

(19)
(12)

(KR)
(A)

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2002 - 0004837
2002 01 16

(21)
(22)

10 - 2001 - 0037980
2001 06 29

(30)

2000 - 203411

2000 07 05

(JP)

(71)

가 가

2 4 - 1

(72)

가

3 - 3 - 5,

가 가

(74)

:

(54)

(輝度)
(光束)

(360)
(360)

(360)

(lens array)(320) ,
(320)
(光量)

(光)
(360)
(遮光材)(35

0)

1 .

2 1 .

3 1 (A) (B).

4 .

5 .

6 .

7 .

8 .

9 8 .

10 가 .

11 .

12 .

13 12 .

*

20 : (unit)

30 :

40 : (投寫)

200 :

210 :

212 :

300 : (integrator)

320 : 1

340 : 2

350 :

360, 361, 362 :

363 :

364 : $\lambda / 2$

365 :

366 :

367 :

368 :

370 :

372 :

380 :

382 : 1 (first dichroic mirror)

384, 394, 396, 398 :

386 : 2

390 : (relay)

392 :

400, 402, 404 : (field)

410R, 410G, 410B :

420 : (cross dichroic prism)

430 :

431A 431I, :

433 : 가

440(441A, 441B, 441C, 441D) : 가

441 :

501 :

502 :

503 :

504 :
 505 :
 506 : (投寫)
 510 :
 520 :
 521 : 1
 522 : 2
 523 :
 530 :
 540 :
 550R, 550G, 550B :

11 (502) (505) 6 (503), (下面) (501) (504), (投寫) (上面) (前面) (先端)
 , 12
 , (510) (光) (照度) (520) , (520) (出射) (光
 (550R, 550G, 550B) 束) W (赤), (綠), (青) (色) R, G, B (530) , (530) (色光束) , B (550B) 3 (枚) (5
 (540) , 50R, 550G, 550B) , (560) ,
 (506)
 13 (光) 1 (521) (520) 2 (510) (522)

(523) (入射) , (523)
(524) (550R, 550G, 550B) (畫像)

(520) (550R, 550G, 550B) (偏光光)
(high contrast)

(高輝度化)
(投寫面) (光)
가 (種別) 가

(光)

litter array) , 2 (出射面) , 2 (beam sp
(光量)

(精度)

가

가 (slit) , 가 , 가

가

가 80% , 가

가

(色) (光束) 3 (色光)

가

z, z 12 y 3 x

1 (20), (30), (40) 3

(30) (300), (382, 386), (384)
(380), (392), (396), (394, 398) (390)
, 3 (400, 402, 404), 3 (410R, 410G, 410B),
(420)

(20) (30) 1 (320) (入射面), (40)
(30) (420) (出射面)

2 1 3
(20) (200), (30) (300)
(360), (300) 1 (320), 2 (340), (350)
(370)

, 2

(200) (210), (212) (210) (212)
(光線束) 1 (320)

, (210) (metal halide lamp), 가
, (212)

3 1 (320) (A) (B) 1 (320)
(小) (321)가 $N \times 2$ ($N=4$), M ($M=10$)
, (321) z (410R, 4
(a
spect ratio)()가 4:3, (321) 4:3

2 (340) 1 (320) 2 (361,
362) (366) (集光) 가, 1 (320)
(341) , 1 (320) 2 (340) +z
-z , 2

(360) 2 2 (361, 362)가
 . 4 (361)
 (363) (361) (363) ,
 (光) $\lambda/2$ (364)(λ)
 (363) 4 (365) (界面) (366) (367)
 . $\lambda/2$ (364) (366) (367) x (寫像)
 . (366) x $\lambda/2$ (364)

(361) 1 (偏光光)
 5 (361) s
 p ,
 (366) s p . s (366)
 (367) , p (366)
 66) p $\lambda/2$ (364) , p s
 . (361) p (361) s $\lambda/2$ (364) (367)
 s , $\lambda/4$
 p s

(361) , 1 (366) 1 (367) , 1
 $\lambda/2$ (364) 1 1 (368)
 (361) (368)가, x

, (362) (361)
 , (350) 6 (366)
 . (350) (360(361, 362))
 (365) , (351)
 (352) , (350) 가 (353)
 (366), (367) , 6
 가

(350) 2 (340) (360) , 2
 (361, 362) , (366) , (35
 1) (352) . 가
 , 가 , (350) (微動) , (366)
 (365) (351) ,

, (360) (arc) (像), (350)

가

7 (350) (430)
 (350) (351)가 (350) (430)
 (351) (431A 431I) (431A
 431I)가 (365) 가 (433) 가 ,
 (431A 431I) (431A 431I)가,
 (360) 가 , , (431A 43
 1I)

(430) 2 (361, 362) (366)
 (431A 431I) (431A 431I)
 (431A 431I) (微動) (366)
 (精度)

, (350, 430) 2 (350, 430)
 (366) ((430) (431A 431I)) (366)
 , (350, 430) 3 가 (350, 430) 3
 (360) (367)

430) , 가 (350) (350) (

8 (350) , 9 8 ((350)
 350) (351), (가
 . 1 (320) 2 (340) (350)
 (351) , (360) (366)

, 가 (366) , , (351)
 가 (366) (350)
 가 (351)가 (366)
 가 (350)

(350, 430)

, (350, 430) , 가 가

, 10 (350, 430) 가 (366)
 가 (441) 가 (440) (442)
 (441A, 441B, 441C, 441D) ,
 (360) ,

가 (440) , 2 (340) (360) ,
 가 (441A, 441B, 441C, 441D) (全開) , 2 (361, 362)
 , (366) , 가

, 가 가 (441A, 441B, 441C, 441D)
 가 (442) (366)

, 가 (440) (366) (光)

(350, 430) 가 (440: 441A, 441B, 441C, 441D)
 , 가 ,
 80%

,

2 (200) (非偏光光) (300) 1
 (320) (小) (321) (202) , 2 (340)
 (小) (341) 2 (361, 362) (366) (

集光) , (350) (366)
 2 (361, 362) , 1
 , 2 (361, 362) (370)
 (410R, 410G, 410B)

, 1 (372) (370) (380)

,

(380) 1 2 (382, 386) , ,
 , 3 . 1 (382) (370)
 . 1 (382)
 (384) , (400) (410R)
 (400) (370) ()
 . (410G, 410B) (402, 404) 가

, 1 (382) , 2 (386)
 , (402) (410G) . , 2 (386)

, (390), (392), (394), (396) (398)
 (404) (410B) (3) 90)가 (光路) 가 (392) (404)

3 (410R, 410G, 410B) () (410R, 410G, 410B) (色光) , 3 (410R, 410G, 410B)

3 (410R, 410G, 410B) 3 (變調光) (420) (color) (420) 3 (420) (多層膜) , 4 X (420) 3 (40) (40) (40) 가 , (350, 430) 가 (440) , 가 (360) (350, 430) (360) 가 (440) (410R, 410G, 410B) (耐光性) , 가 , , 「 」 가 , , 3 3 (三角柱狀) 2 , 4 1 가 6

， (投寫像) (rear) 가 (front) ，
가 .

(57)

1.

， (光) (光束) ，
，
2 (偏光光)
， 2
，

(遮光材)

2.

1 ，
가 .

3.

1 ，
.

4.

3 ，
.

5.

1 ，
가 .

6.

5 ， 가 (slit) ，
.

7.

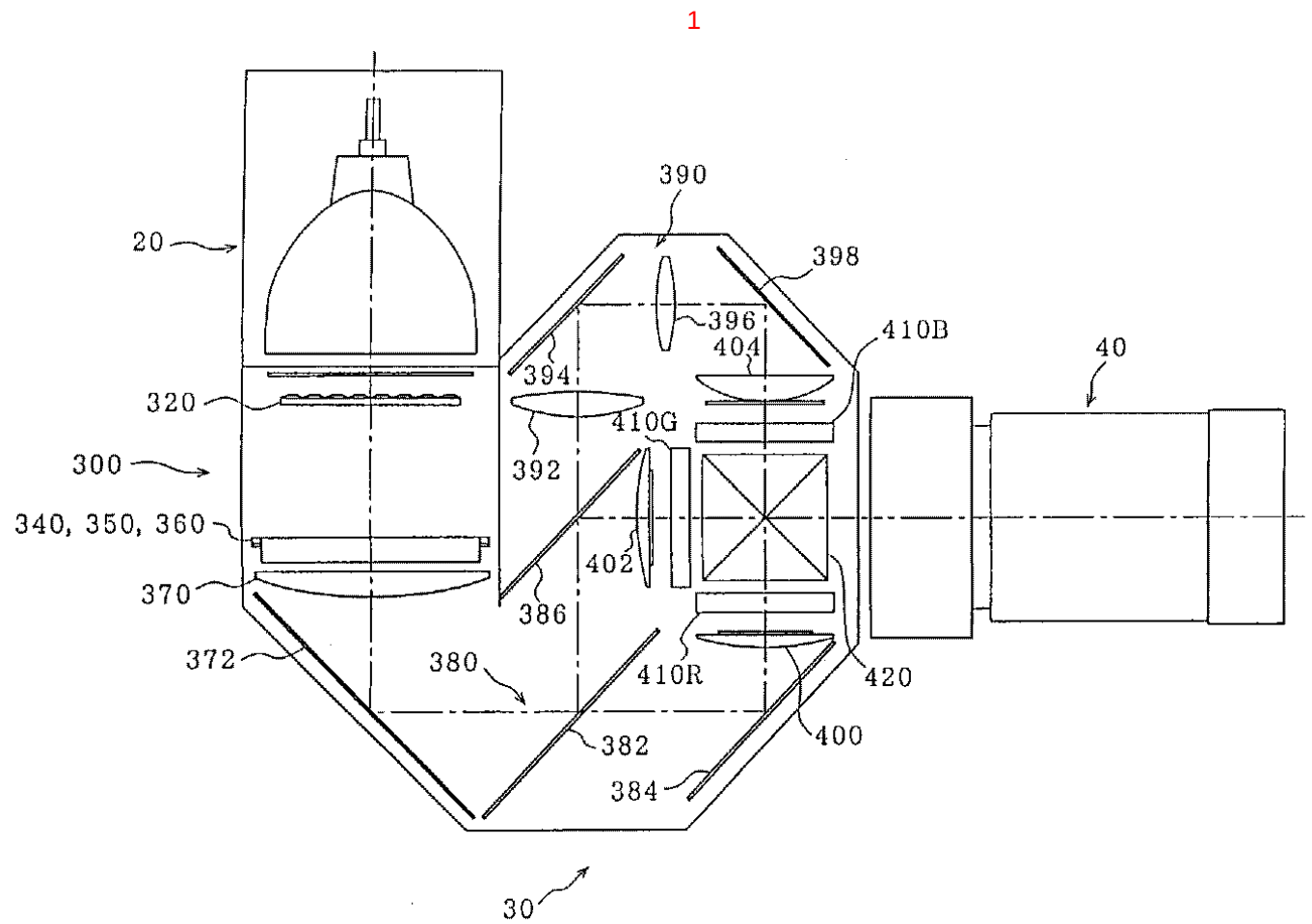
1 6 , 80%

8.

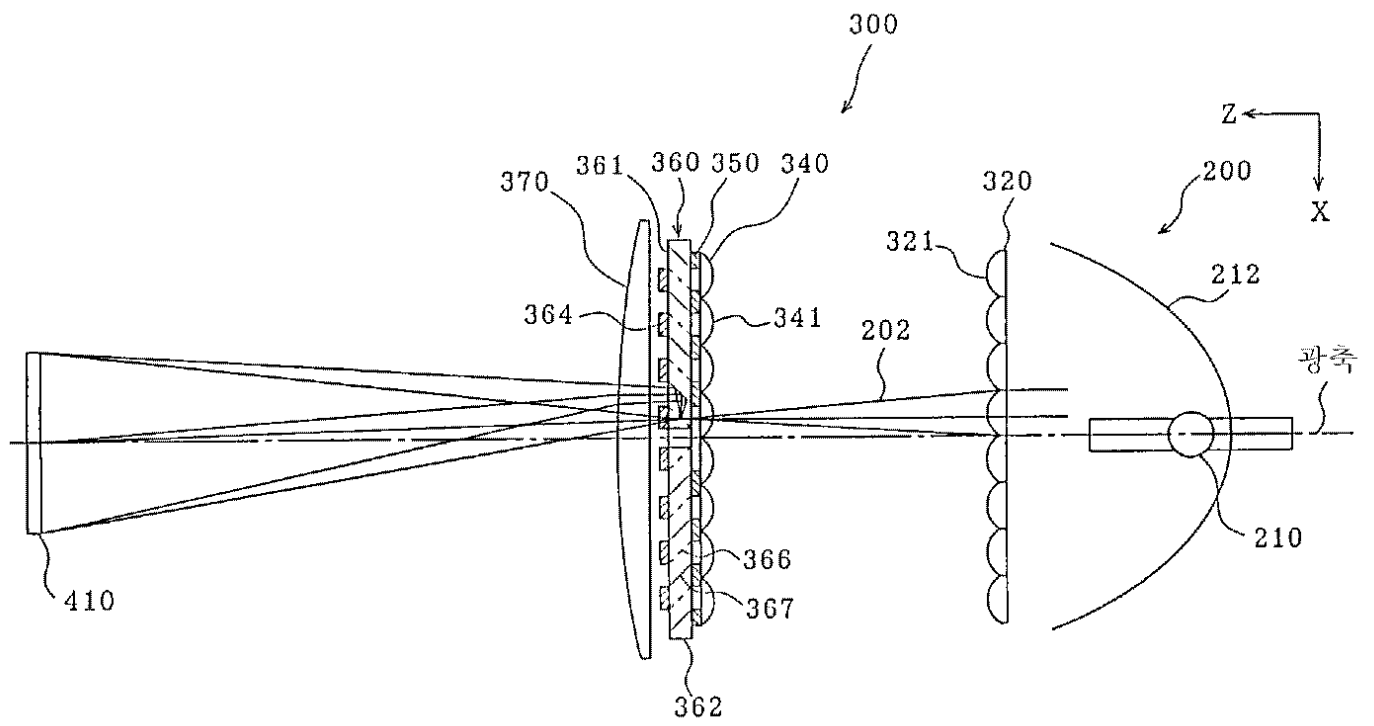
1 7 , , (照射)

9.

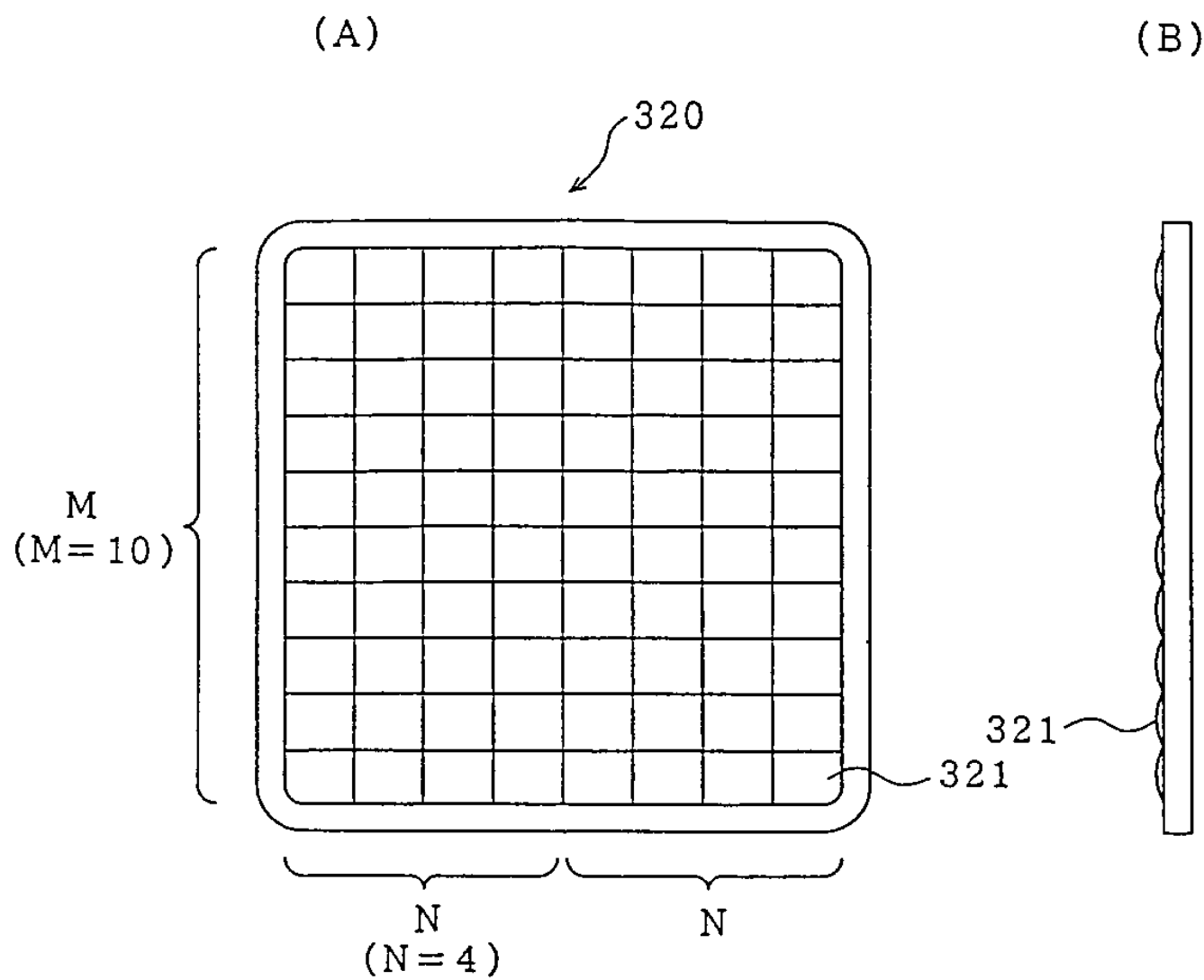
8 , (照射) 3
(色光束)



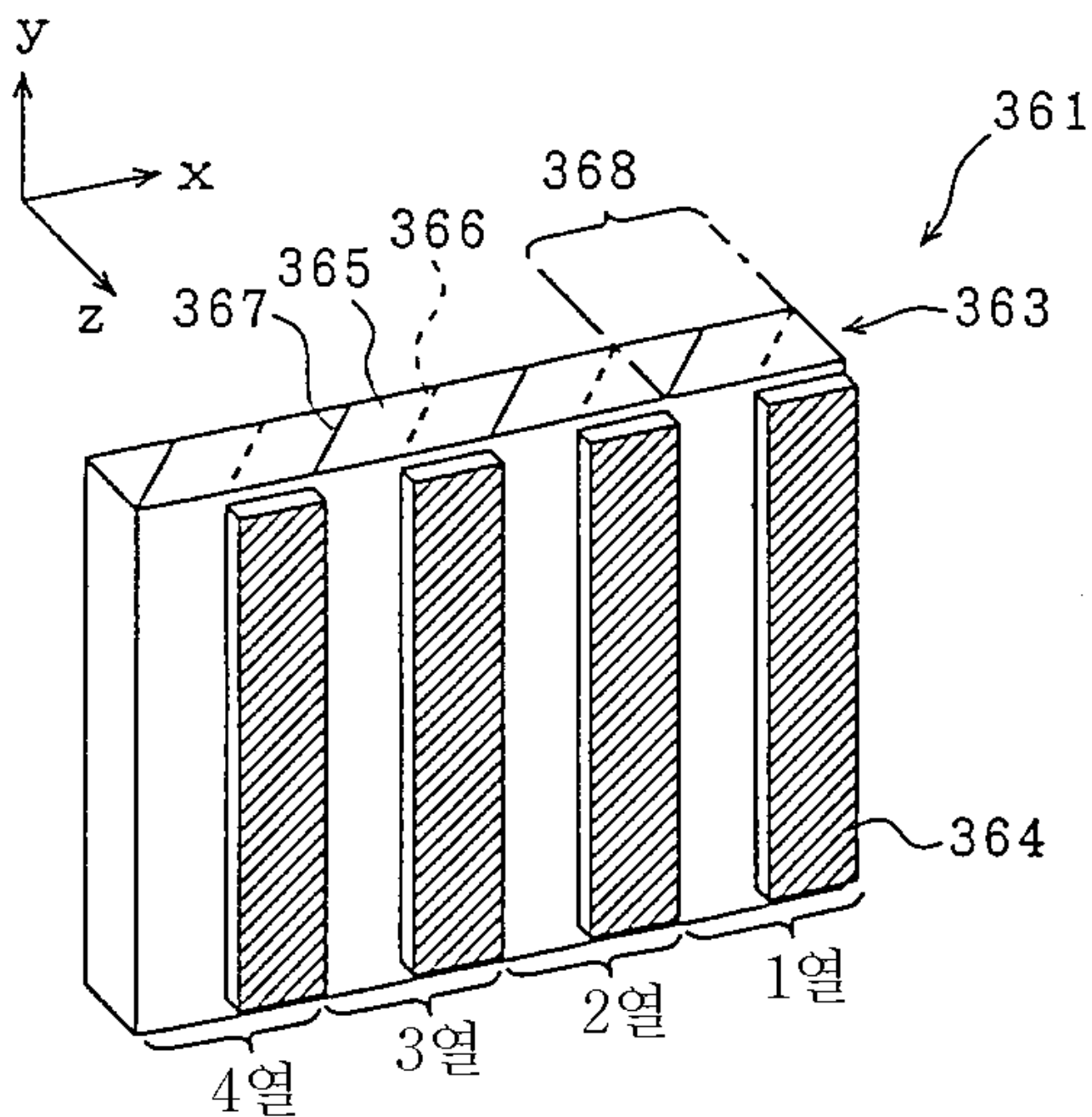
2



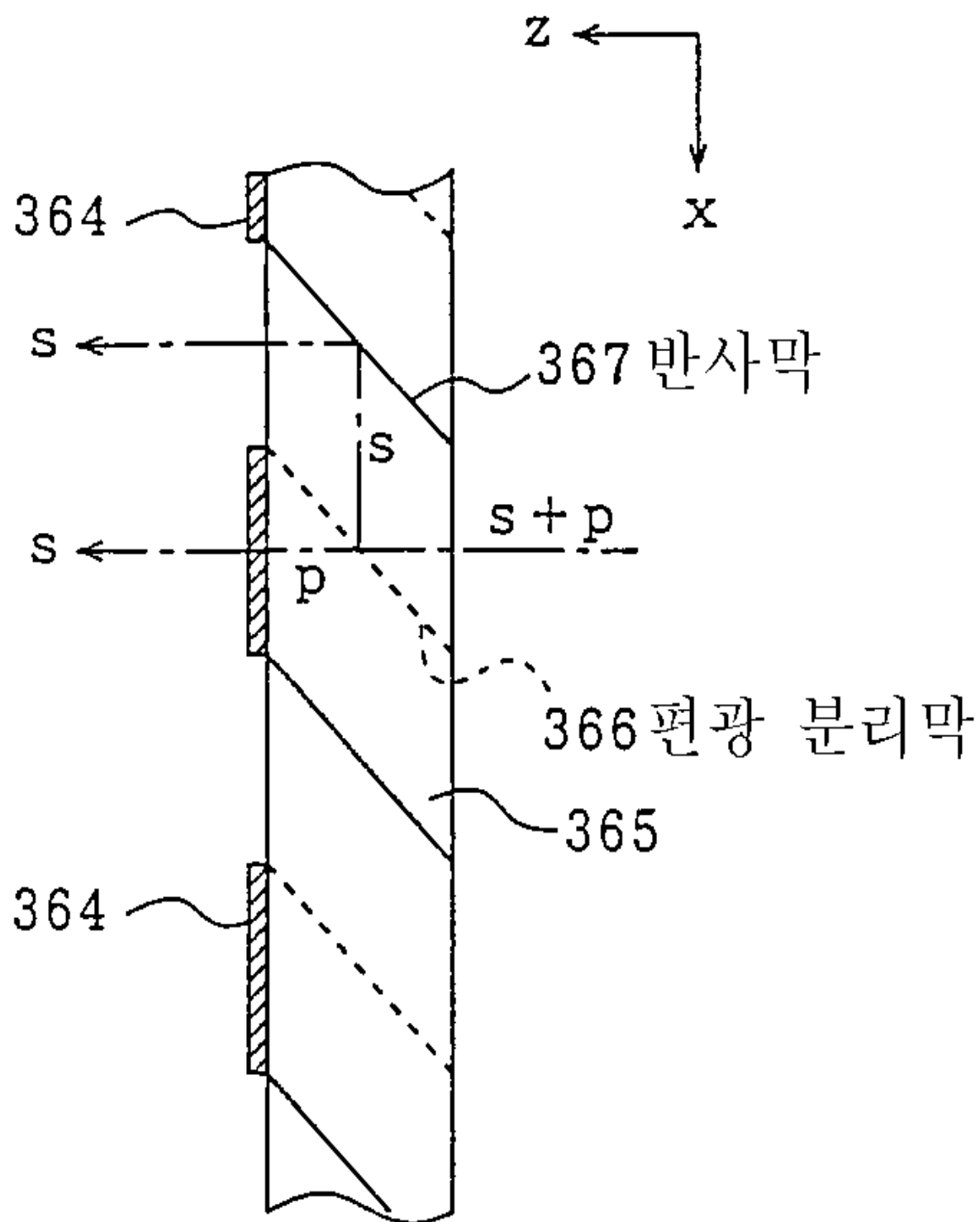
3



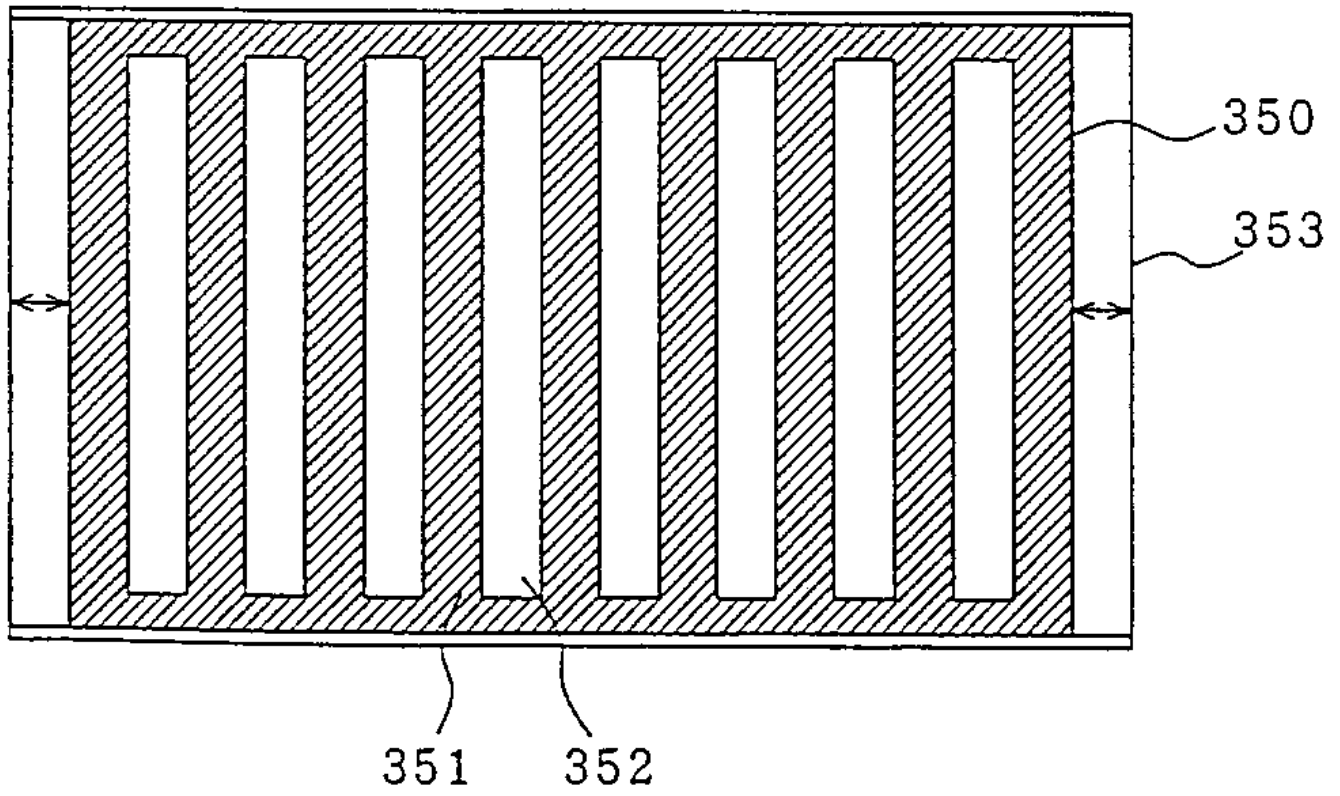
4



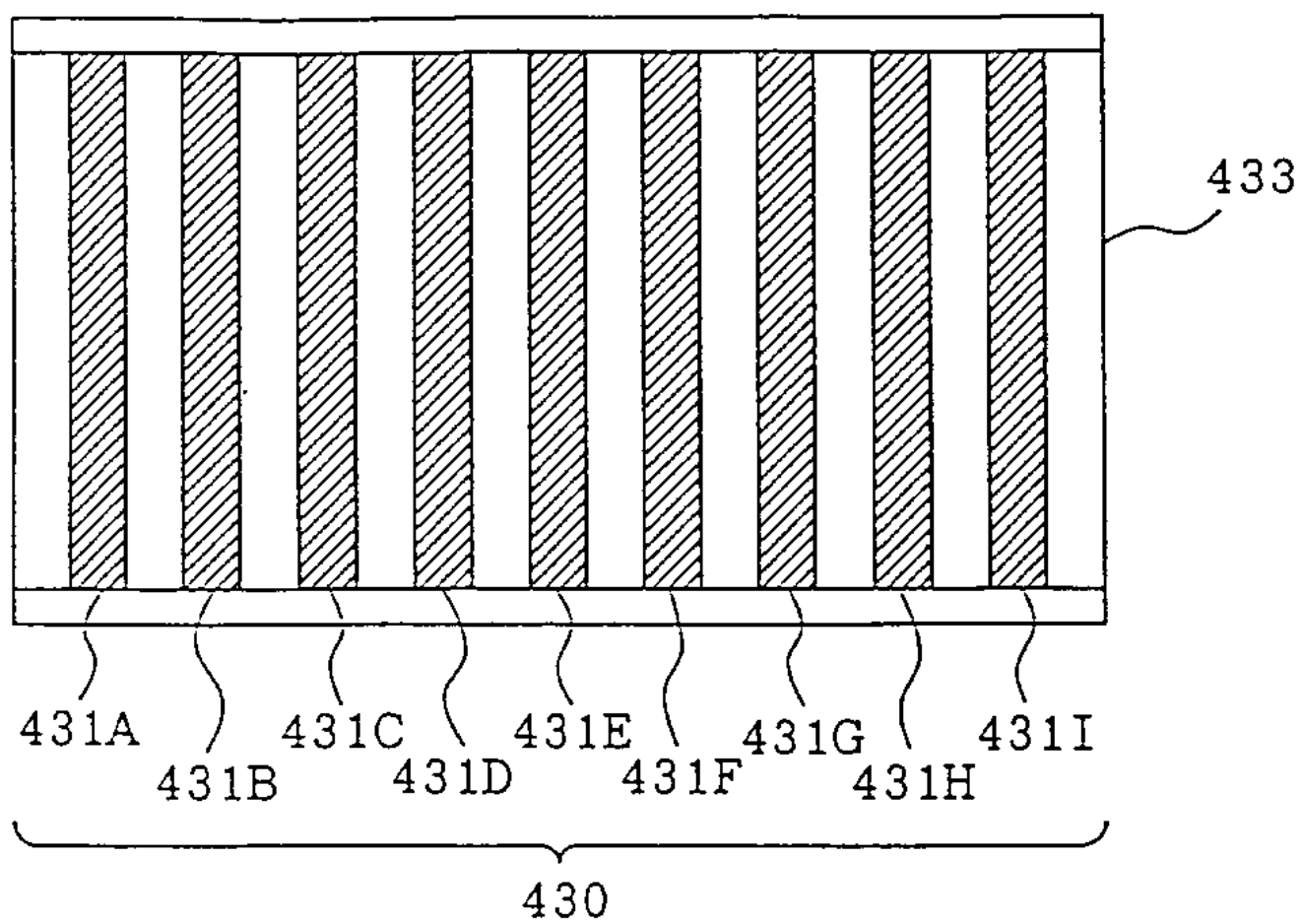
5



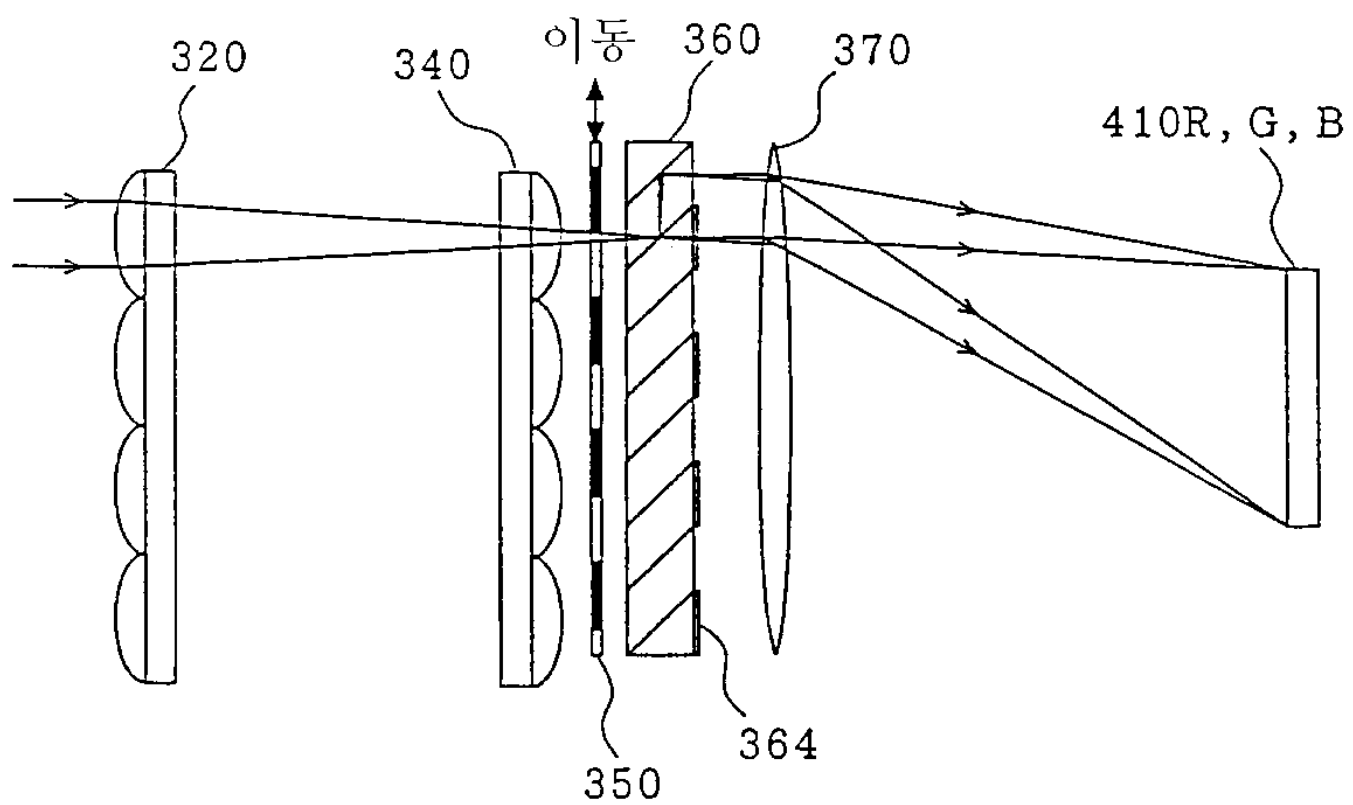
6



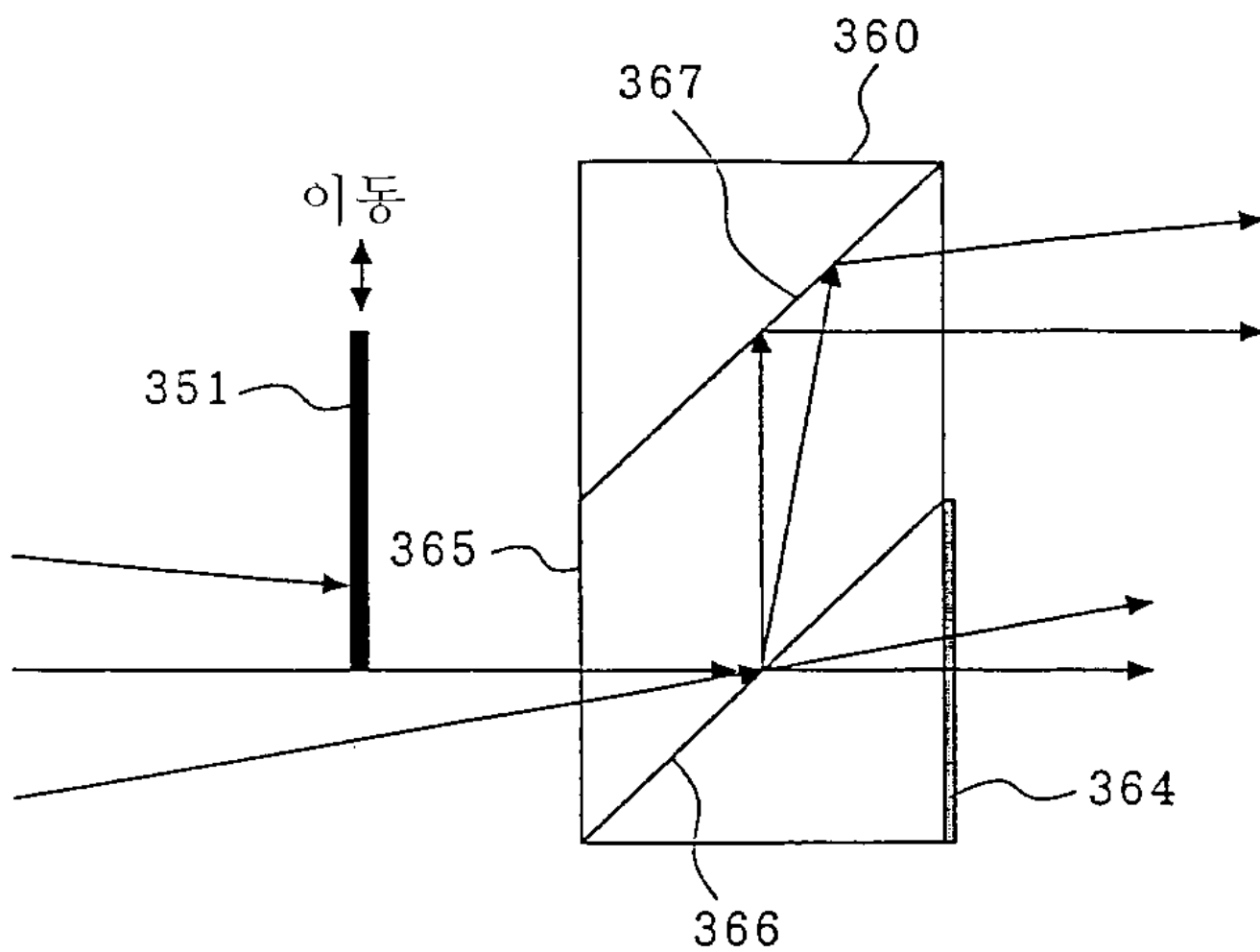
7



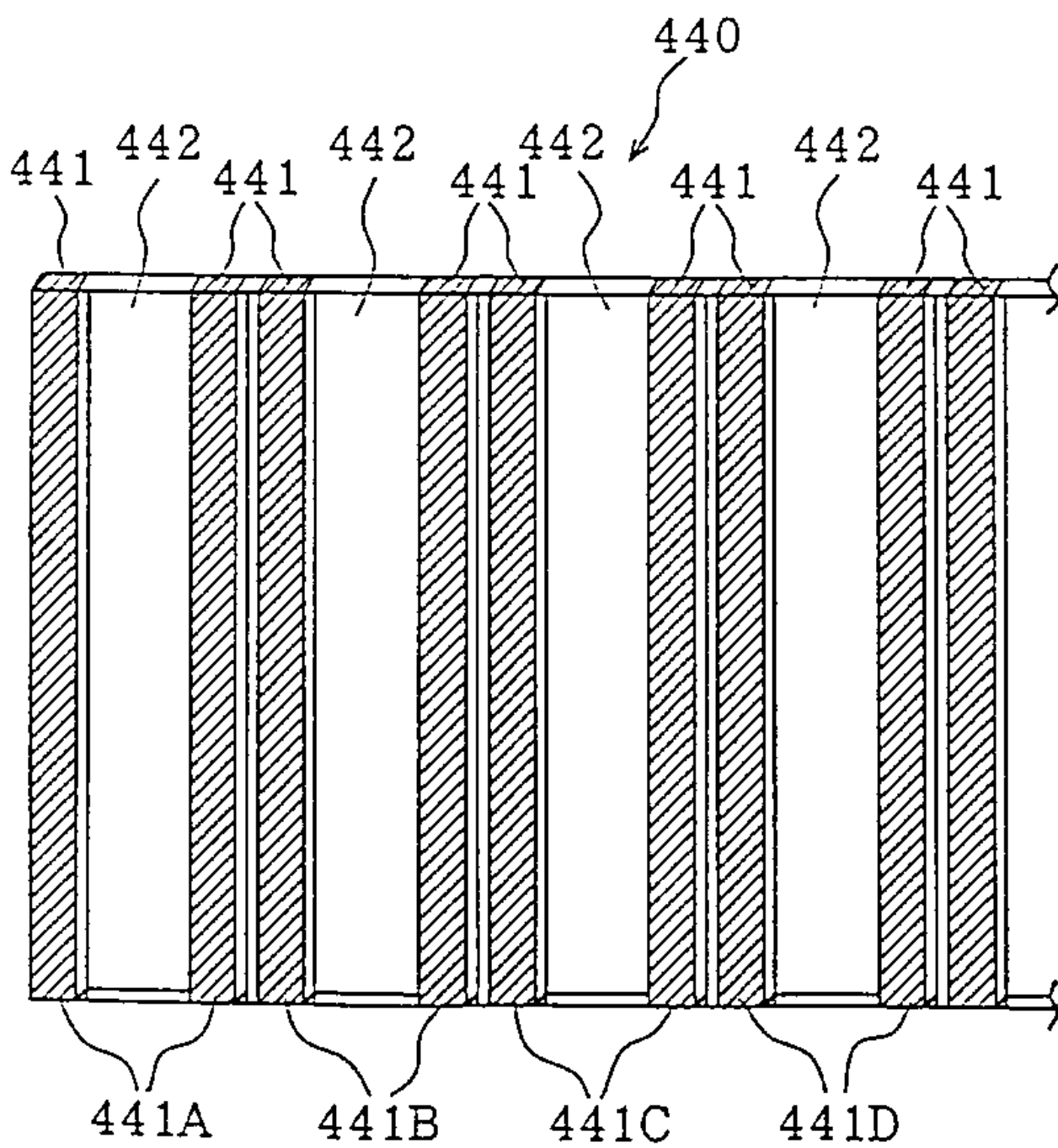
8



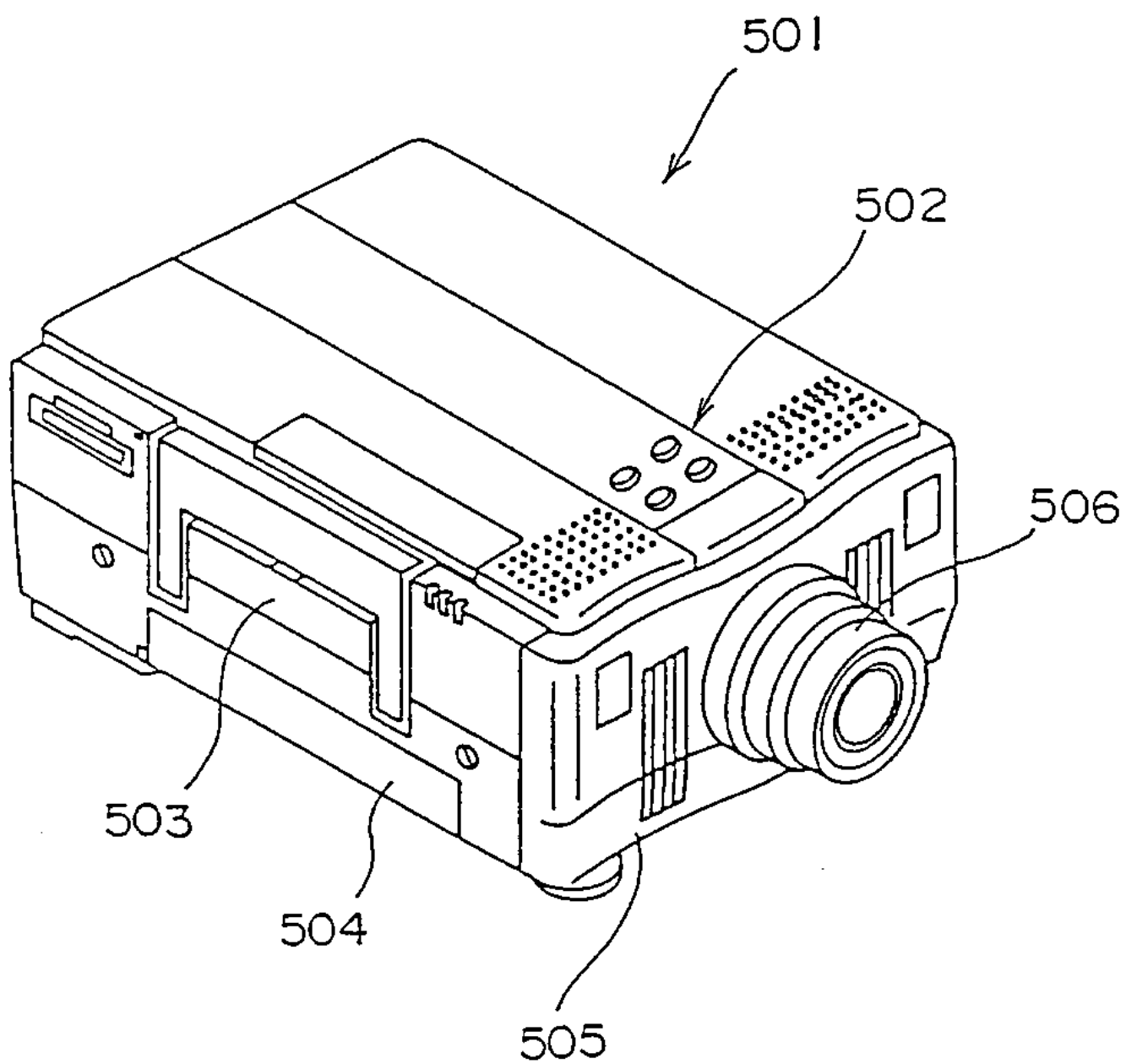
9



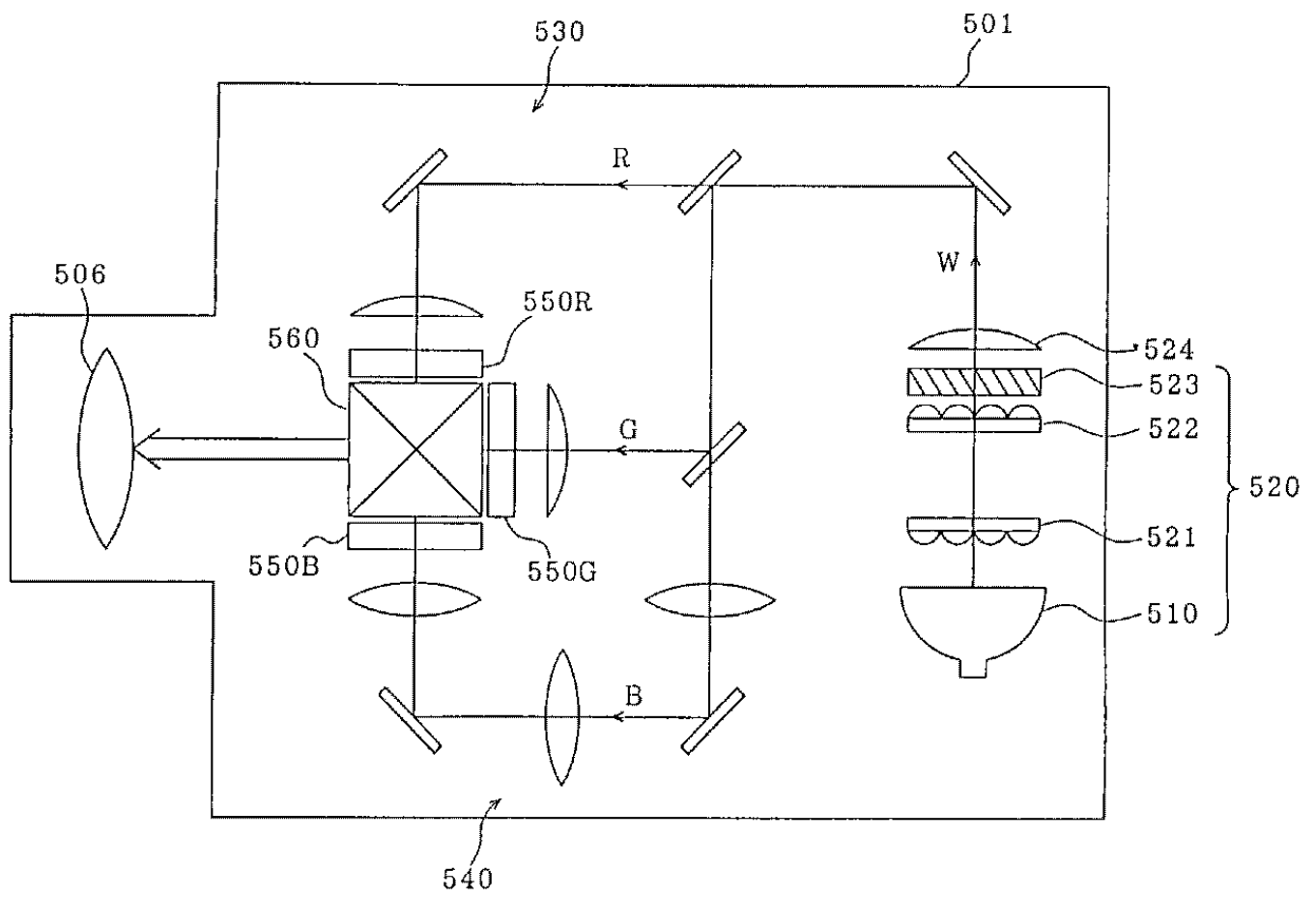
10



11



12



13

