

(19)
(12)(KR)
(B1)(51) 。 Int. Cl. ⁶
F02M 37/08(45) 2001 12 24
(11) 10 - 0317013
(24) 2001 11 27(21) 10 - 1999 - 7002920 (65) 2000 - 0068707
(22) 1999 04 03 (43) 2000 11 25

(30) 97 - 213540 1997 08 07 (JP)

(73) 가 가

1 1 - 1

(72)

1 1 - 1 가 가

1 1 - 1 가 가

1 1 - 1 가 가

1 1 - 1 가 가

(74)

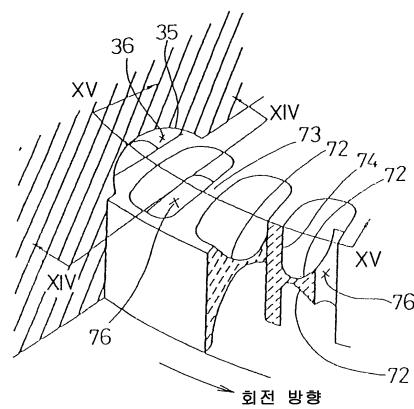
:

(54)

가 ,

가 ,

가



(in - tank system)

가 1

1	(3)	(4)	(3)	(1)	(2)
(8)	(armature) (7)가	(4)	(5)	(9)	(10)
(11)가	(6)	가 (12)가	.	(7)	,
(13) 가	(4)	(7)	.	(12)	(3)
.	(14)	.	(13)	(15)	(13) ,
.
(4)	(16)	(17)가	,	가	.
.
(5)	(19)	(18)가	(3)	.	(18)
(20)	(18)	,	(5)	(20)	(19)
(18)	(5)	(5)	.	.	.
.
(21)가	.	.	(21)	(22)	.
.
.
(1)	(19)	.	(8)	,	(21)가
.	.	.	(20)	.	(6)
가 ,	(16)

가

가

가

가

,

가

가

가

가

가

가

가

가

가

가

1

2

3 2 ,
4 3 - ,
5 3 - ,
6 1 ,
7 6 - .
8 6 - ,
9 2 ,
10 3 ,
11 4 ,
12 ,
13 5 ,
14 13 X - X ,
15 13 X - X ,
16 5 ,
17 5 ,
18 6 ,
19 6 ,
20 6 ,
21 7 ,
22 7 ,
23 8 ,
24 8 9 ,
25 10 ,
26 10 ,
27 10 ,

28 11 ,
 29 11 ,
 30 11 ,
 31 ,
 32 / ,
 33 / ,
 34 ,
 35 / ,
 36 ,
 37 .

, 1 가 6 8 (. , 6) , 8 6 -
 () .

(41) (42) . (42) (43) 가 , (43) (43)

(43) , (44) (45) 가 , , (42) (43) (44) (45)

, (42) (43) (44) (45)
 , 가 .

, 5 (G) (stagnation) 가 (22) (23) (24)
 , (45) (42) 가 , , .

가

$$2 \quad \text{가} \quad 9 \quad . \quad 9 \quad (54)$$

3 가 10 . 10
(57) ,
(58) , 8
(59) 가 , ,

4
가 11 . 11 , 가 (62), 가 (63)
(61), (63) 가 (64) (62), (64) 가 (62) , 가 (62)
(65) , 가 (62) . (66) , 가 (62)
,

9 가 24 () 24 2
 , (P) . , , ,

,
 , 10 가 25 27 , 25
 (130) () , 26 ()
 , 27 , , (131)
 (133) (131) (131)
 , (133) (131) (131)
 가 (132) (131) (131)
 . , 가 ,
 ,

11
 가 28 30 (141) ()
 (142) (143)

, , , ,
 , N , P , Q ,
 (E) 33mm, (T) 31mm,
 [(E), (T) (S) 3.8mm,
 , g 31 37 , T
 , 37 (S) 36].
 가 31 37 가 43

가 31
 (straight)', 17

,
 , (straight hole enlarged)'
 , (121) , (curved)'
 , (125) , 24
 가 , 가
 가 (126)가 ,
 (123) + ,
 + , ,
 31 , ,

(25%)

가 32
 (B) ,
 0.2 0.9
 0.6

가 33
 (X) ,
 (Y) 1.36mm
 2.0 4.5
 , 2.2 4.2

가 34
 , 3.5mm² 6mm²
 3.2mm² 6.3mm²

가 35
 (T) 30mm
 0.9

(T) (t)
 (E) , E=T+2t
 , 35
 / , 0.55 0.85

가 36
 (N) M/N
 , 0.4 0.36 0.76
 , 0.4 0.75

가 37
 (N)
 0.75 1.1
 , 0.8 0.97

(57)

1.

가

2.

1 ,

3.

1 ,

4.

가 가
가

5.

4 ,

가 가

6.

4 ,

가 가
가

10.

4 ,

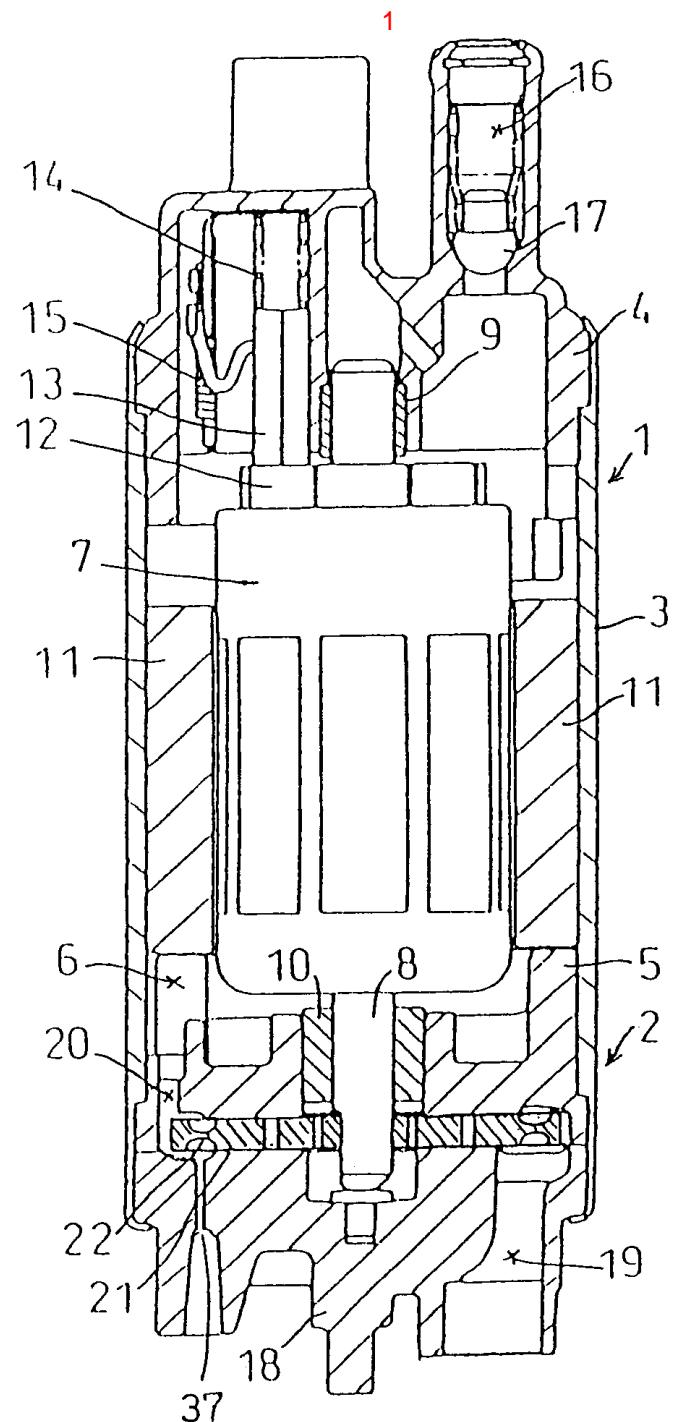
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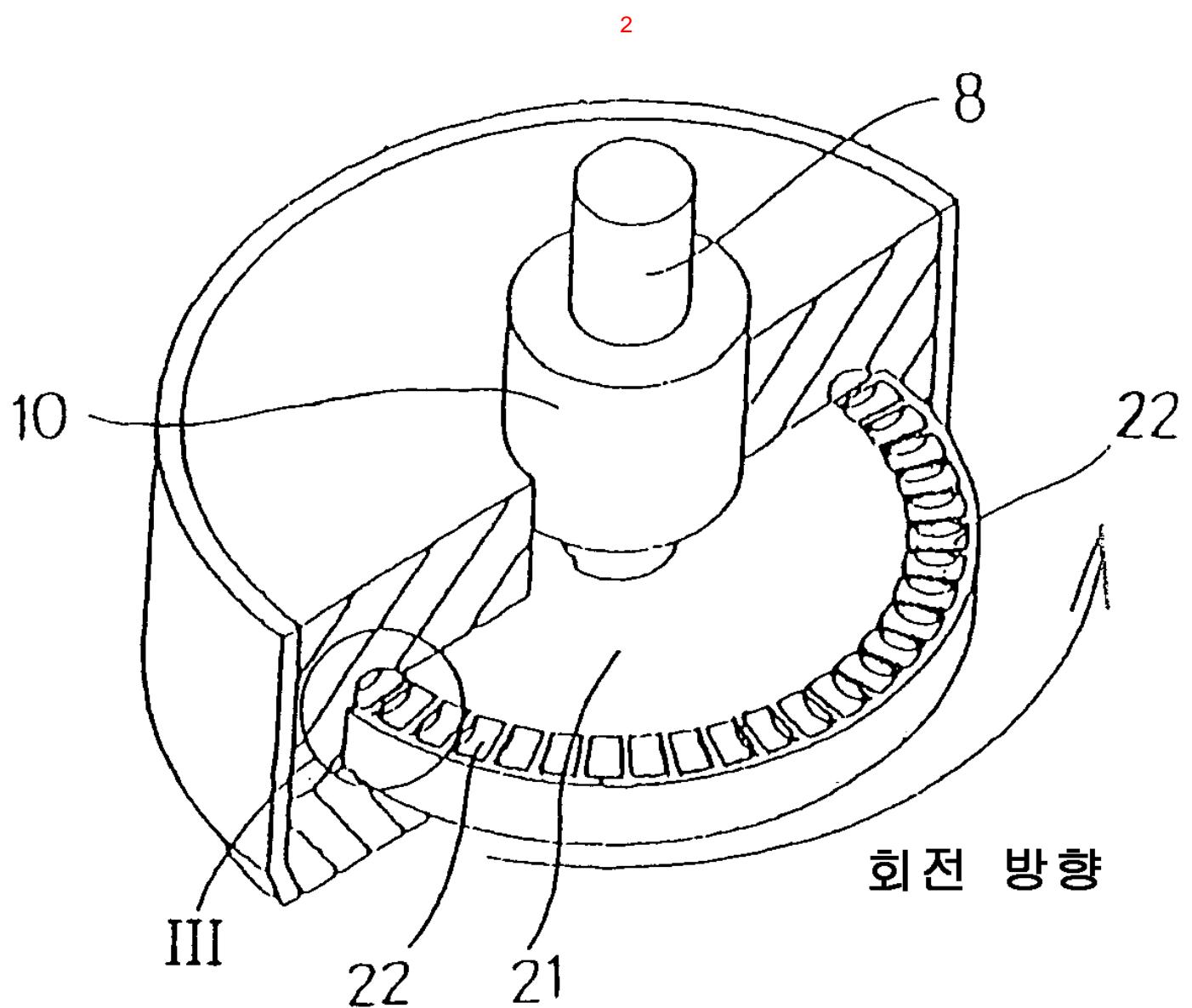
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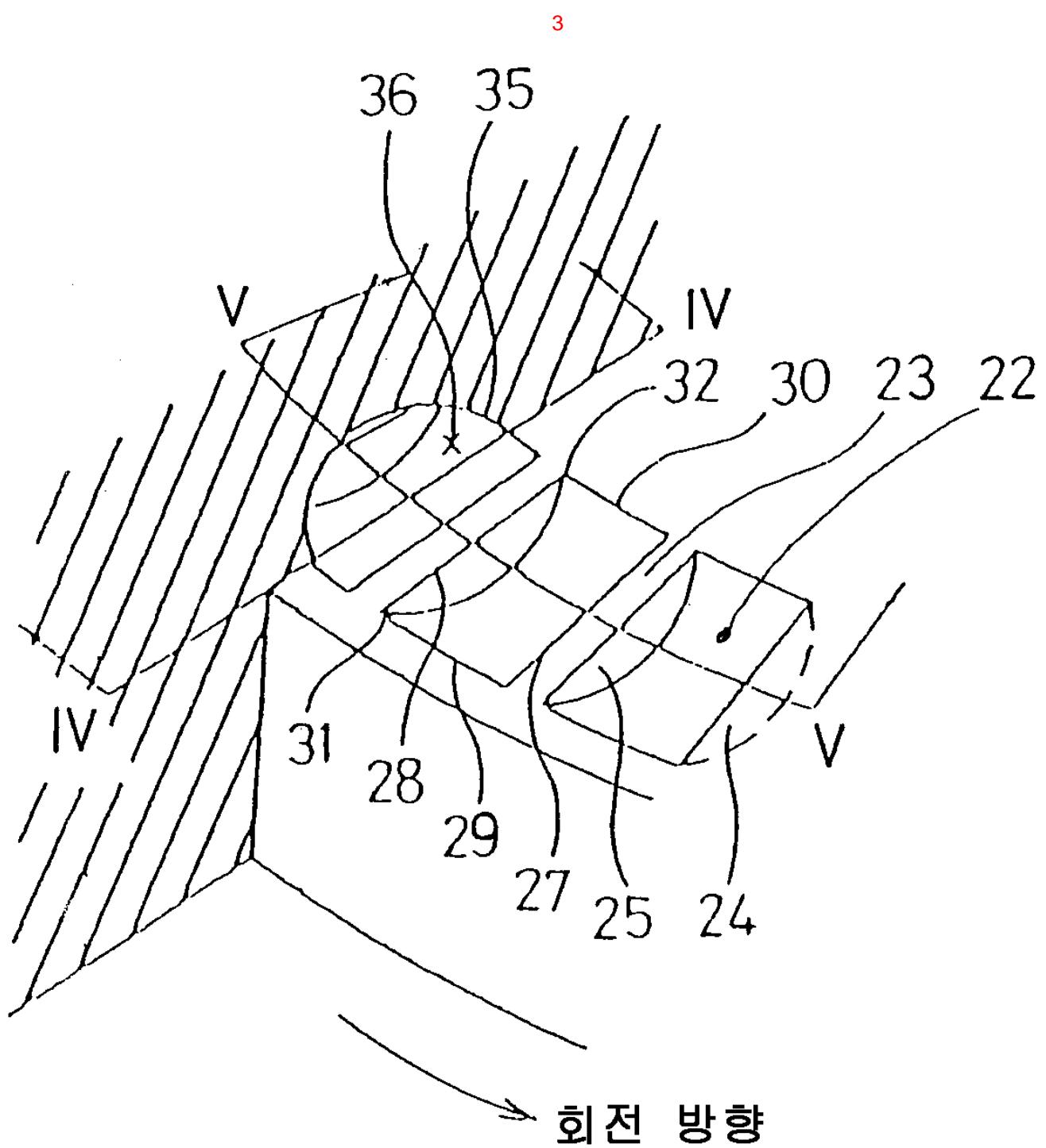
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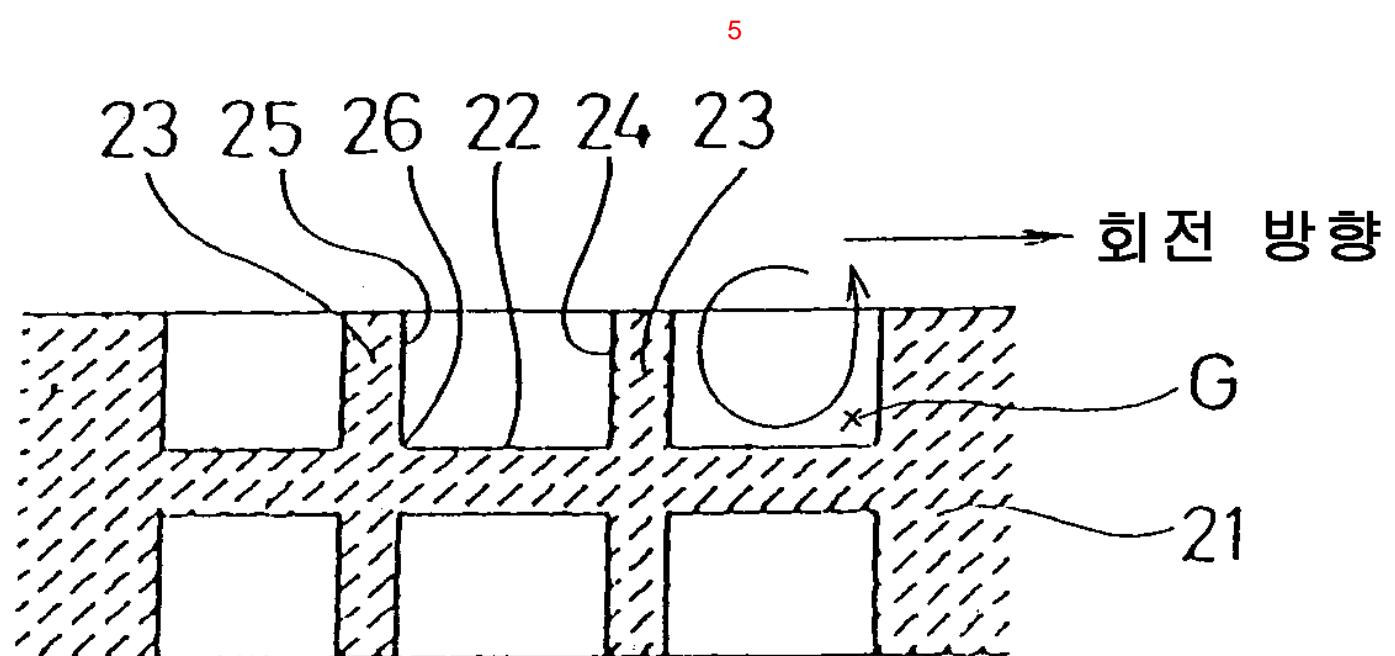
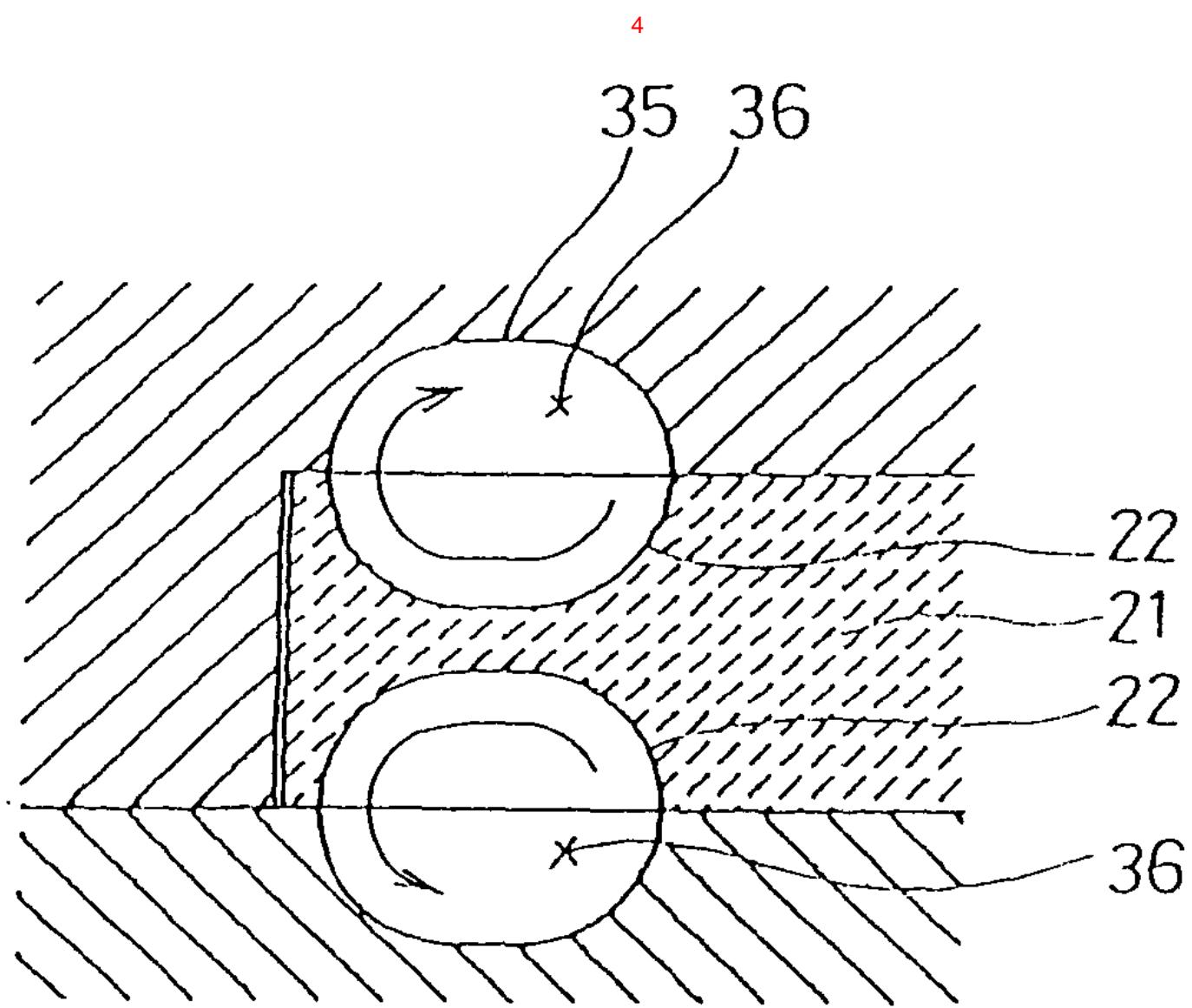
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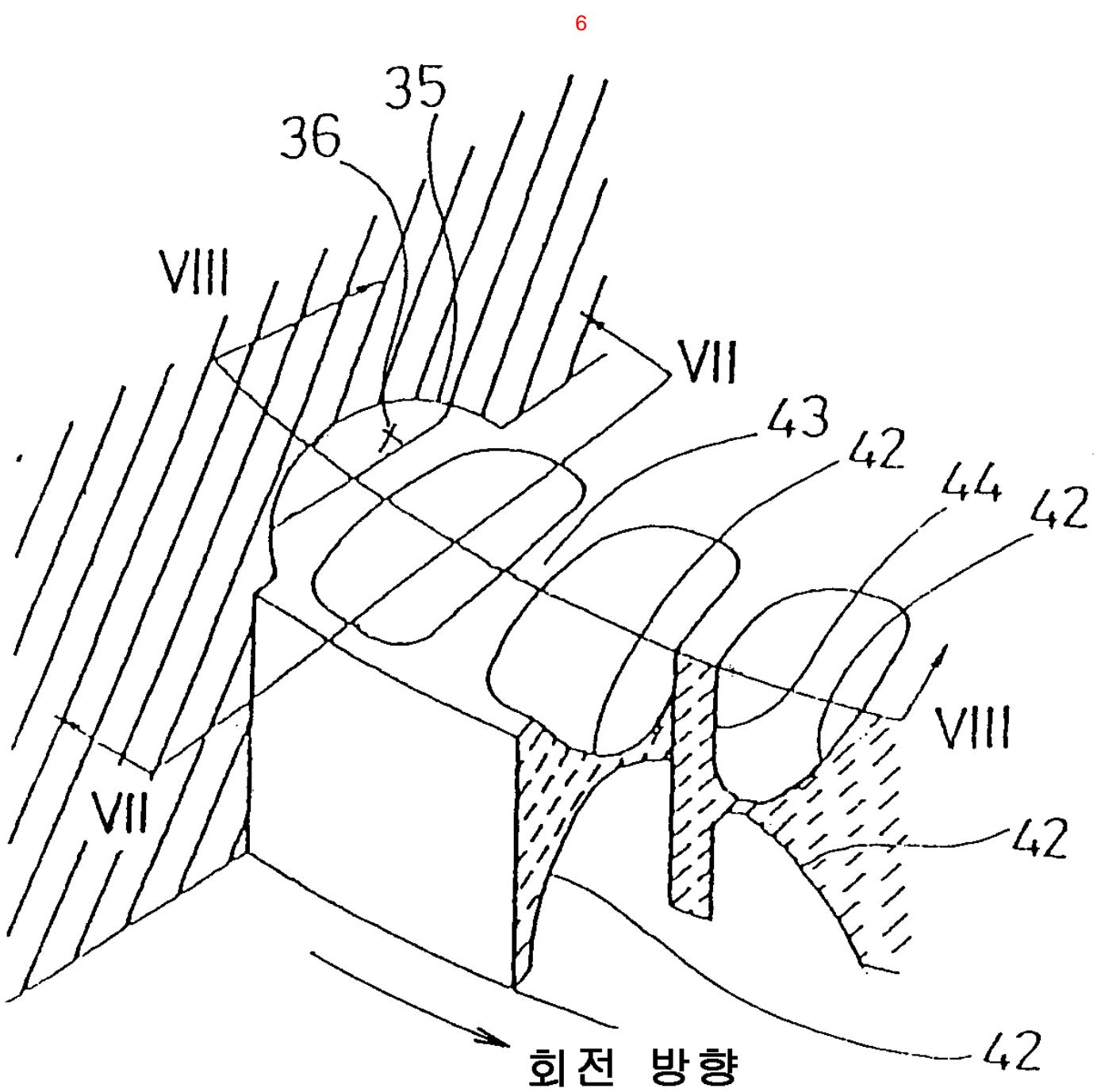
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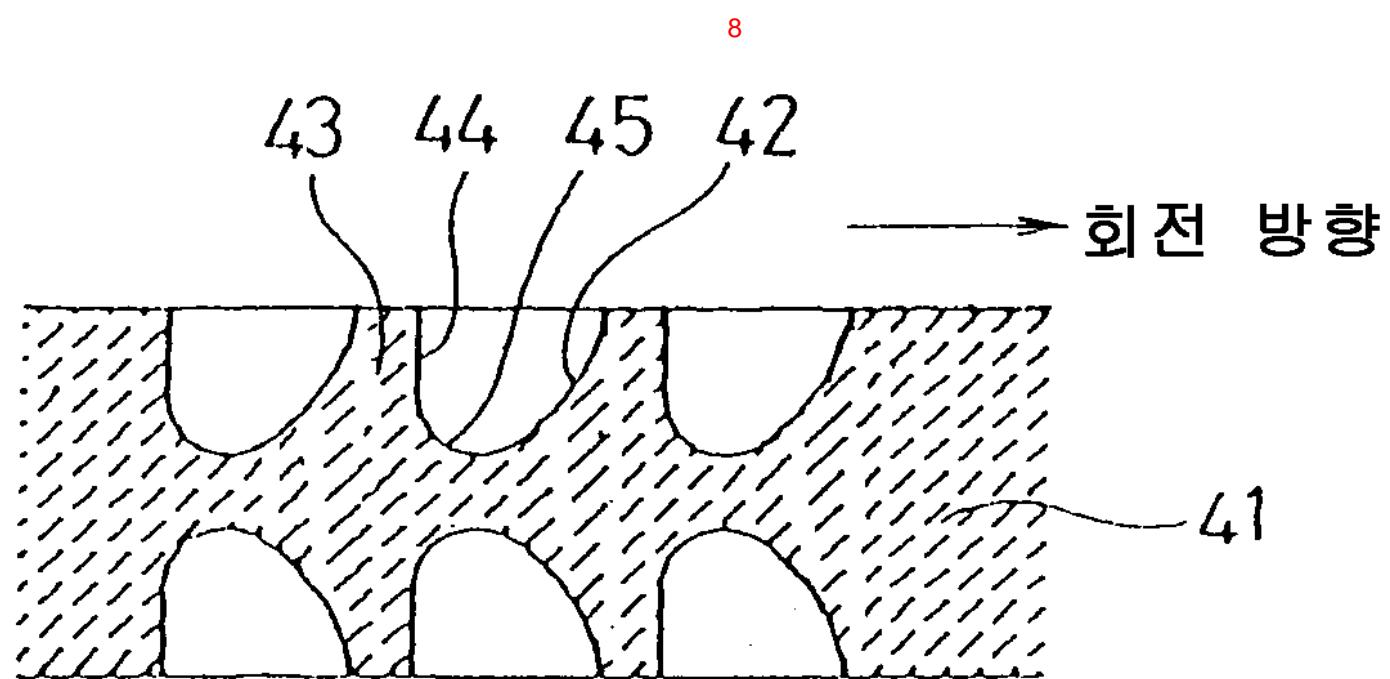
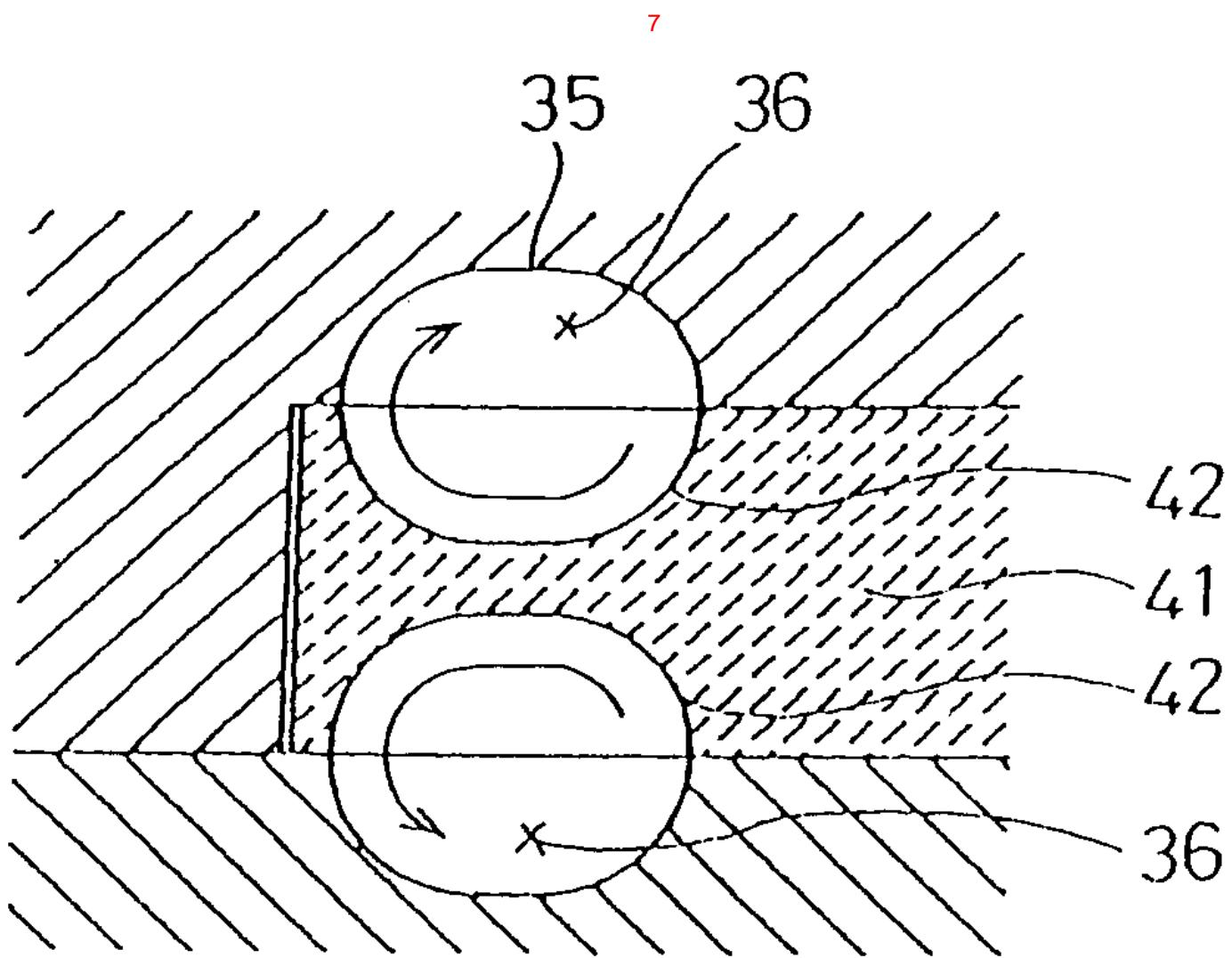






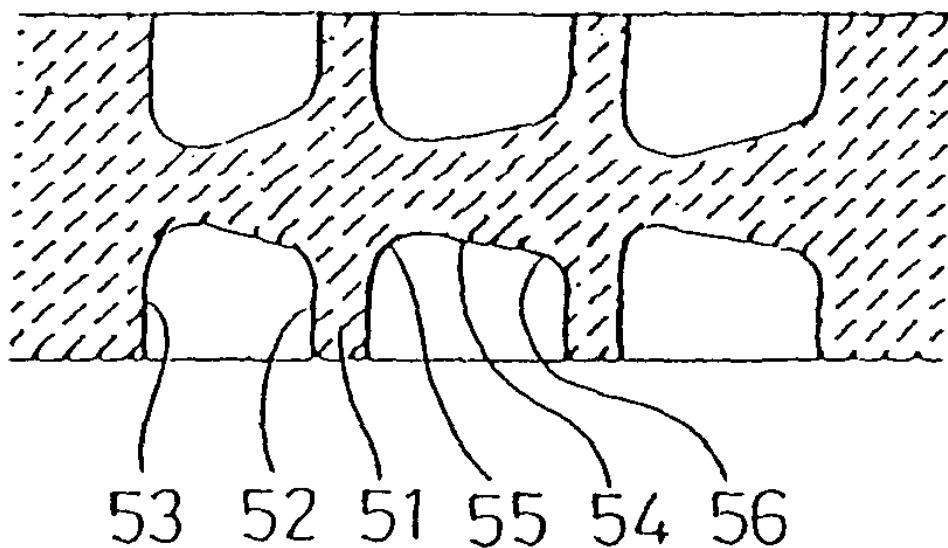






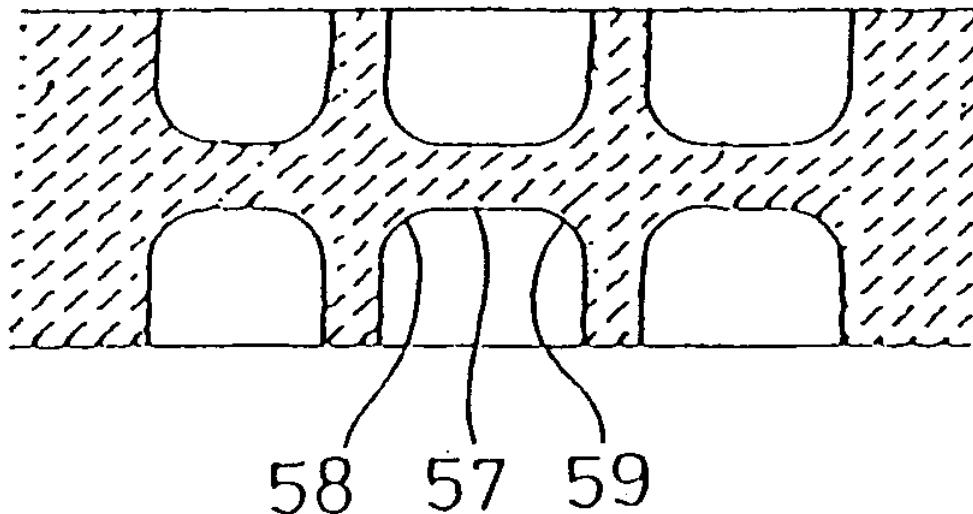
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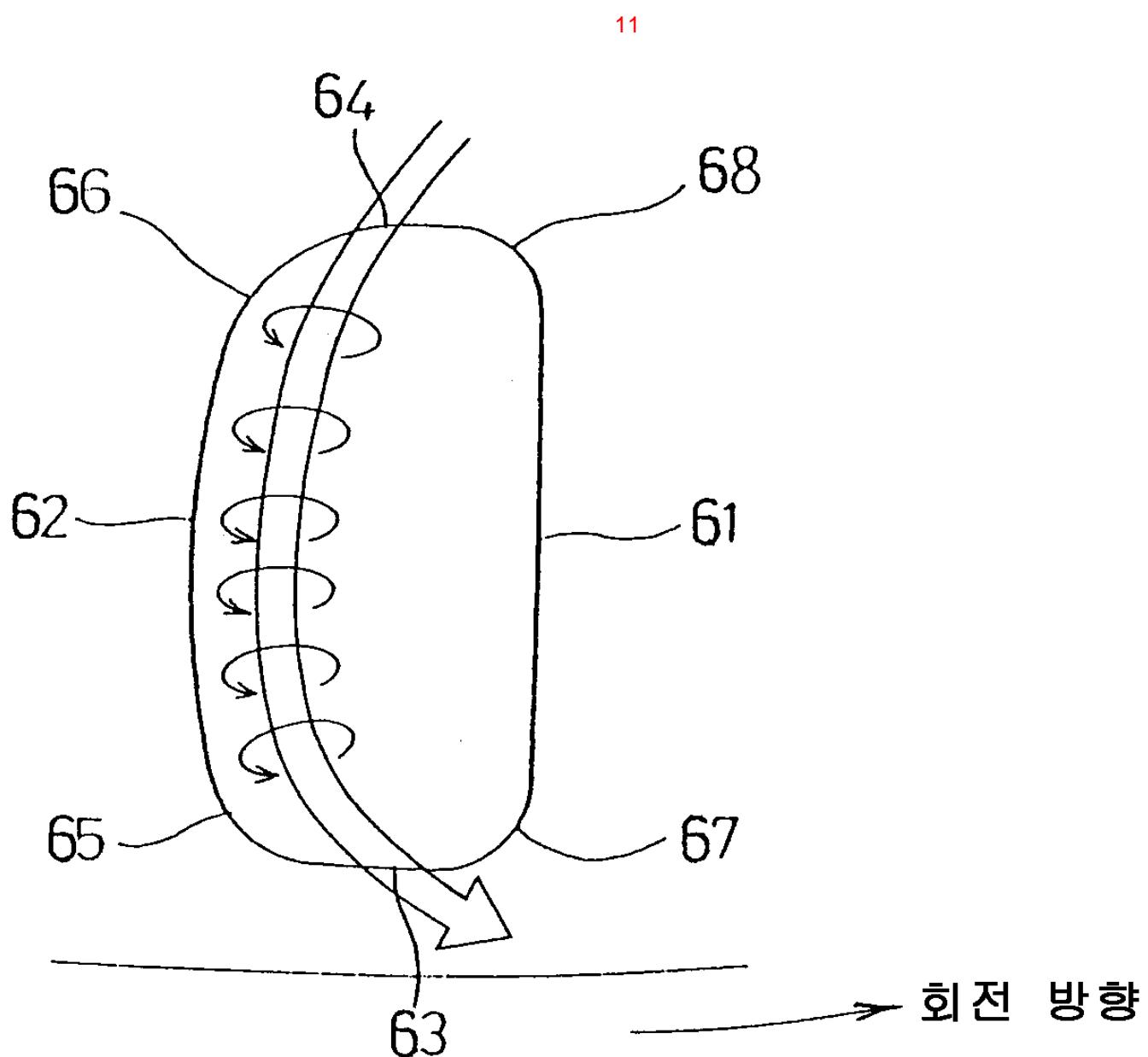
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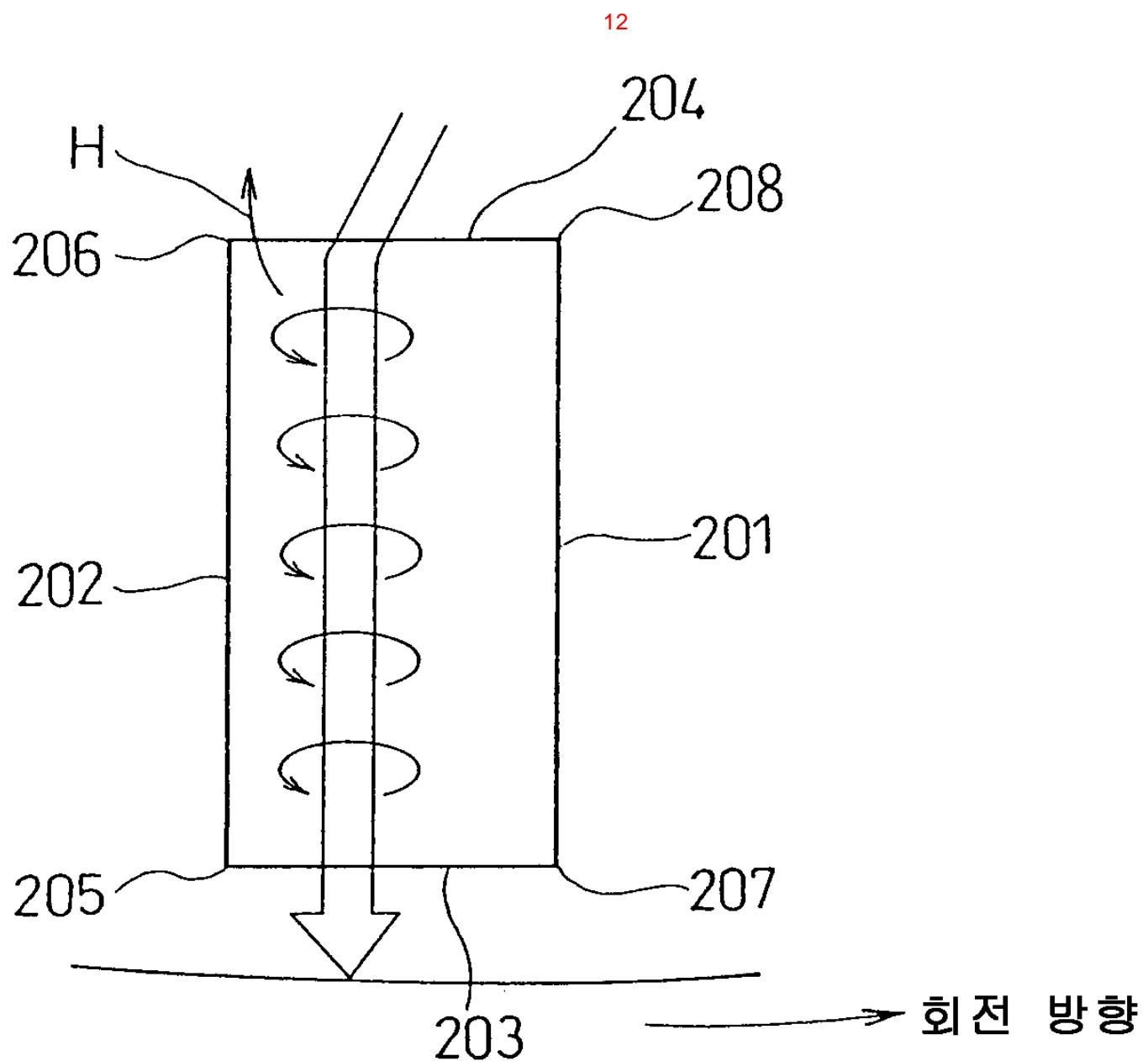


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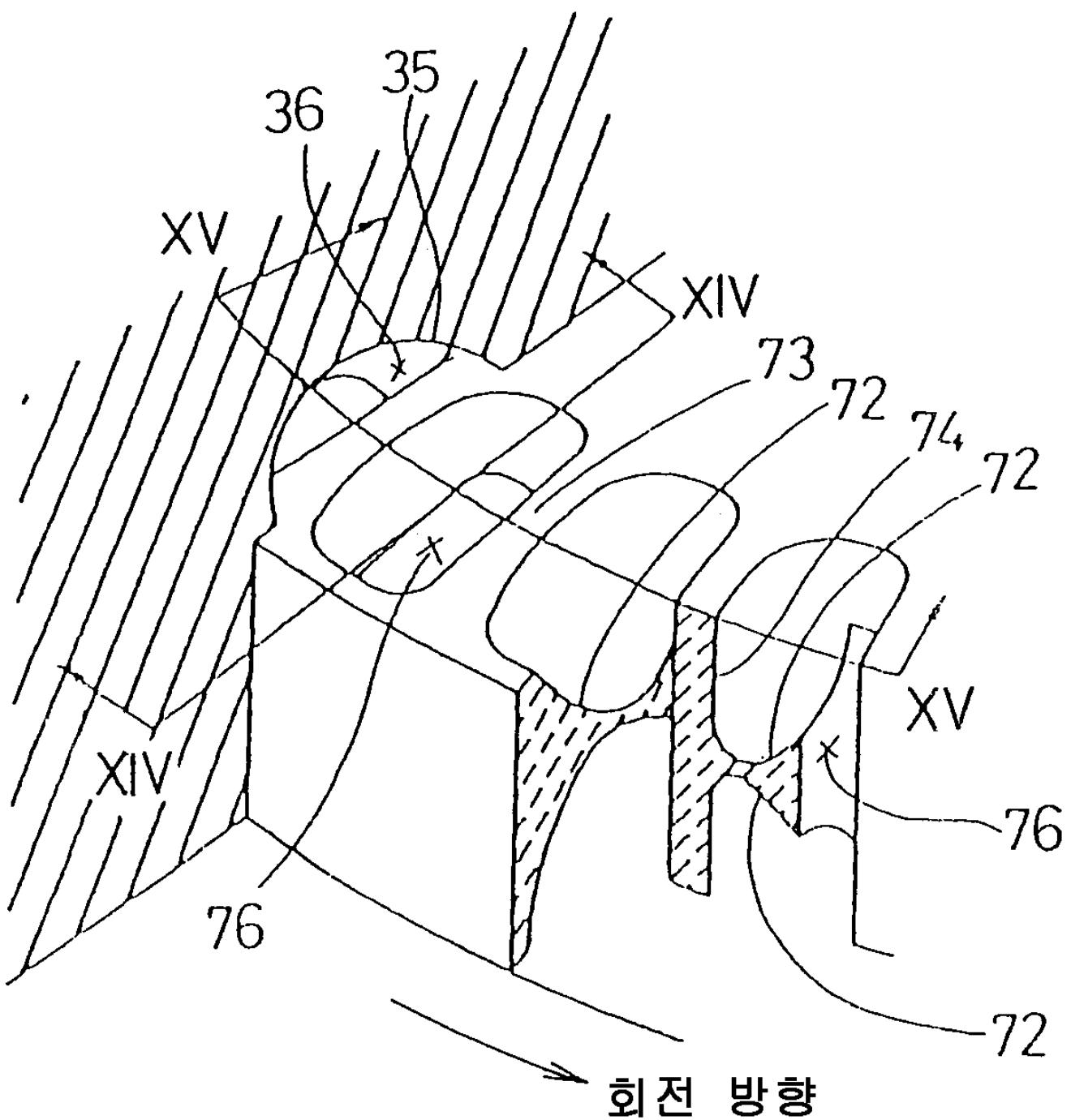
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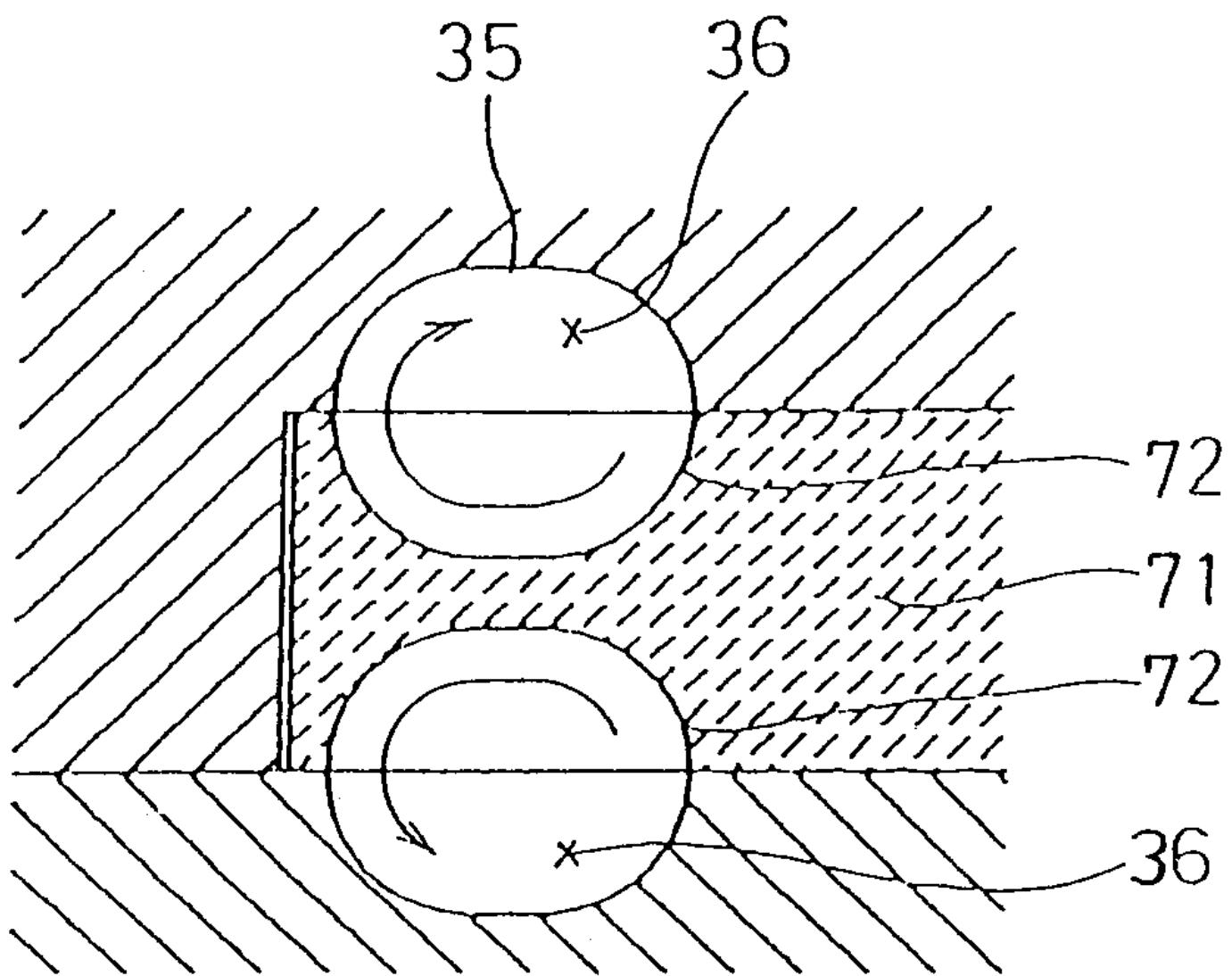




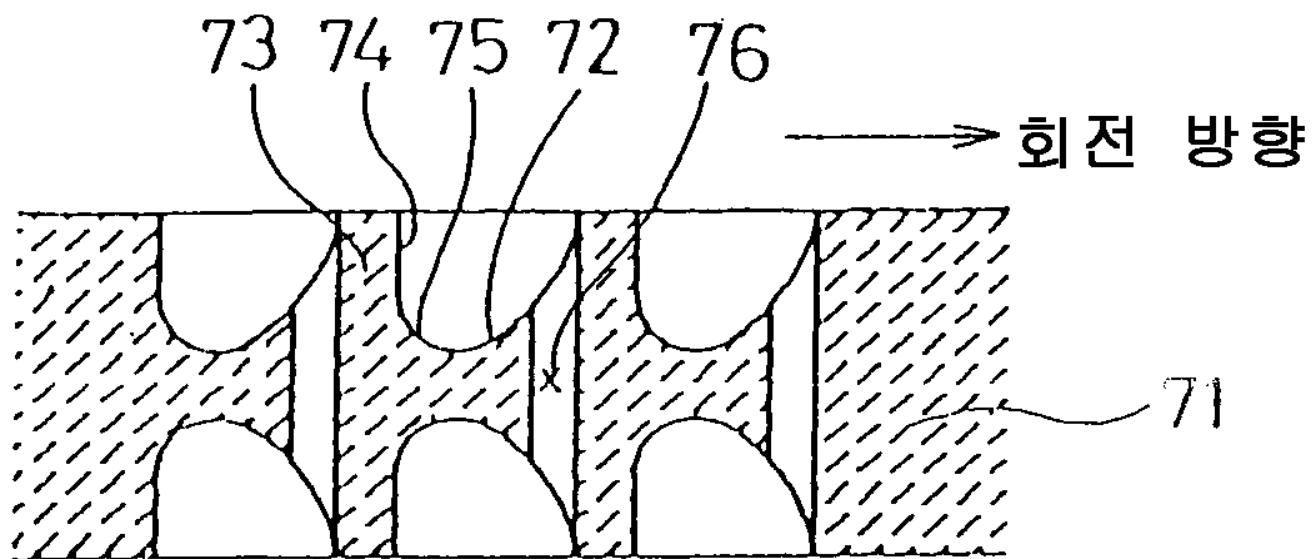
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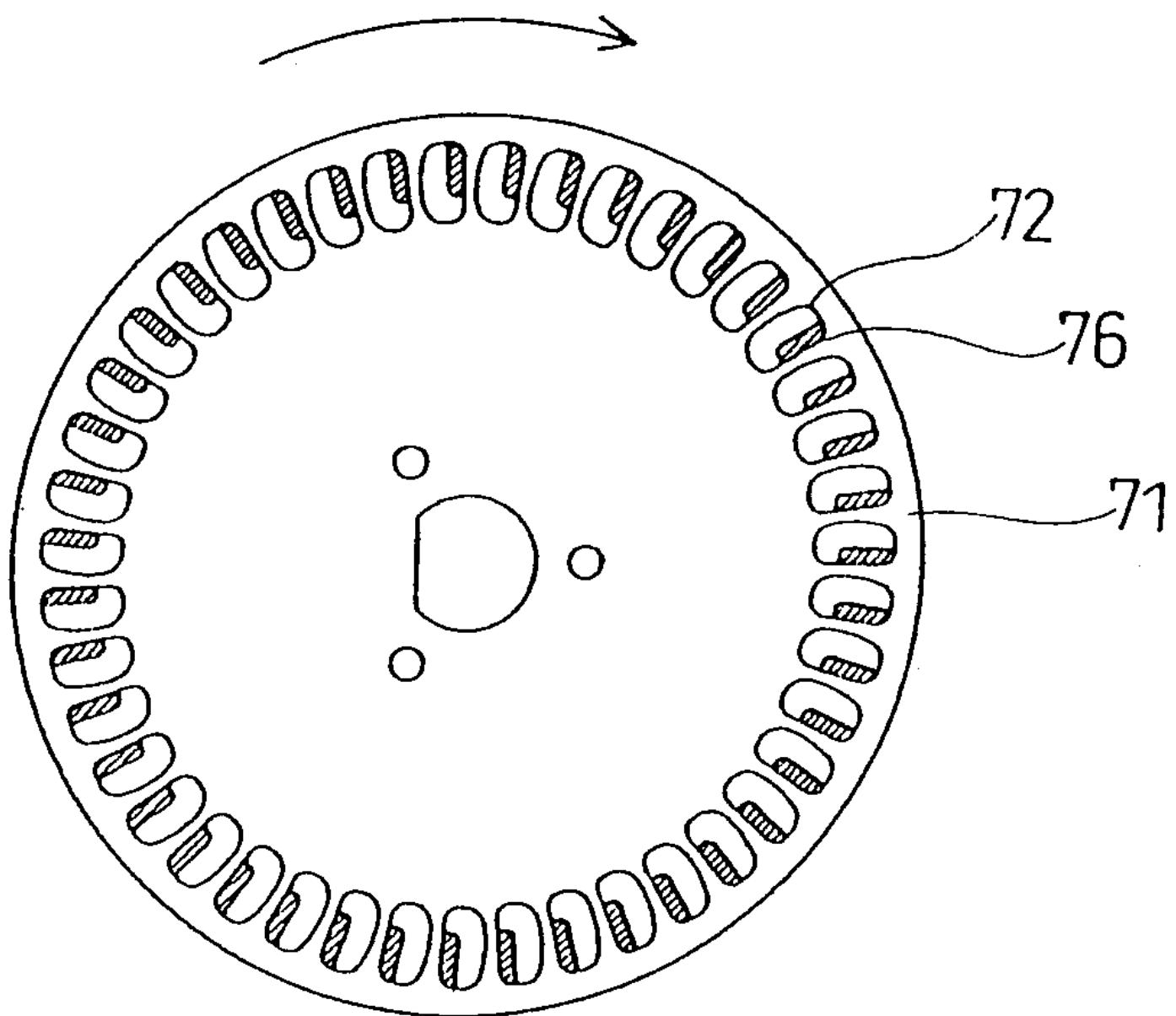


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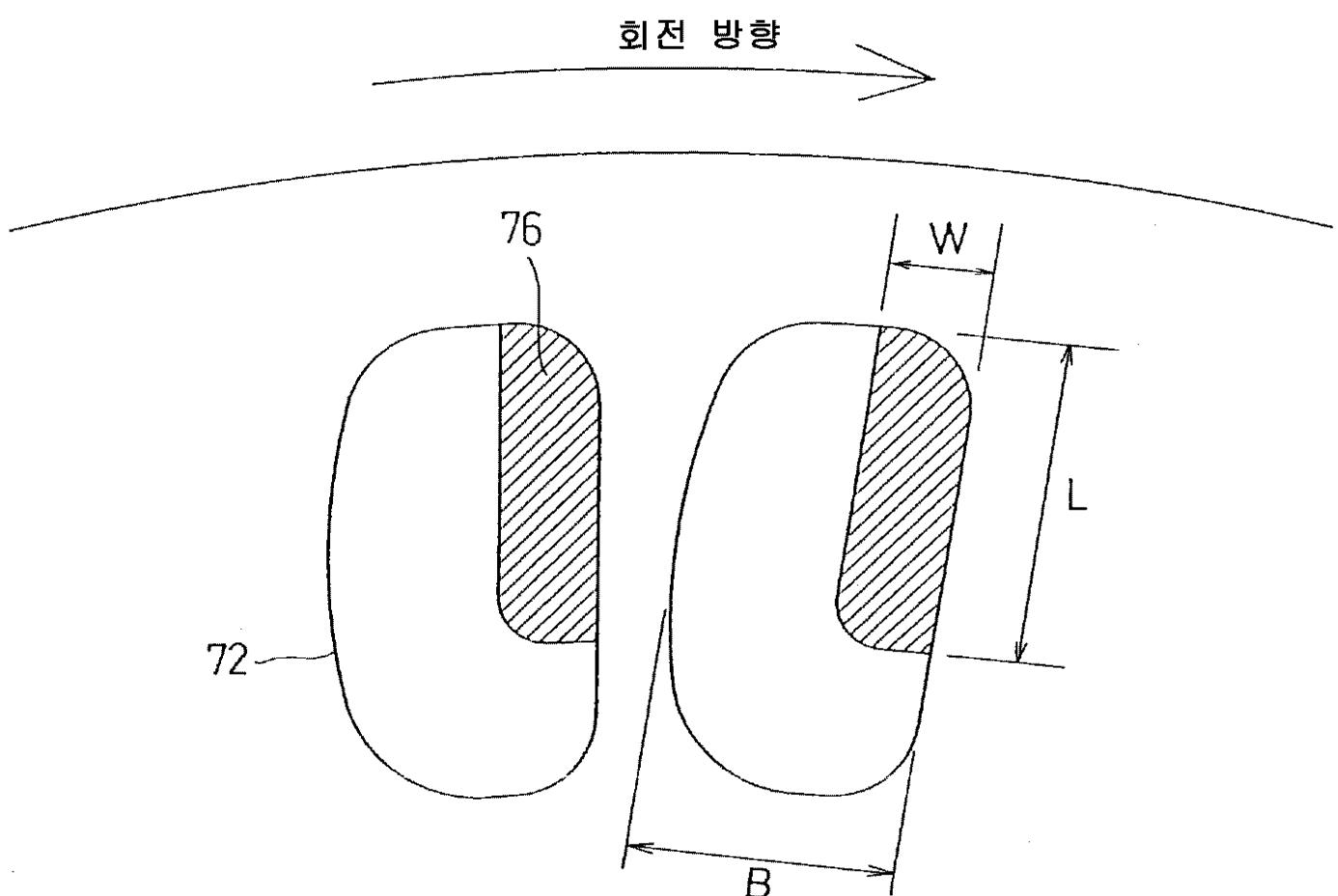


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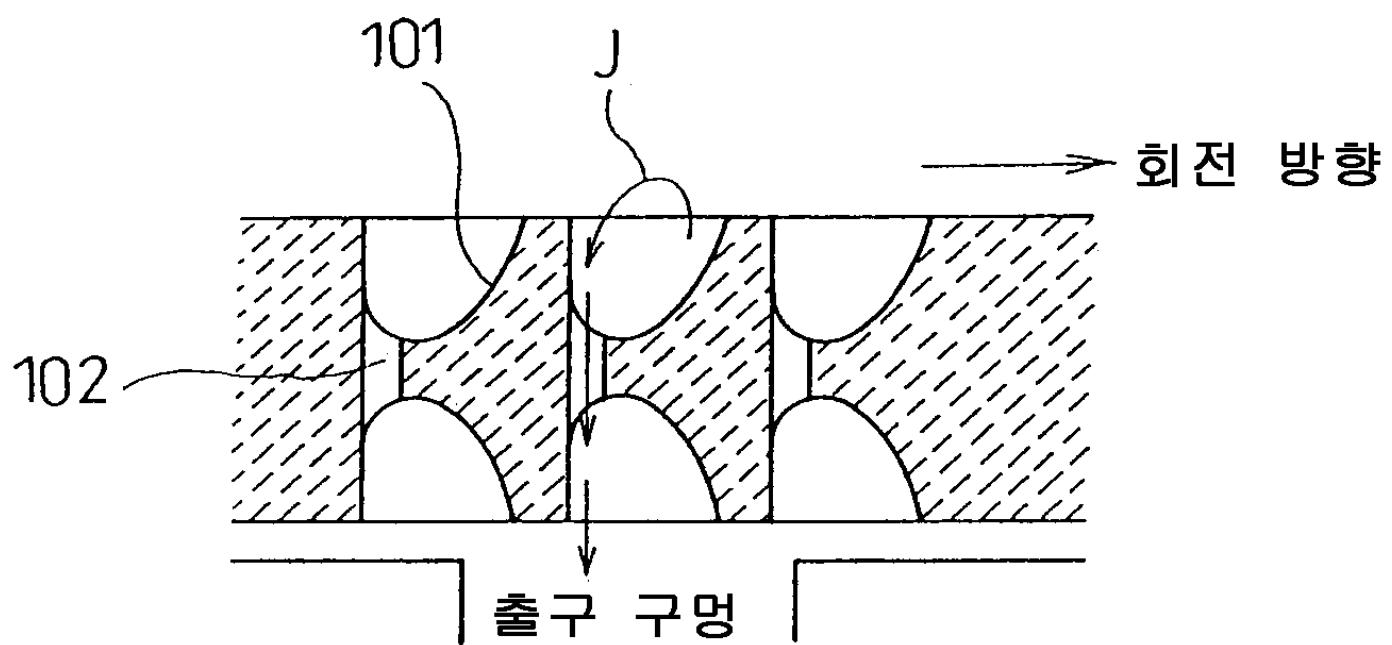
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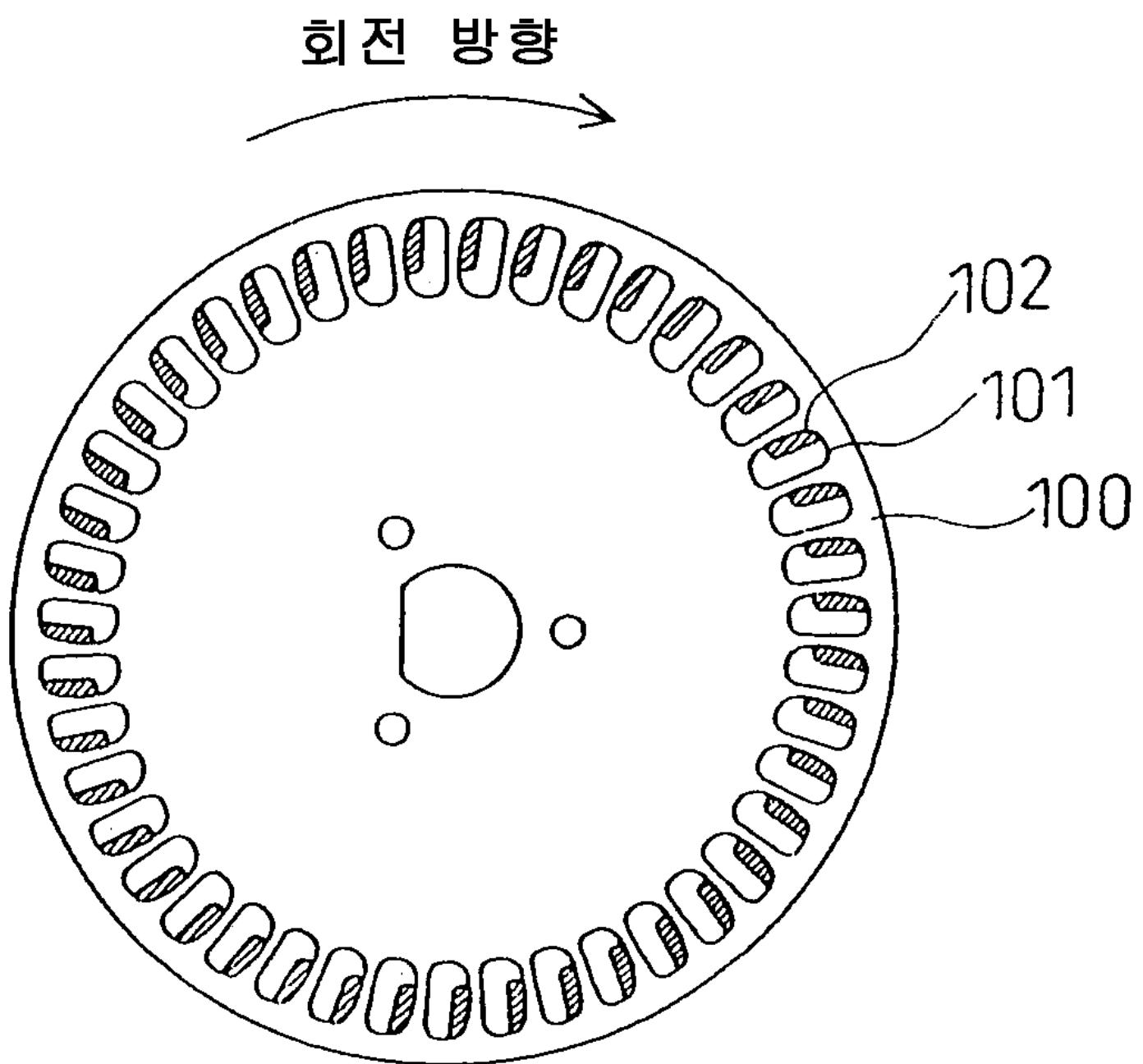
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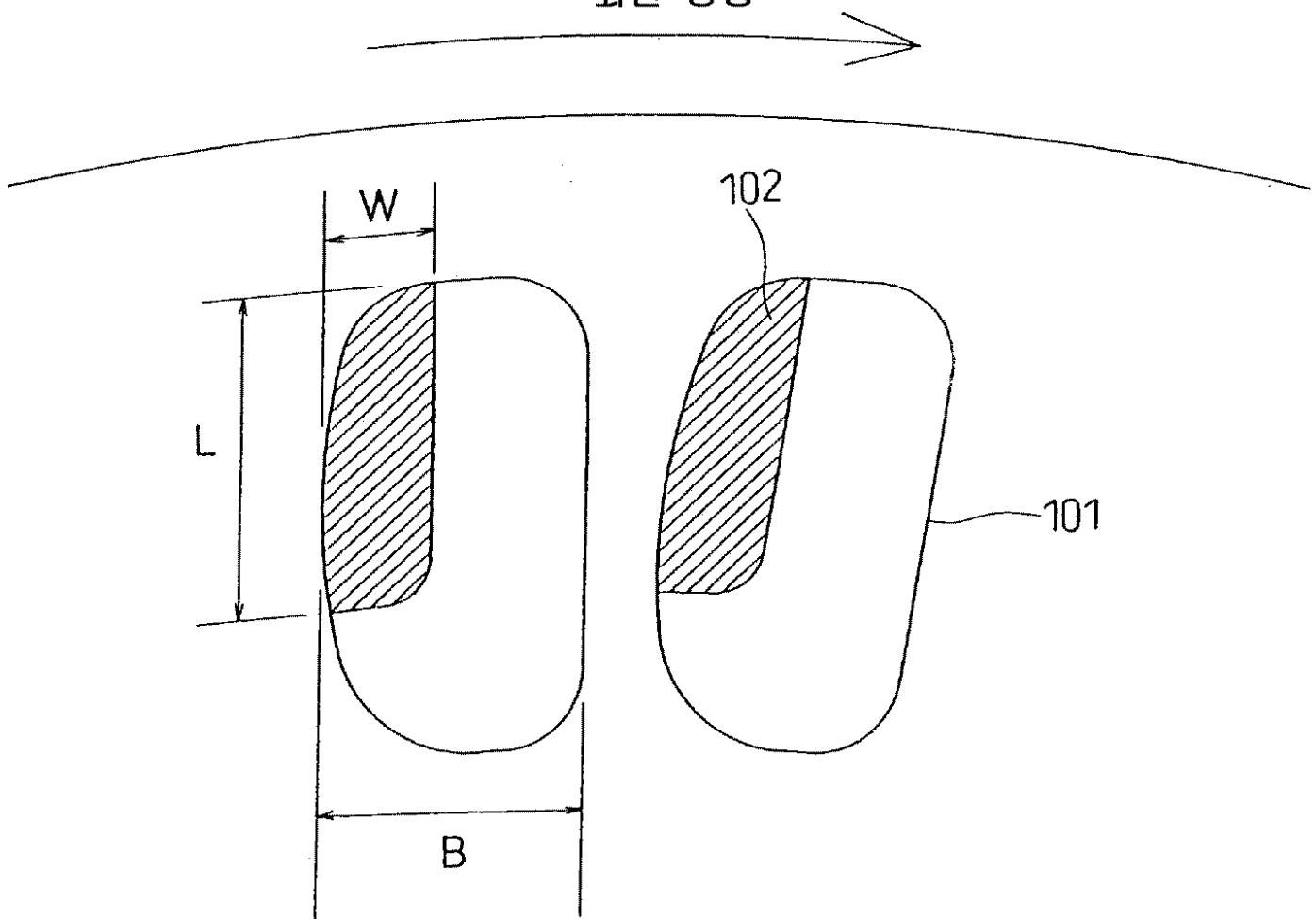


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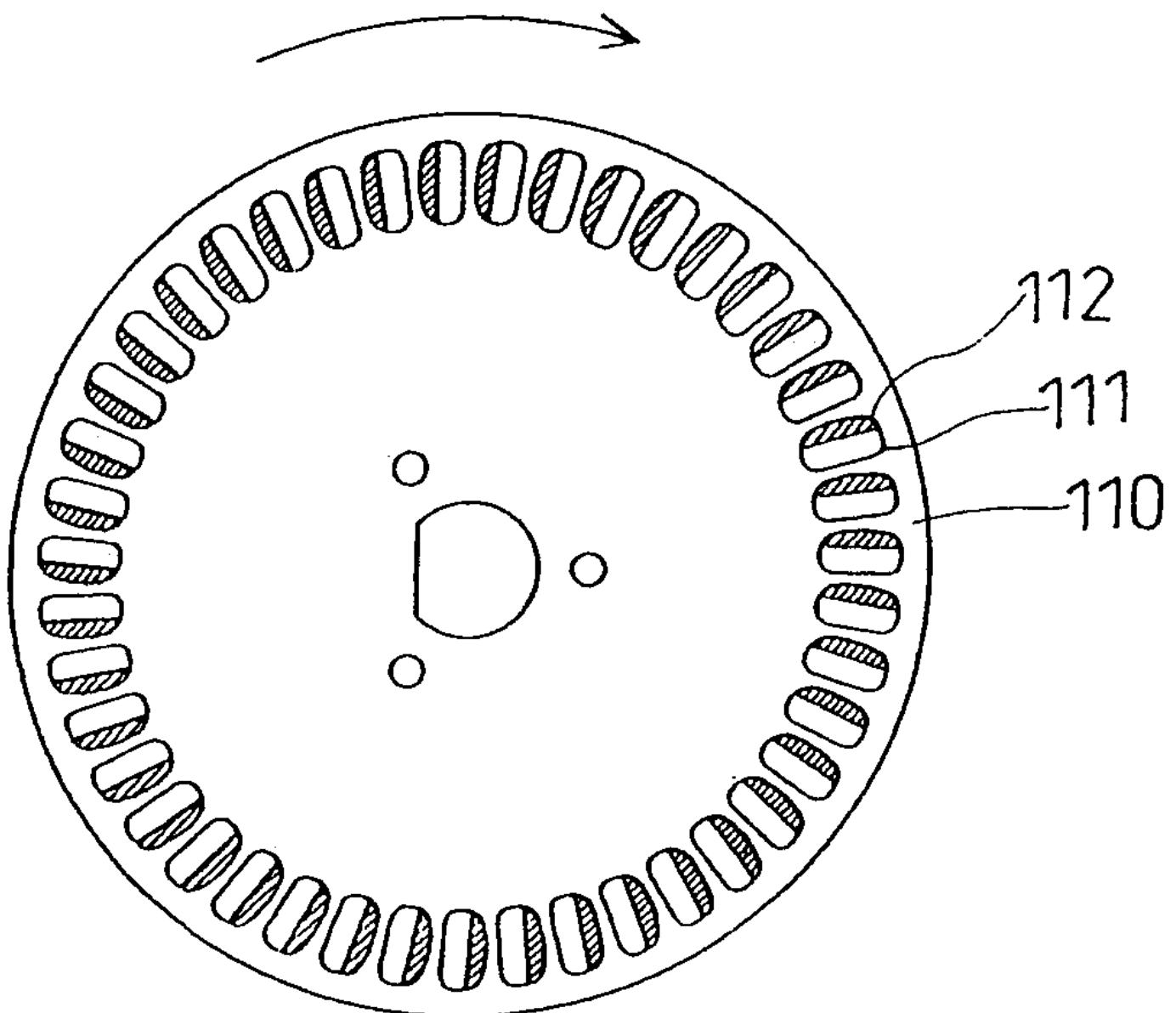
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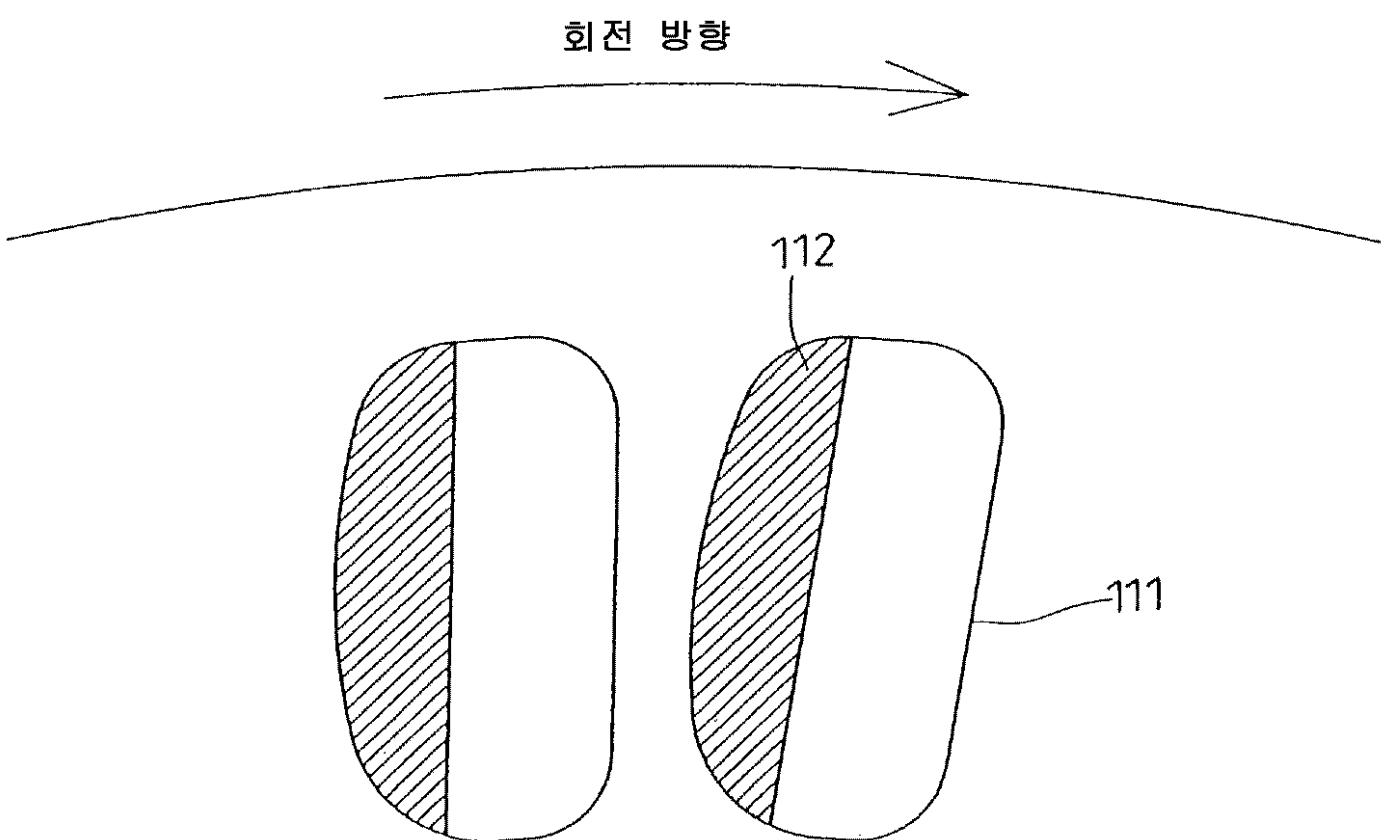


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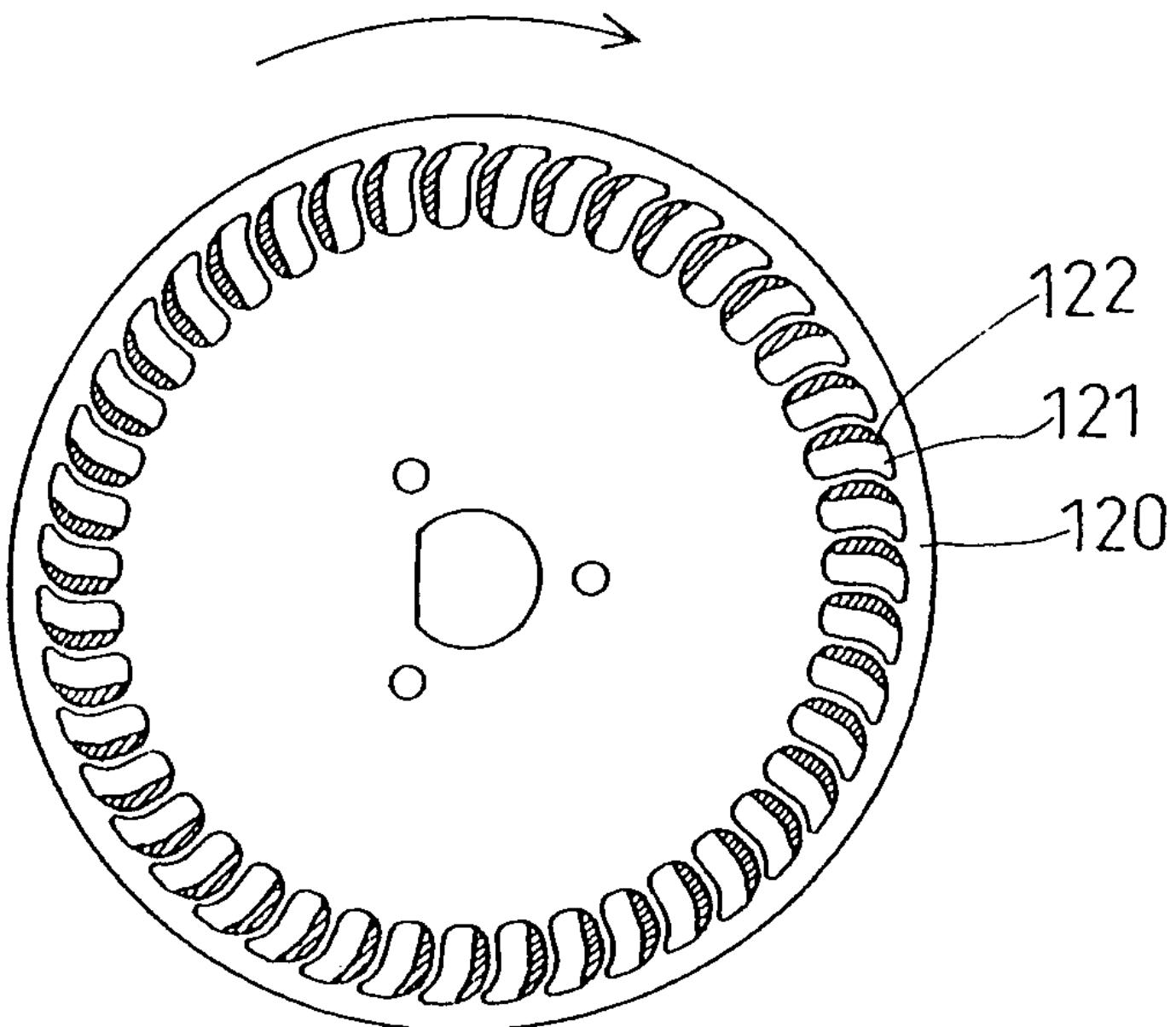


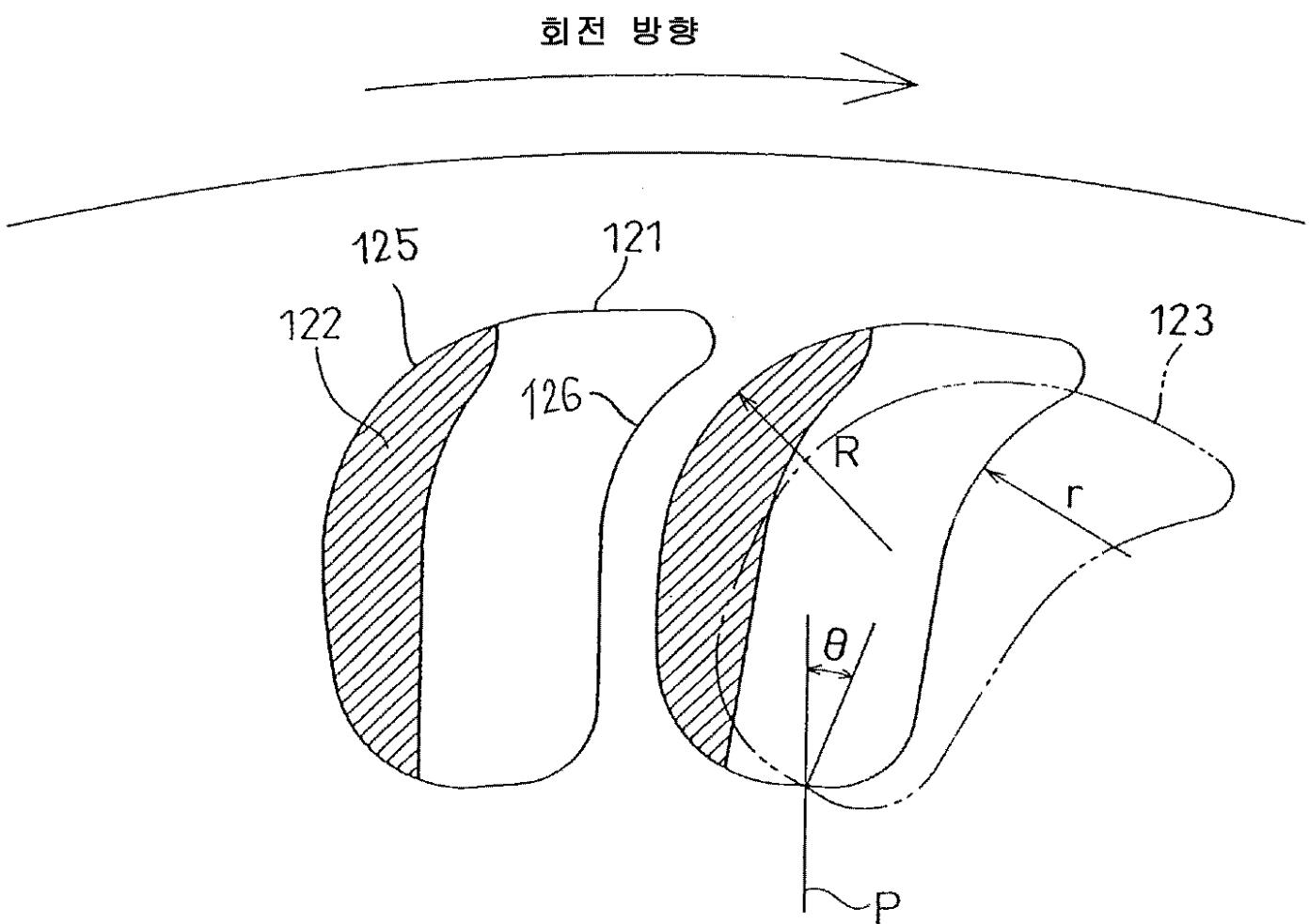
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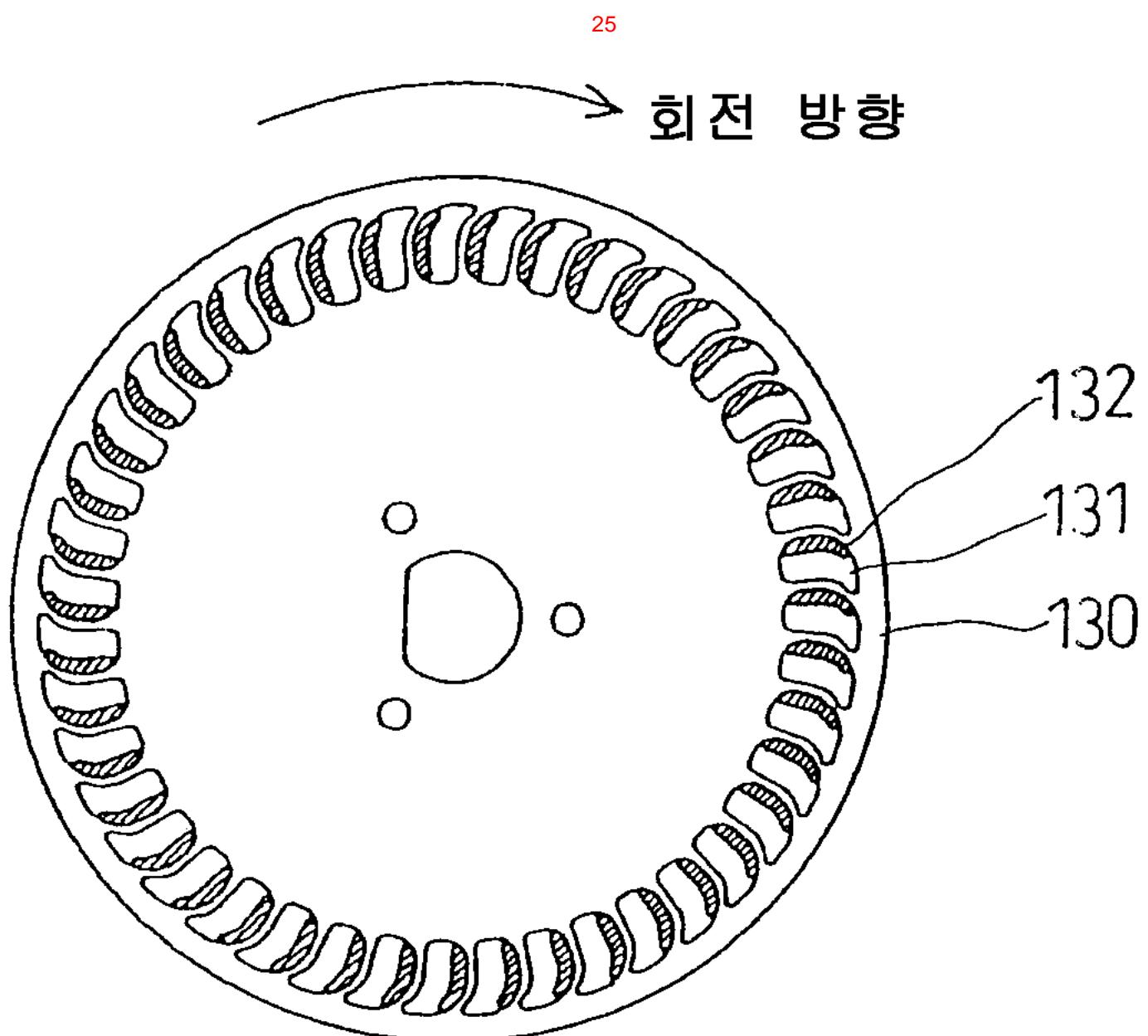


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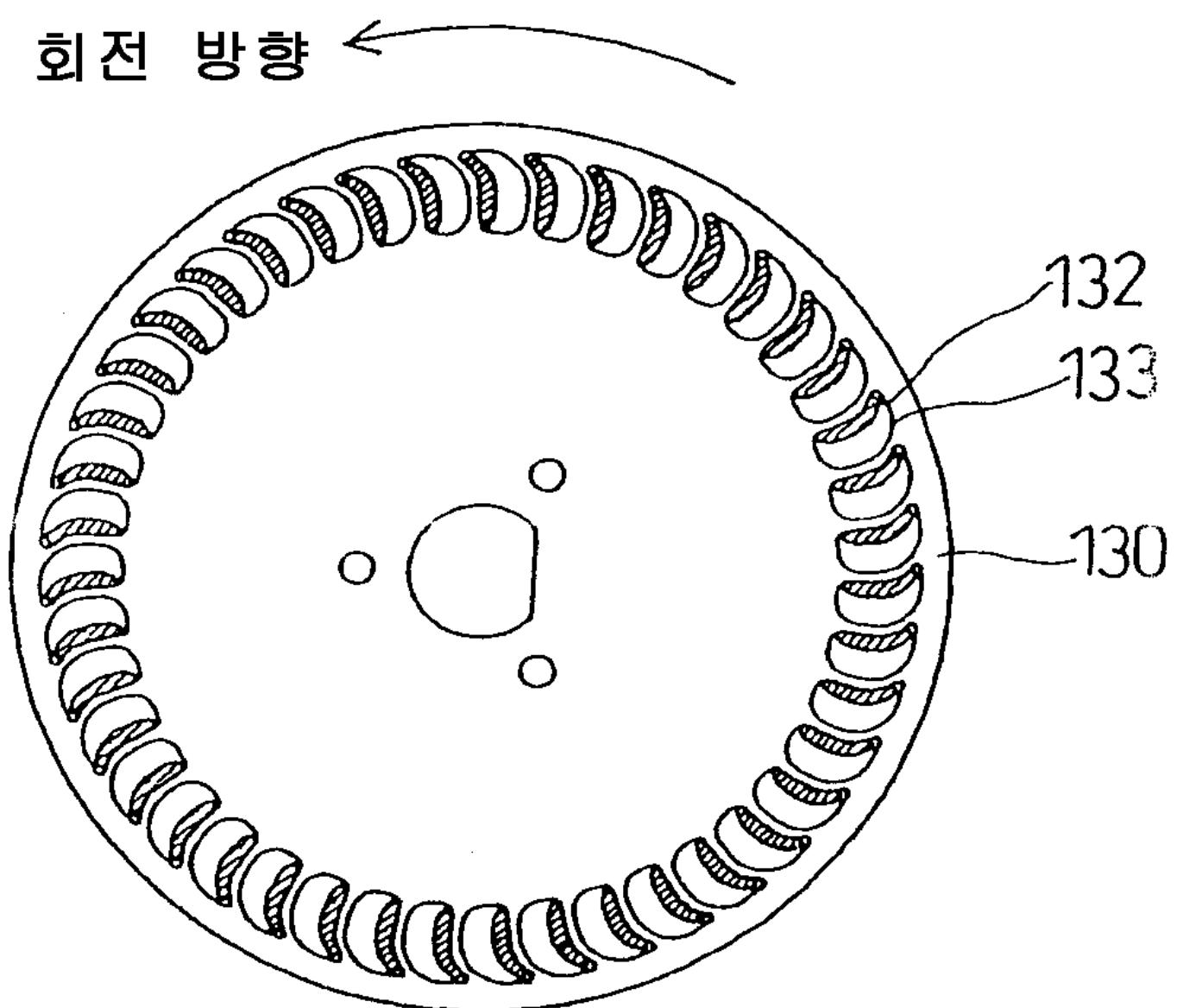
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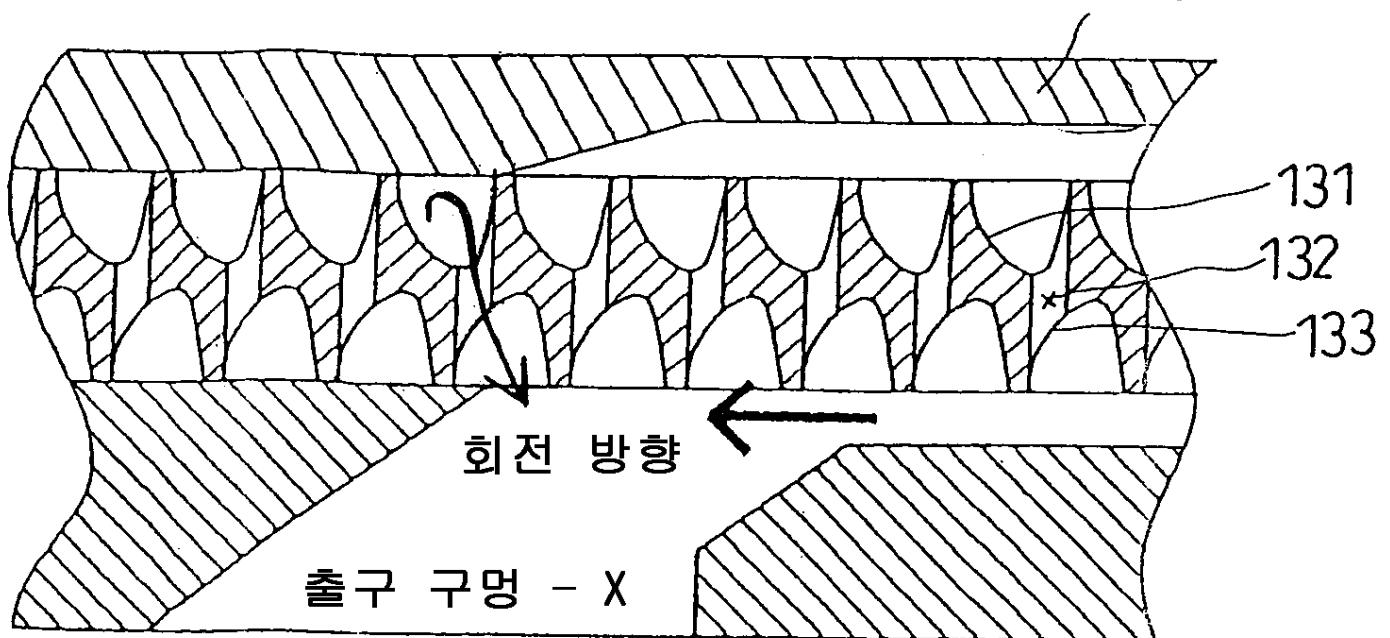




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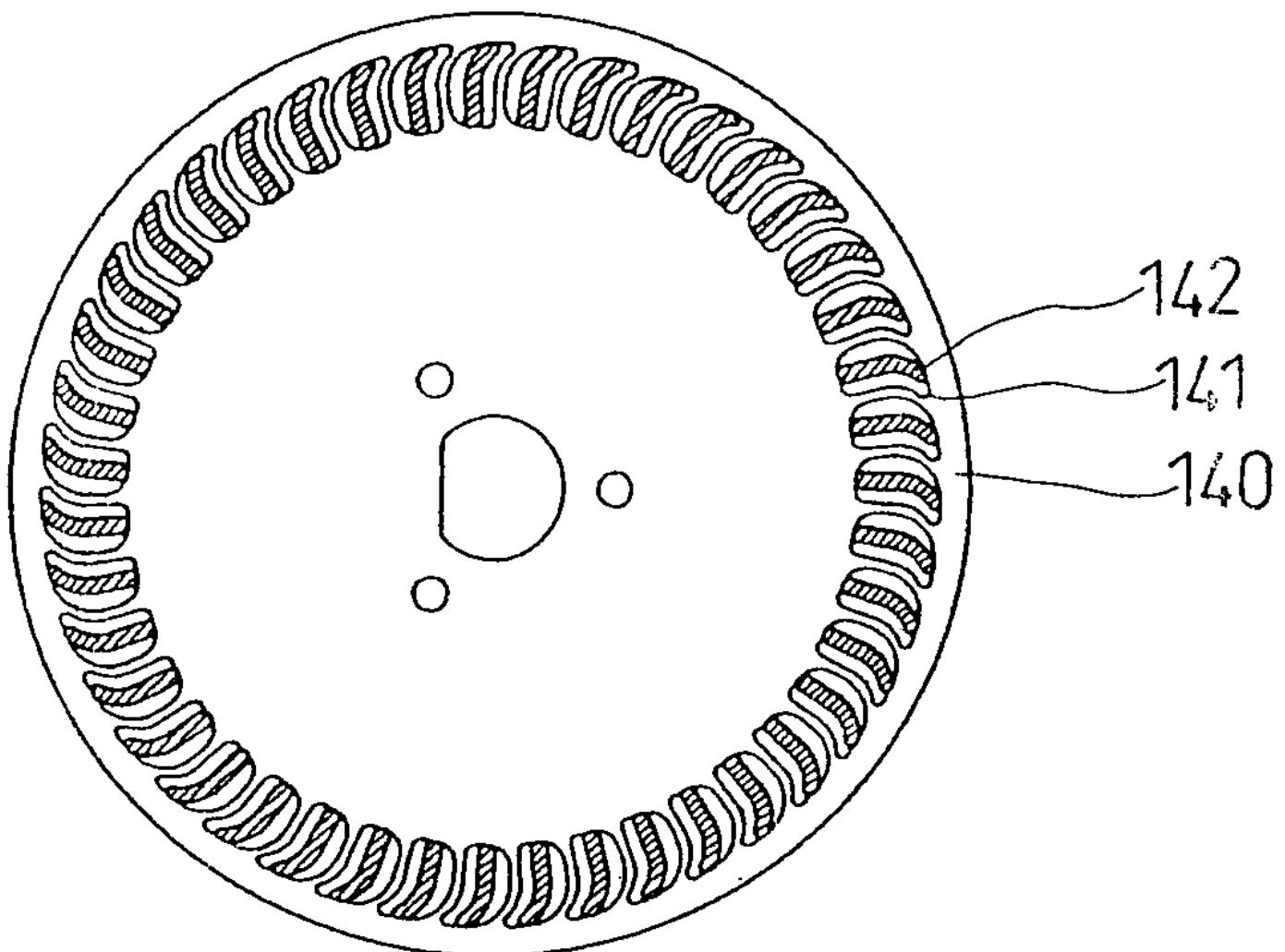


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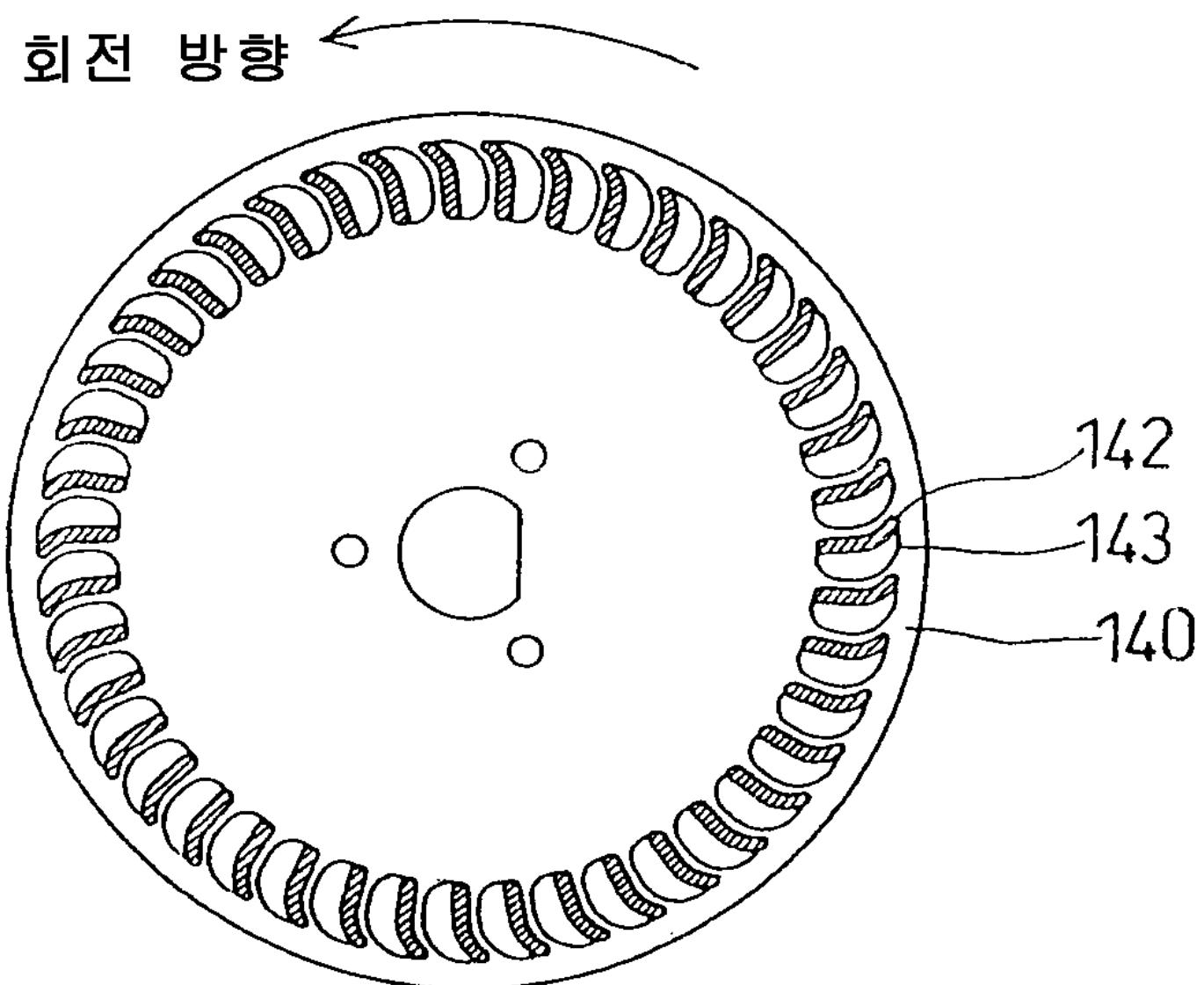


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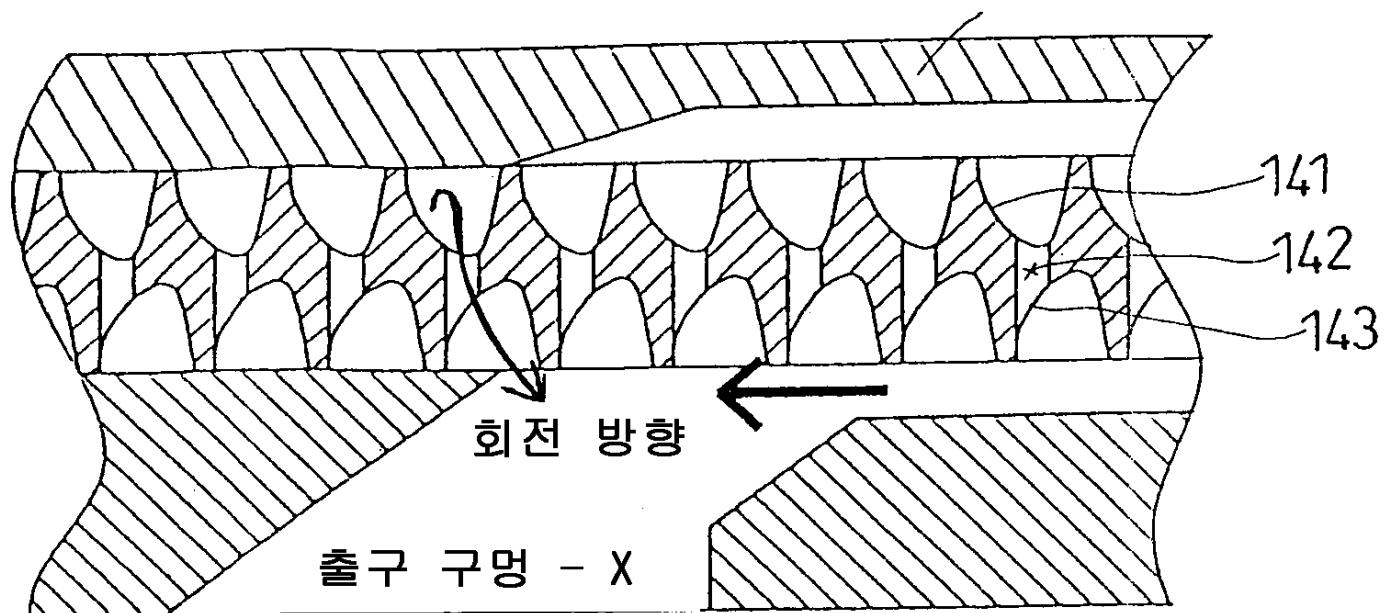
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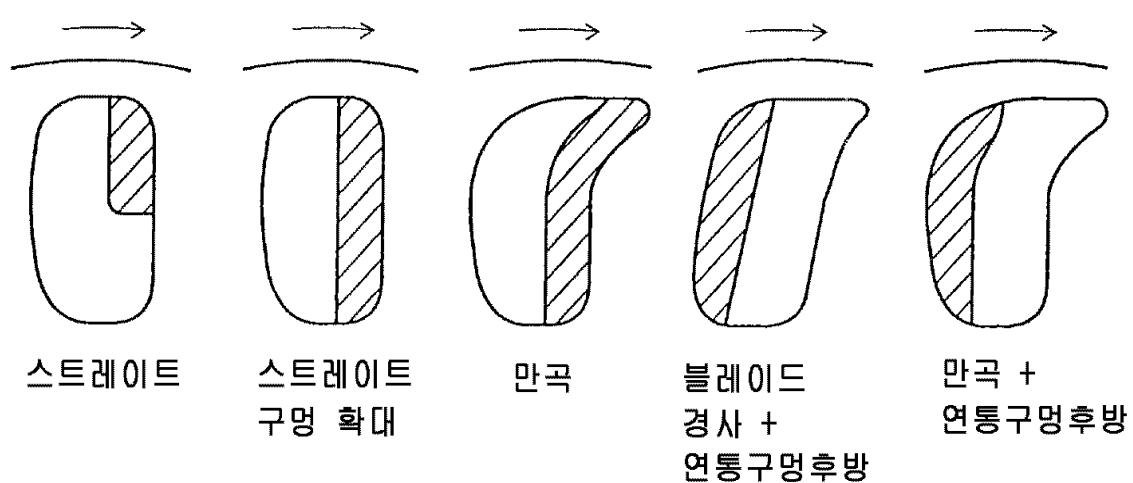
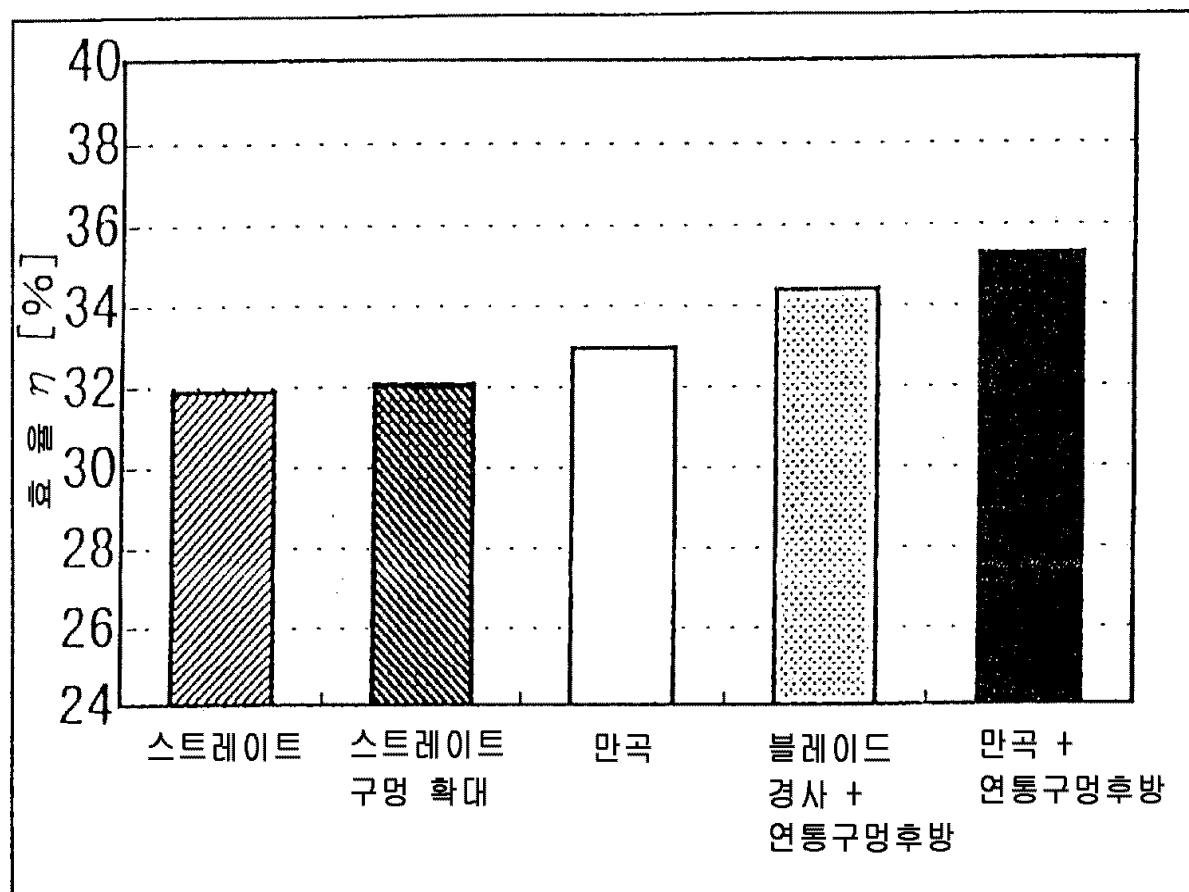


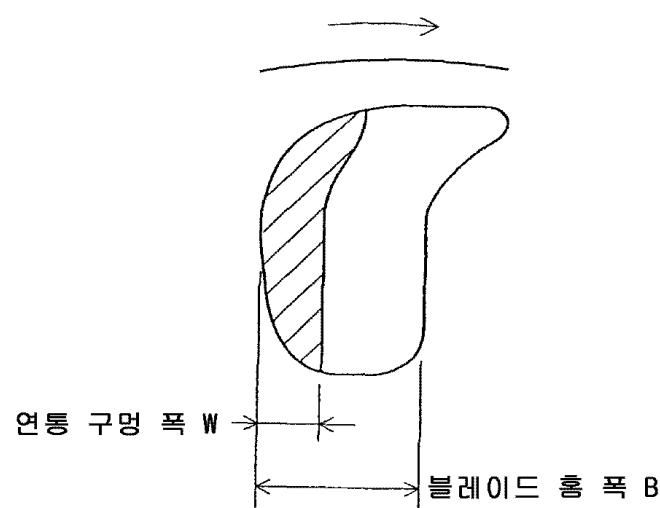
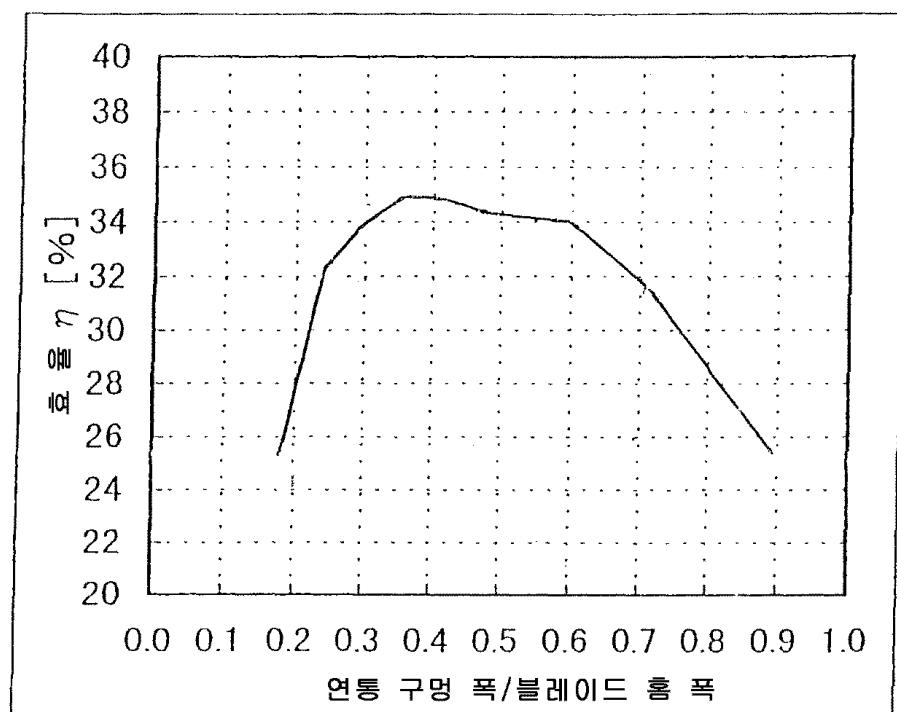
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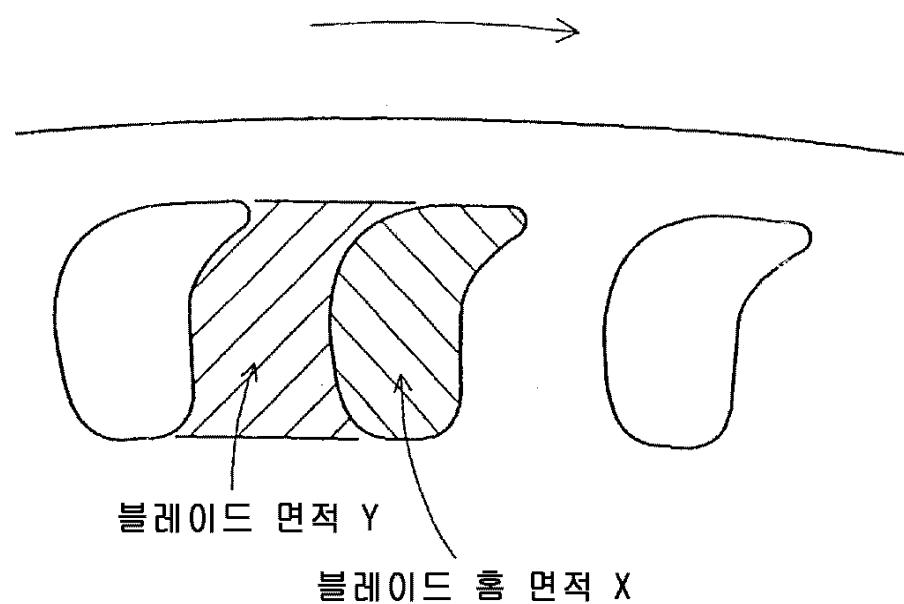
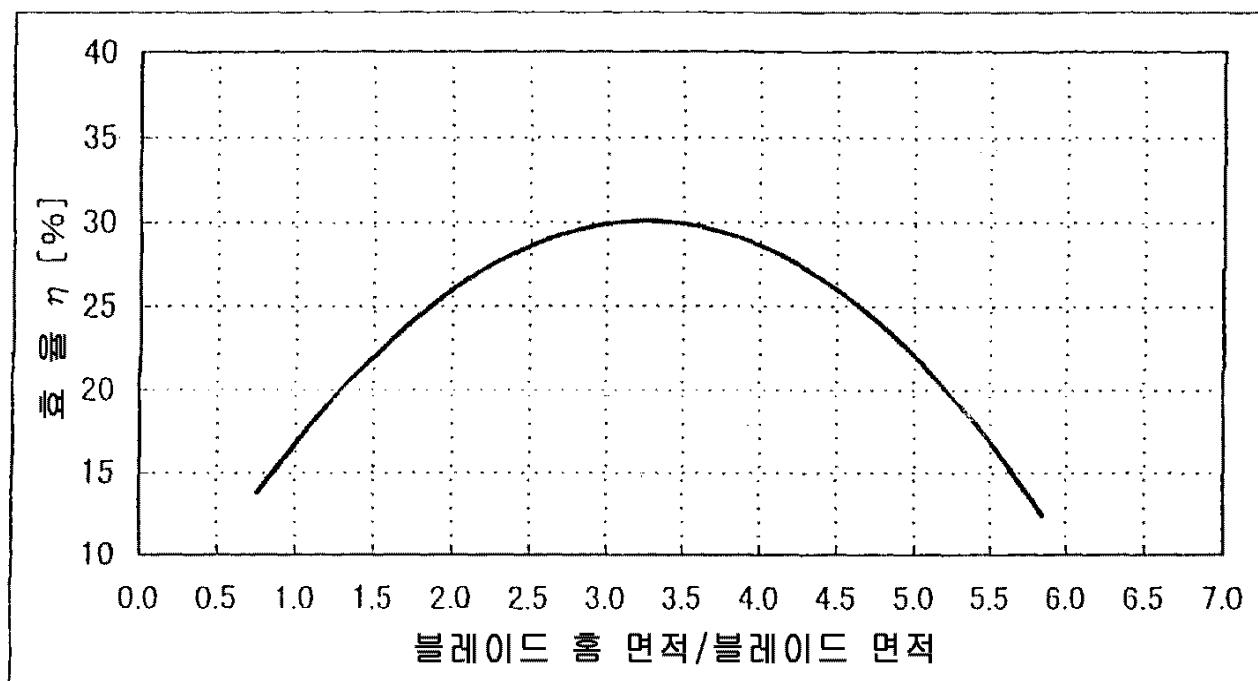


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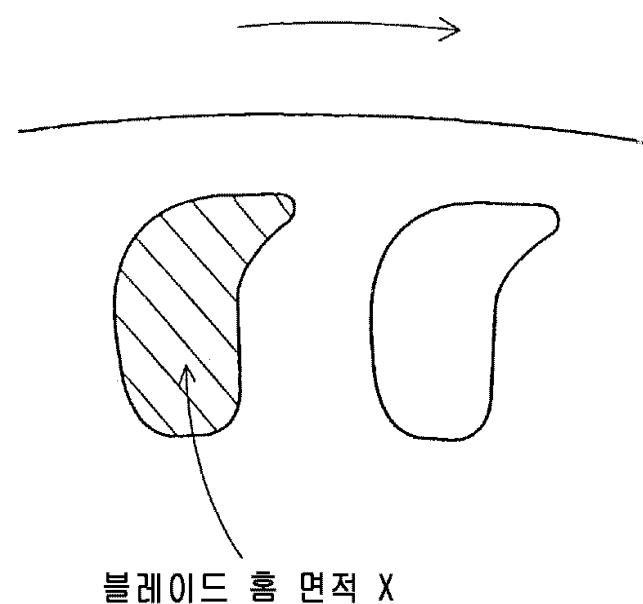
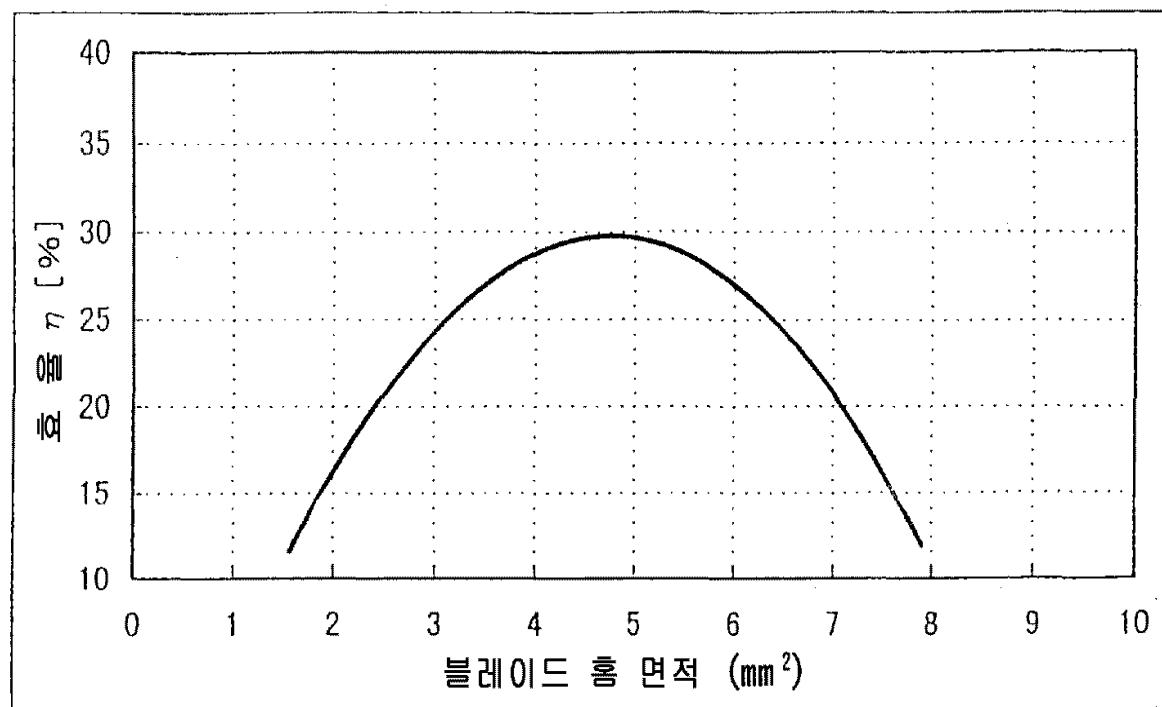


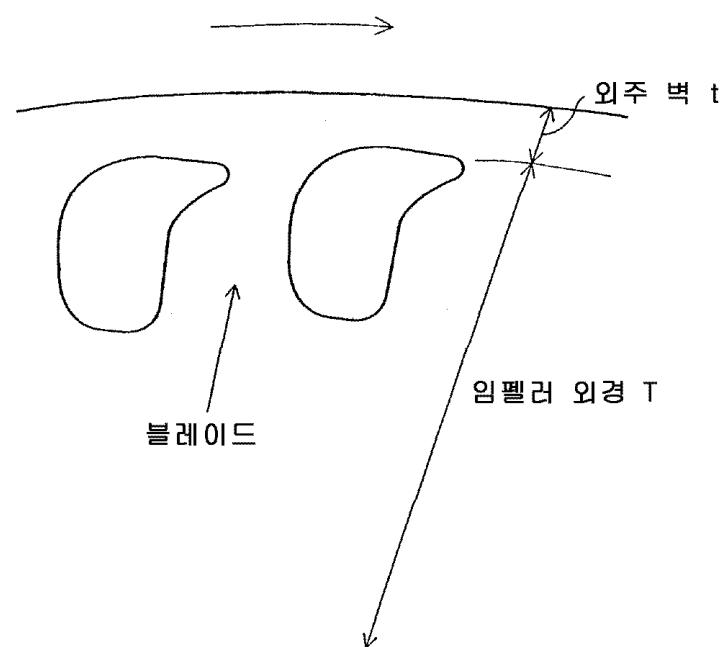
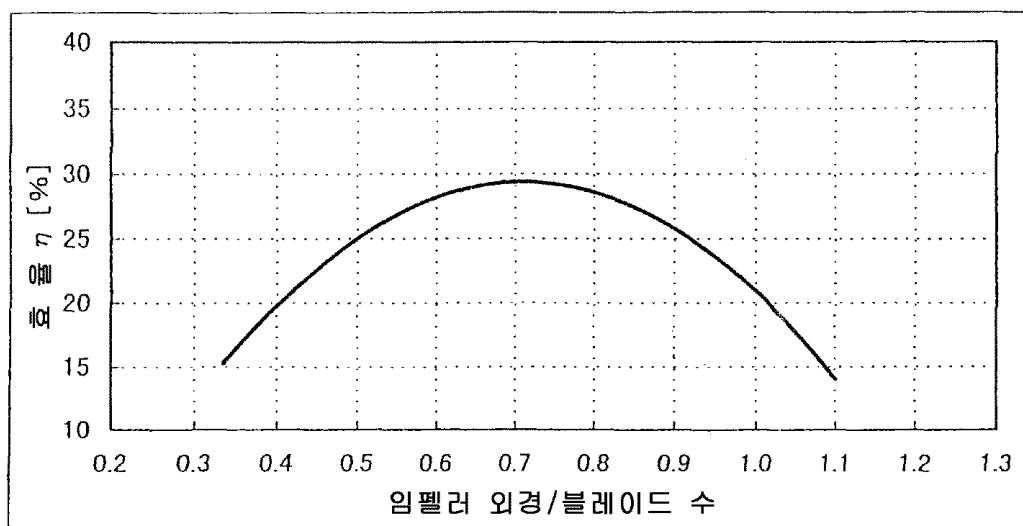


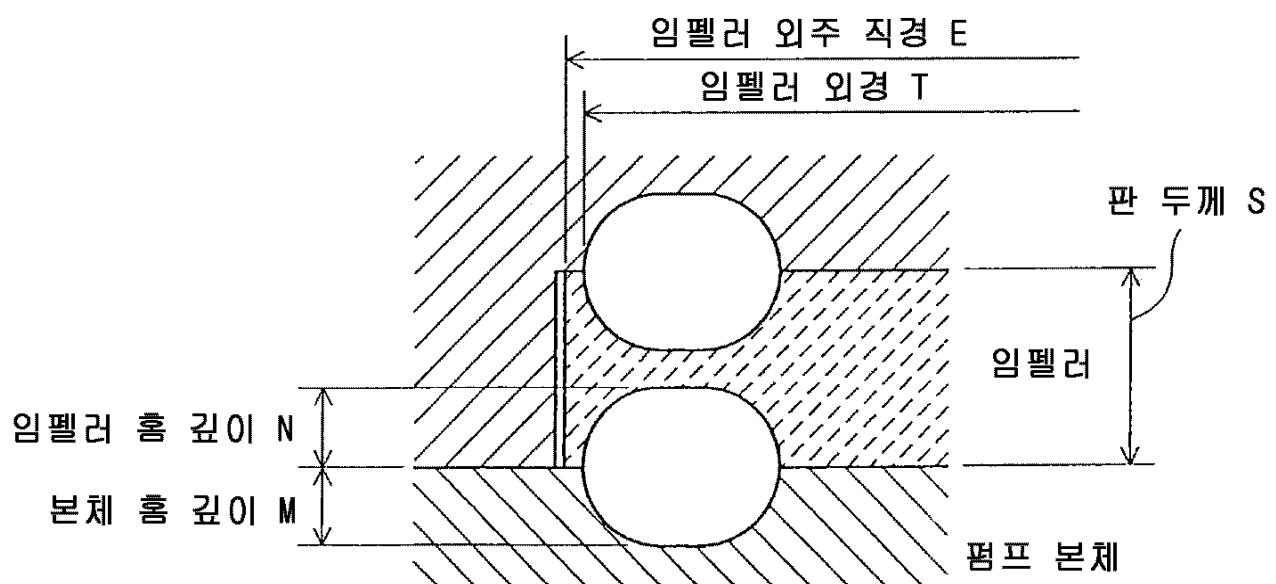
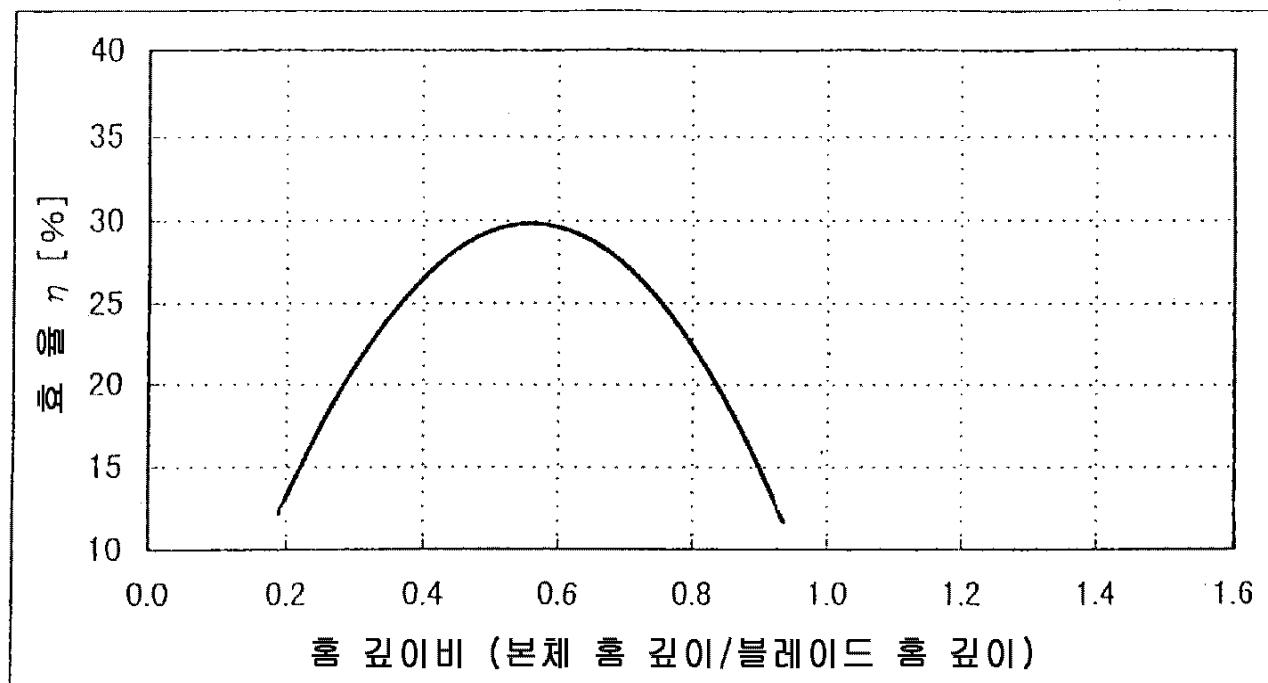




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