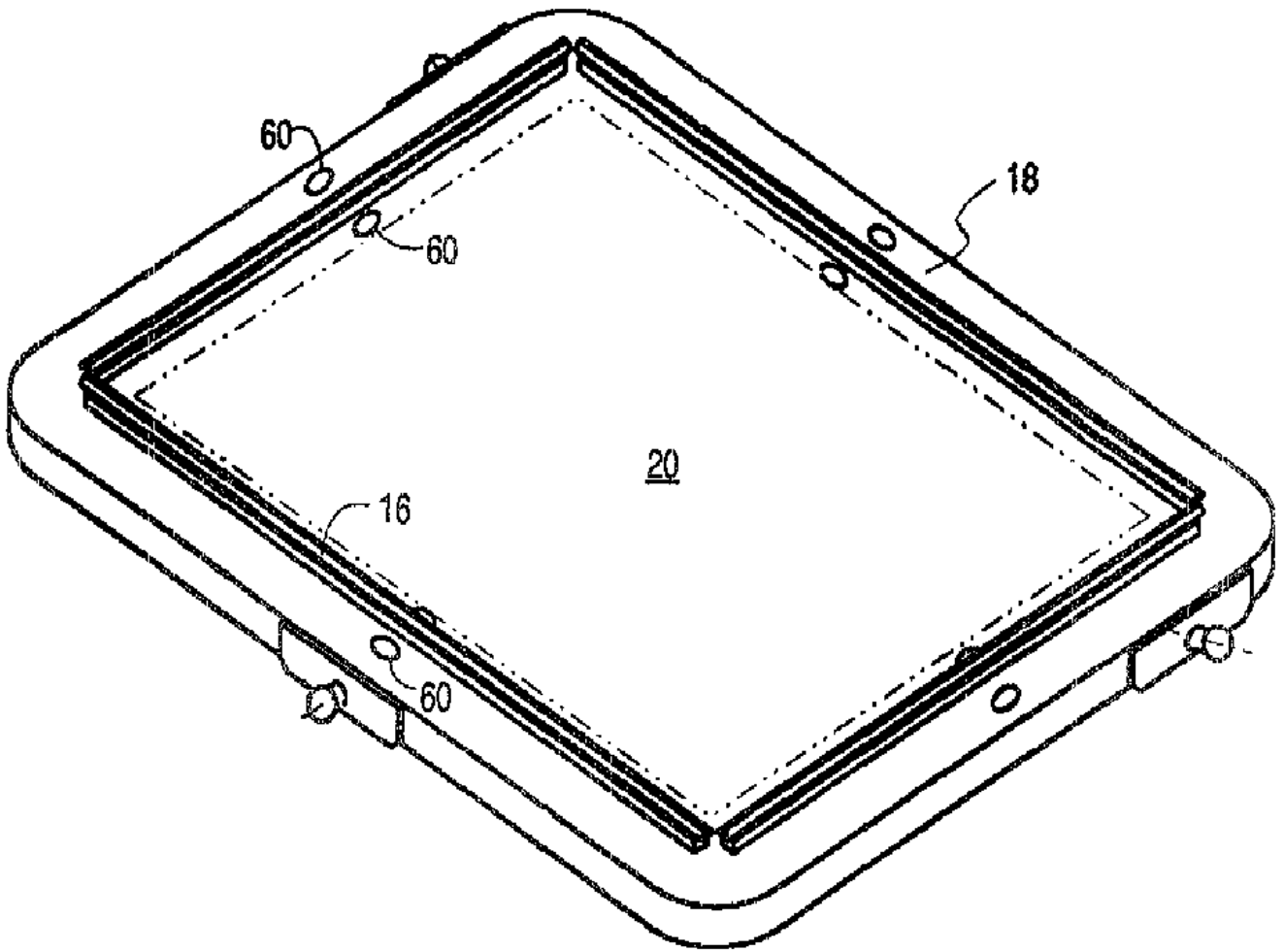




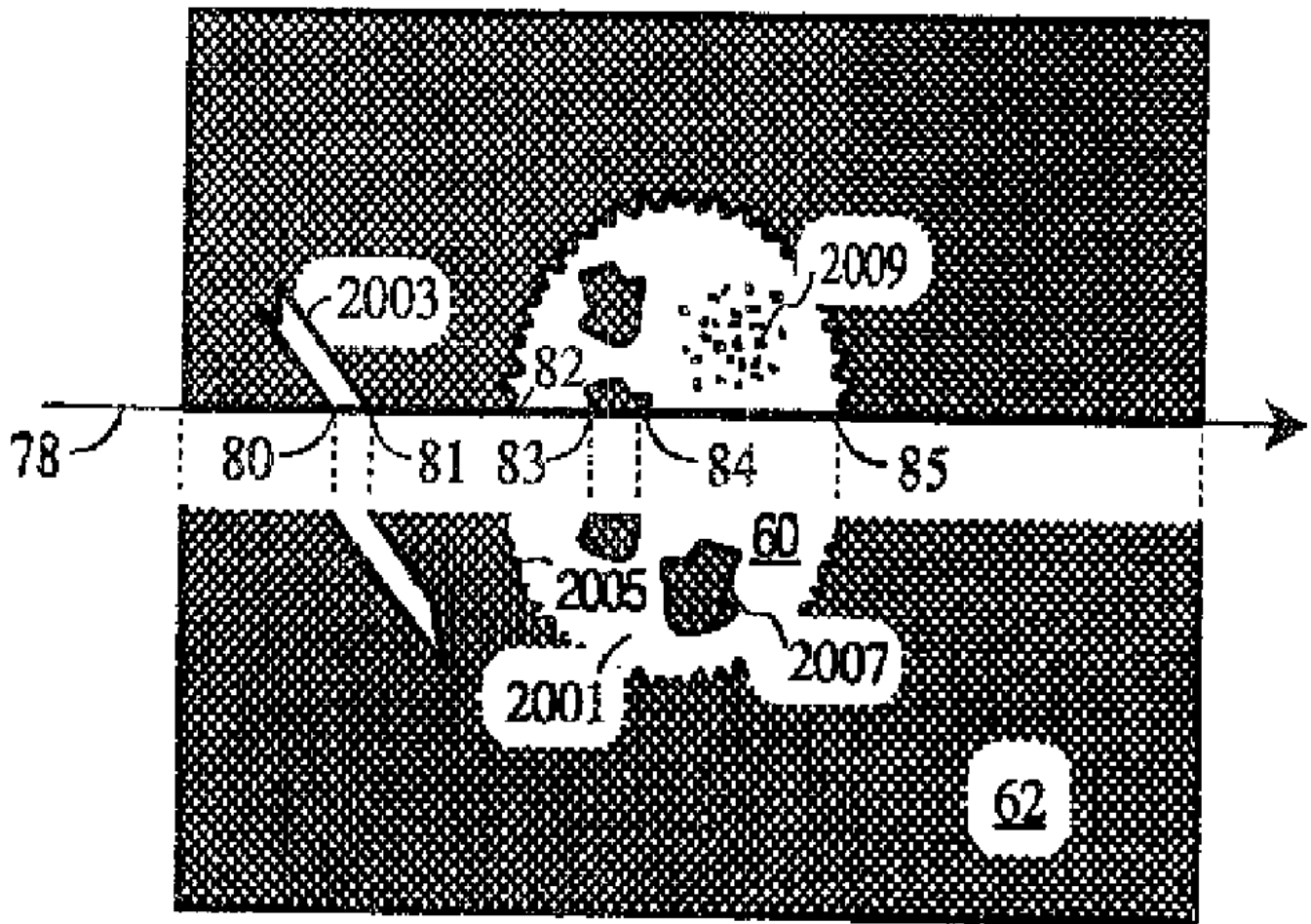




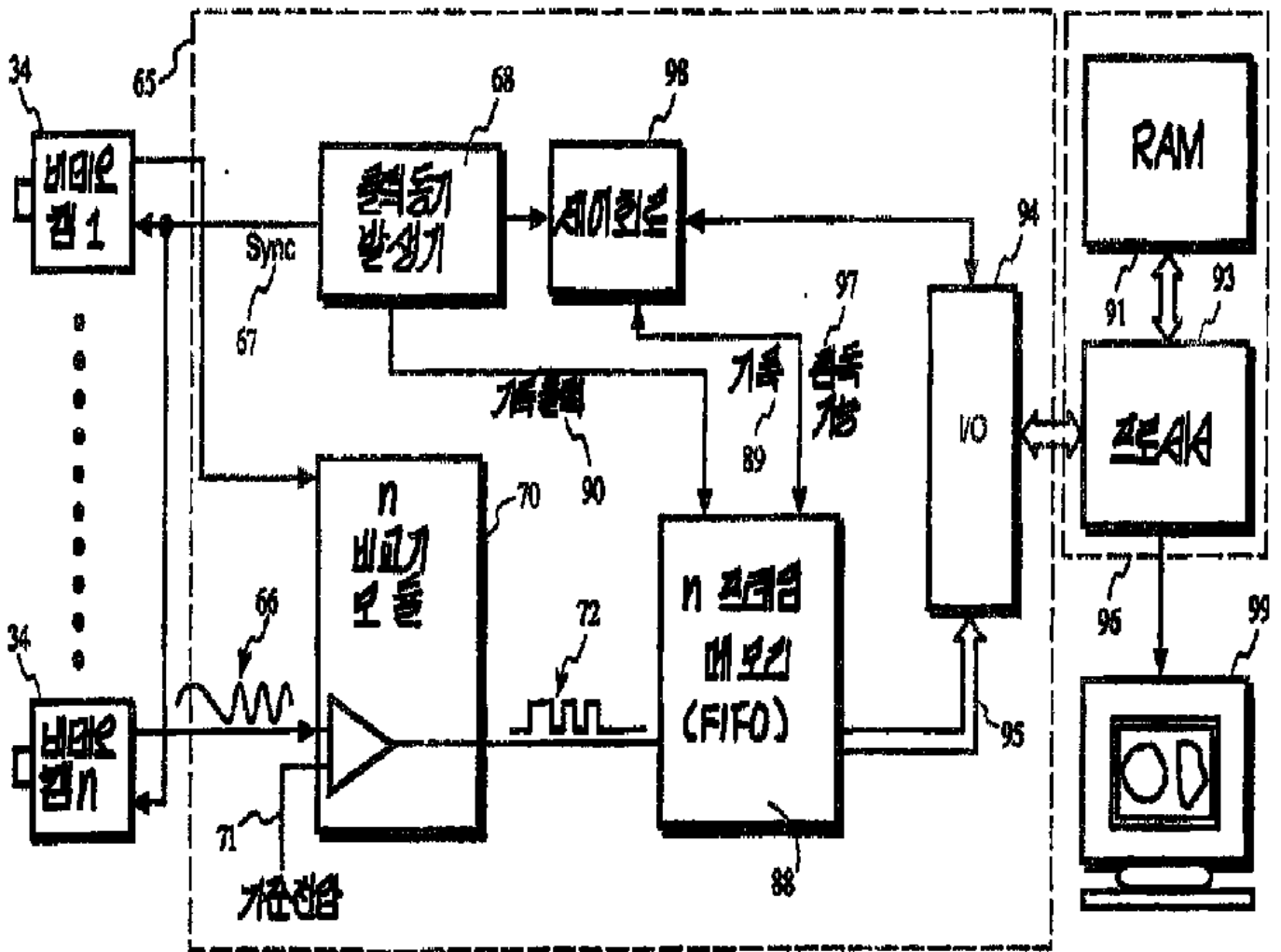
10a

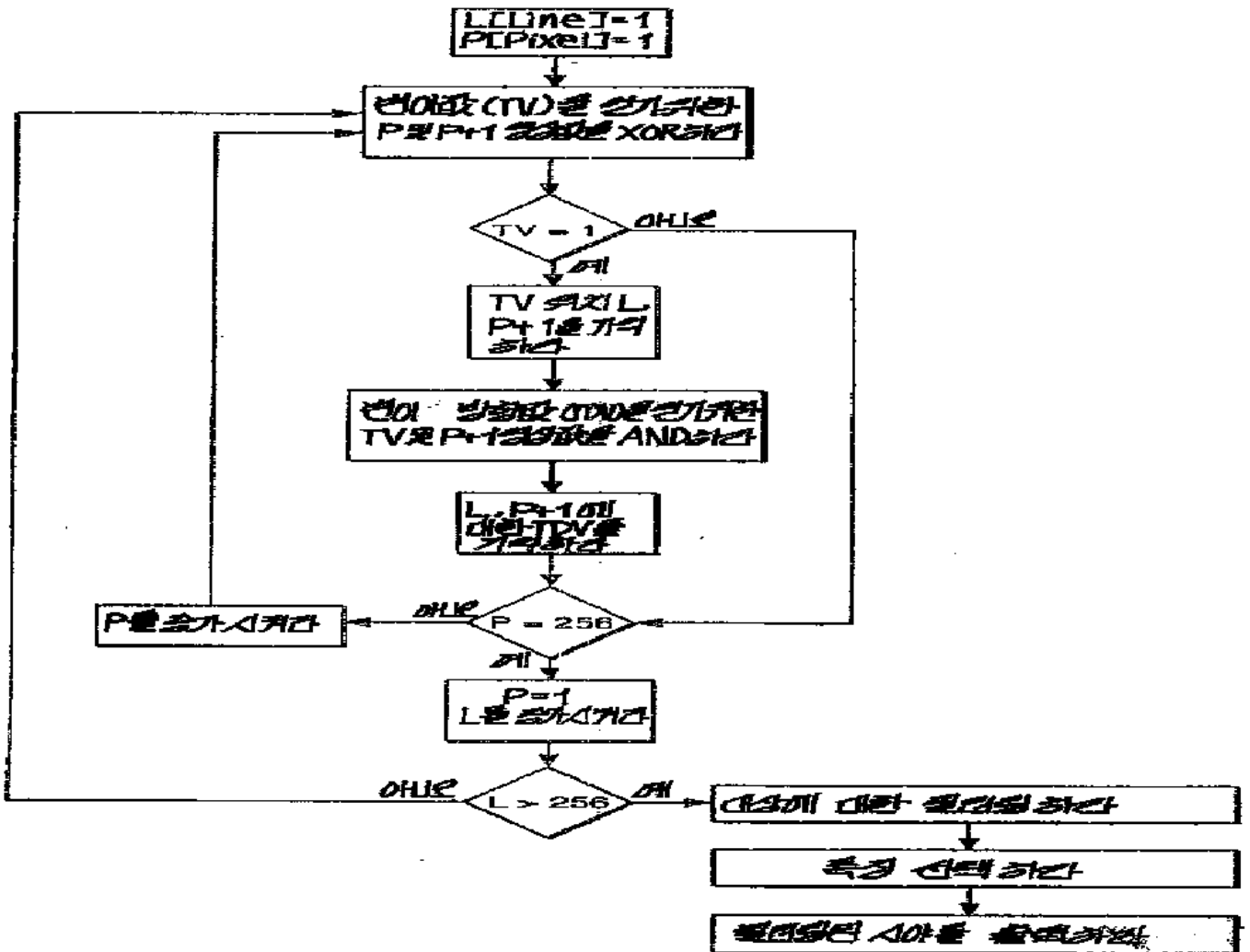


10b

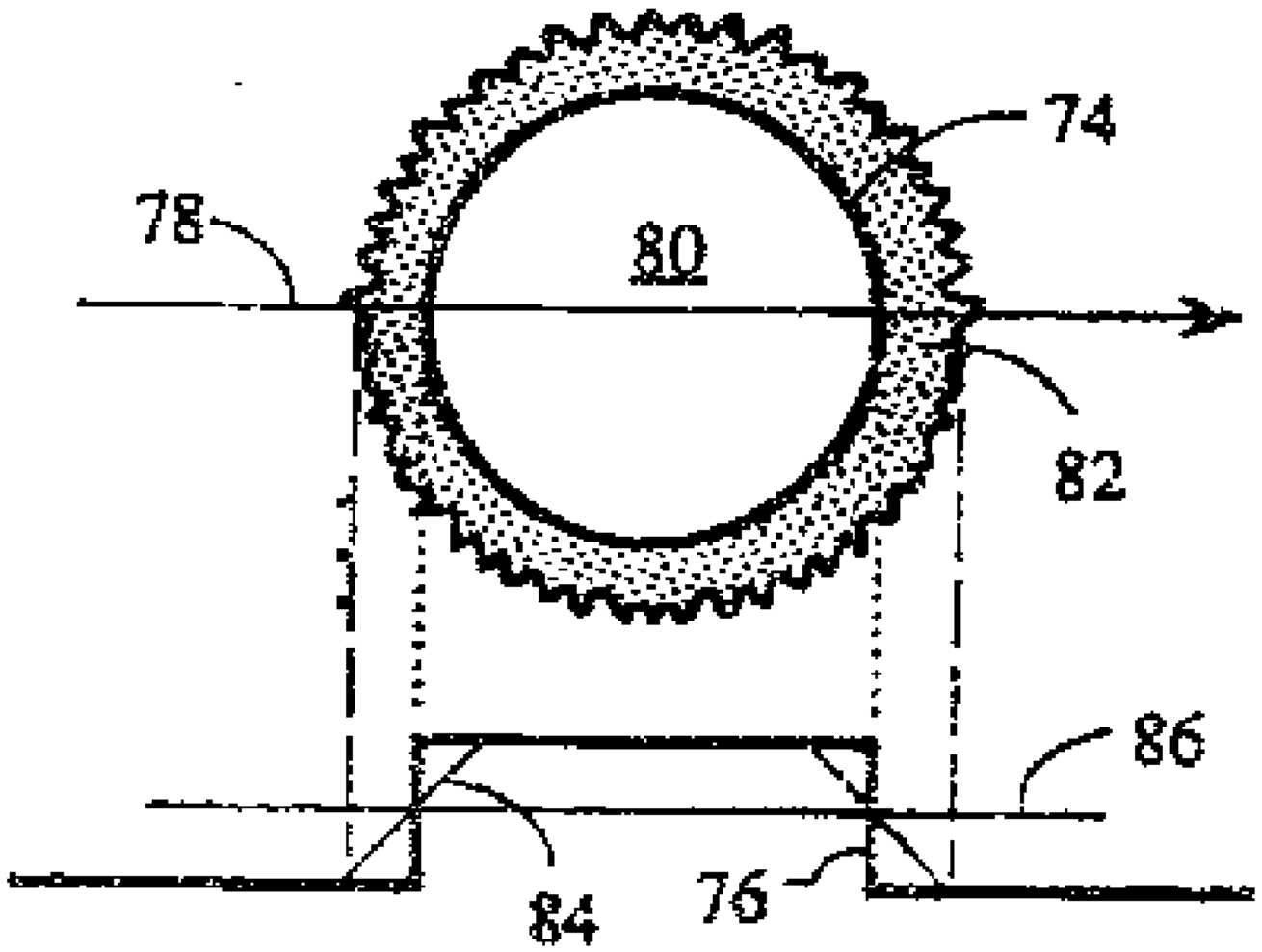








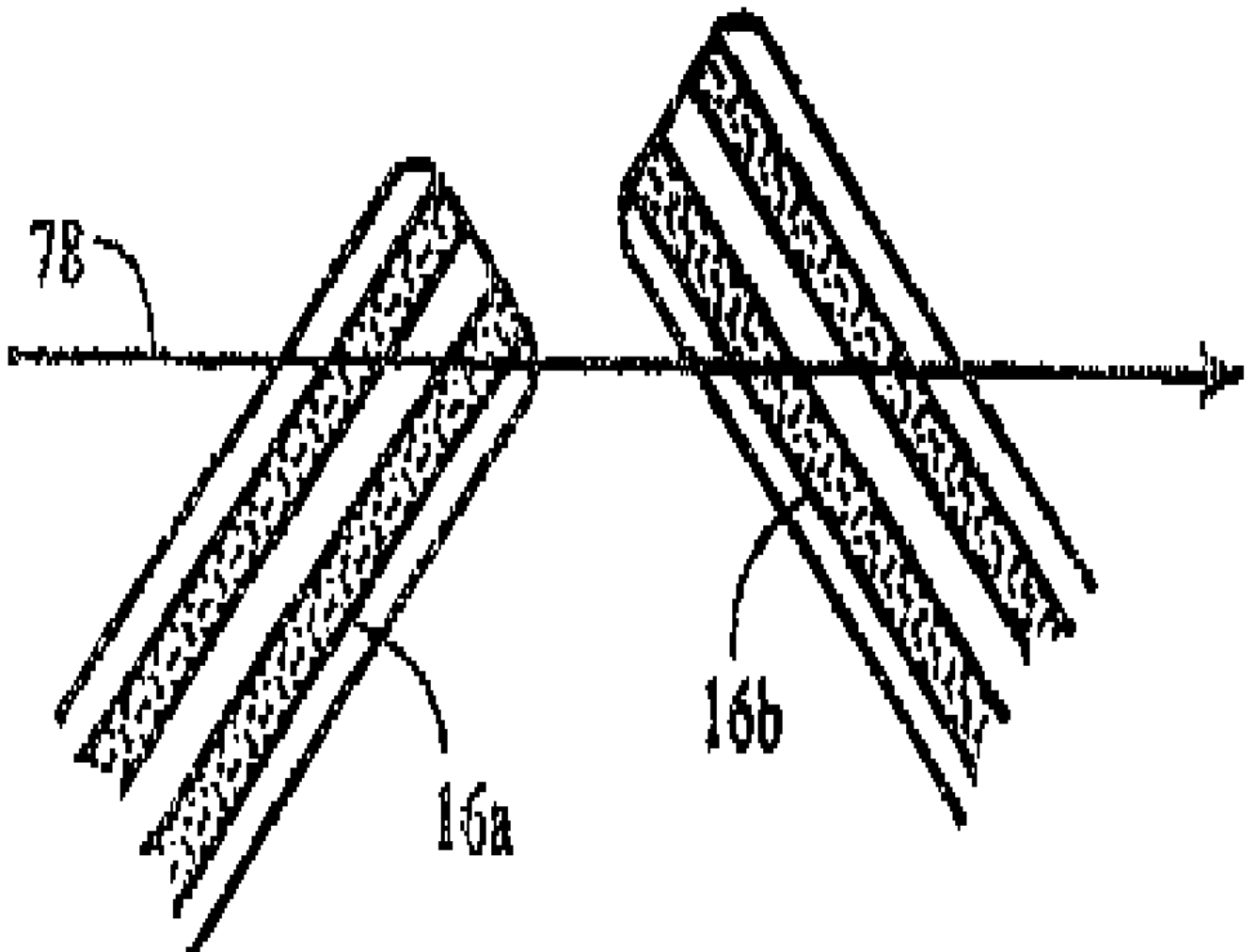
13



14

2	20 1	135	147						
3	20 2	20	32	57					
X	20 n	20							

15



16

