

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
B03C 1/02
B03C 1/0355

(11)
(43)

2002 - 0004632
2002 01 16

(21) 10 - 2000 - 0038698
(22) 2000 07 06

(71)

1

32

(72)

32 ()

700

32 ()

32 ()

700

(74)

:

(54)

()

(3) (19a) 가 (11)
 (12) (10); (11) , , (23a)(23b)
 , (23a)(23b) , (22) (21a)(21b)
 (12) 가 (20); , (23a)(23b)
 (31) (11)
 (30); .

2

, , , , ,

1

,

2

,

3

,

4

,

5

.

*

*

2 3

4 5

11 12

21a,21b ... 22

23a,23b ... , 31

32 32a

32b 33

33a 38

()

(1a) (1) (2) 1 (dirty tank)(2) 1 mm

(2) (hoffman filter) 1 가 (3) 2

(suspension) (3) (3) (1)

(high gradient magnetic filter) 1975 (C.de Lauter a nd H. Kolm, IEEE Trans. on Magn., MAG - 11(5), 1975, p.1570 J.A. Oberteuffer. I. Wechaler and N.J. M cNallan, IEEE Trans. on Magn.,MAG - 11(5),1975,p.1591).

10

(solenoid coil) 가 (4,279,748 1981, 60 - 179109, 1985) , (rotary magnetic separator)(4,445,228, 1984)가

(electromagnetic) 가 가 가

가

가

;

, , 가 , , ; ,

, ;

1 , 2

4 , 3 , 5 ,

가 (4) 1 4 , (3) (5)

, (4) (10), (20) (30) .

, (10) 가 (3) (19a) (11) , 1,2 (11)

(11) (12) (5) (21a)(21b) (19b) ,

12) , , (11)(12) , (

, 가 (11)

(21a)(21b) , (20) (21a)(21b) (12) (22)

, (23a)(23b) , 가 (11) , (21)

(magnetic flux) 5 , 가 (22) N,S (23a) (21a)(21b) (23b)

(23b) (21a)(21b) , , (23a) (

19a) 가 (23) , (21a)

(21b) , (23a)(23b) (21a)(21b) (24a)(24b) .

(30) (11) (11) (23a)(23b) (31) (32) (32b) (33a) (32b) (31) (32a)

33) .

(33) (mag netic permeability) (23a)(23b) Fe - Ni (42wt.% 80wt.%) (33a) 0.5 2mm가 1 5 가가 .

(33) (33a) 0.5 2mm 가 (33a) (33) 1 10mm 가 .

(33) (33a) (33) 100 300 μ m Ni .

(μ m) (11) 1.2 (2), (19a) (3) (4)

(22) 5 가 (11) (21a)(21b) (22) 가 (21a)(21b) (23a) (23b) (22) (23a)(23b) (31)

(31) (33) (33a) (11)

(33a) (33)

(31) (23a) (23) (μ m) (19b) 가 (5) ppm (1)

(μ m) 100 200ppm

(31) (33) (33a)

(magnetic susceptibility) (31) (38) (31) (33a)

(31) (31)

(31) (38) (19a) (18a)

(19b) (18b)

(16a) (16b) (11)

(11) 가 (31)가 (19a) (17b)가 (33a) (17a)

(31) (33a)

Fe - Ni 가 가

가 가

(57)

1.

(1) 가 (2), (3)

(3) (19a) 가 (11)

(12) (10);

(11) (22) (20); (23a)(23b) (21a)(21b) (12) (23a)(23b) 가

(23a)(23b) (31) (11)

(30);

2.

1 ,

(11)(12)

3.

1 ,

(21a)(21b)

3b)

(23a)(2

4.

1 ,

(31)

(23a)(23b)

(32a)

,

(32b)

(32) ,

(32b)

(33a)

(33)

5.

4 ,

(33a)

(magnetic permeability)

Fe - Ni

(42wt.% 80wt.%)

6.

4 ,

(33a)

(33)

가

, 100

300 μ m

Ni

7.

1 ,

(21a)(21b)

가

(23a)

(23b)

8.

1 ,

(31)

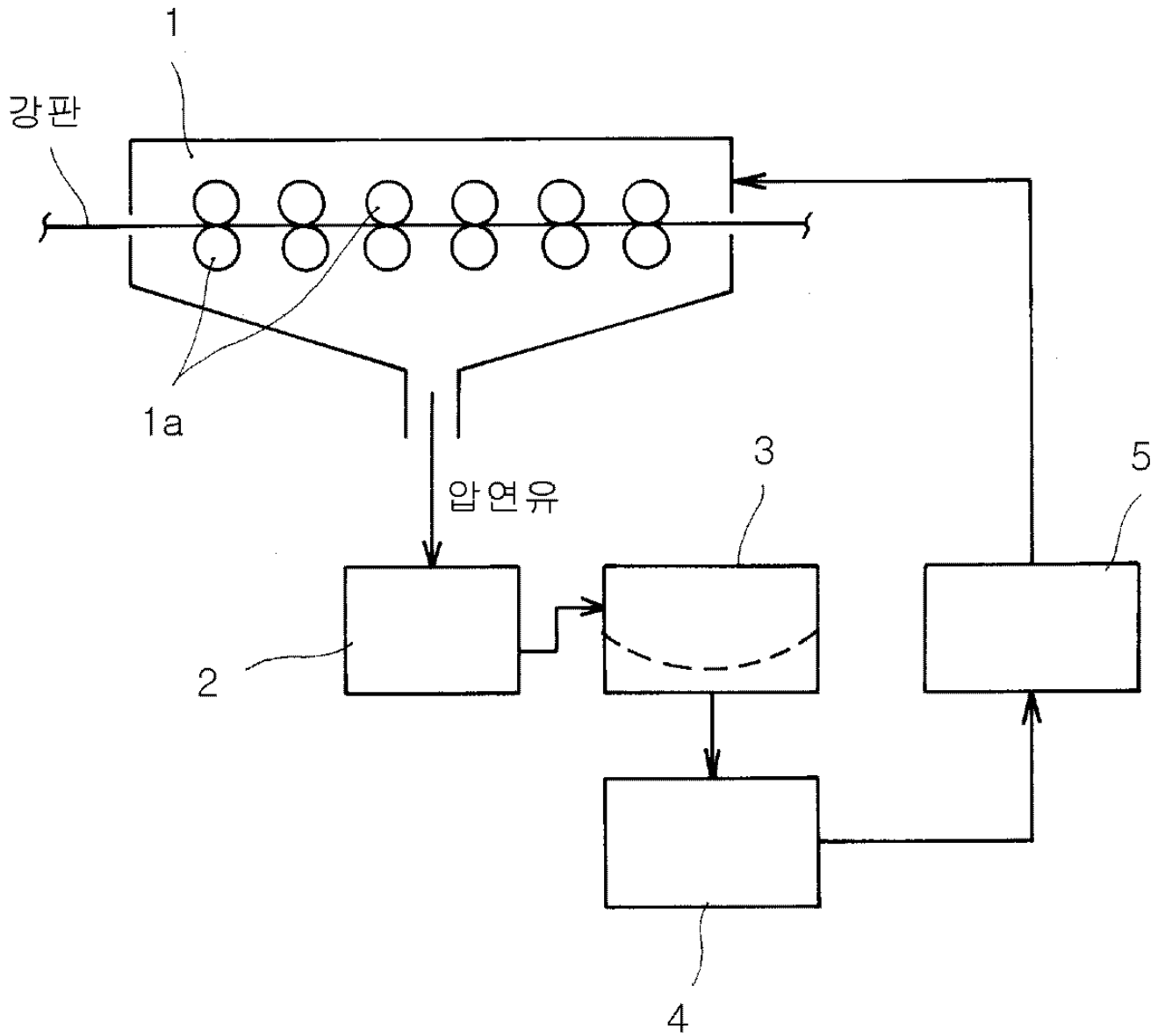
(33a)

(magnetic

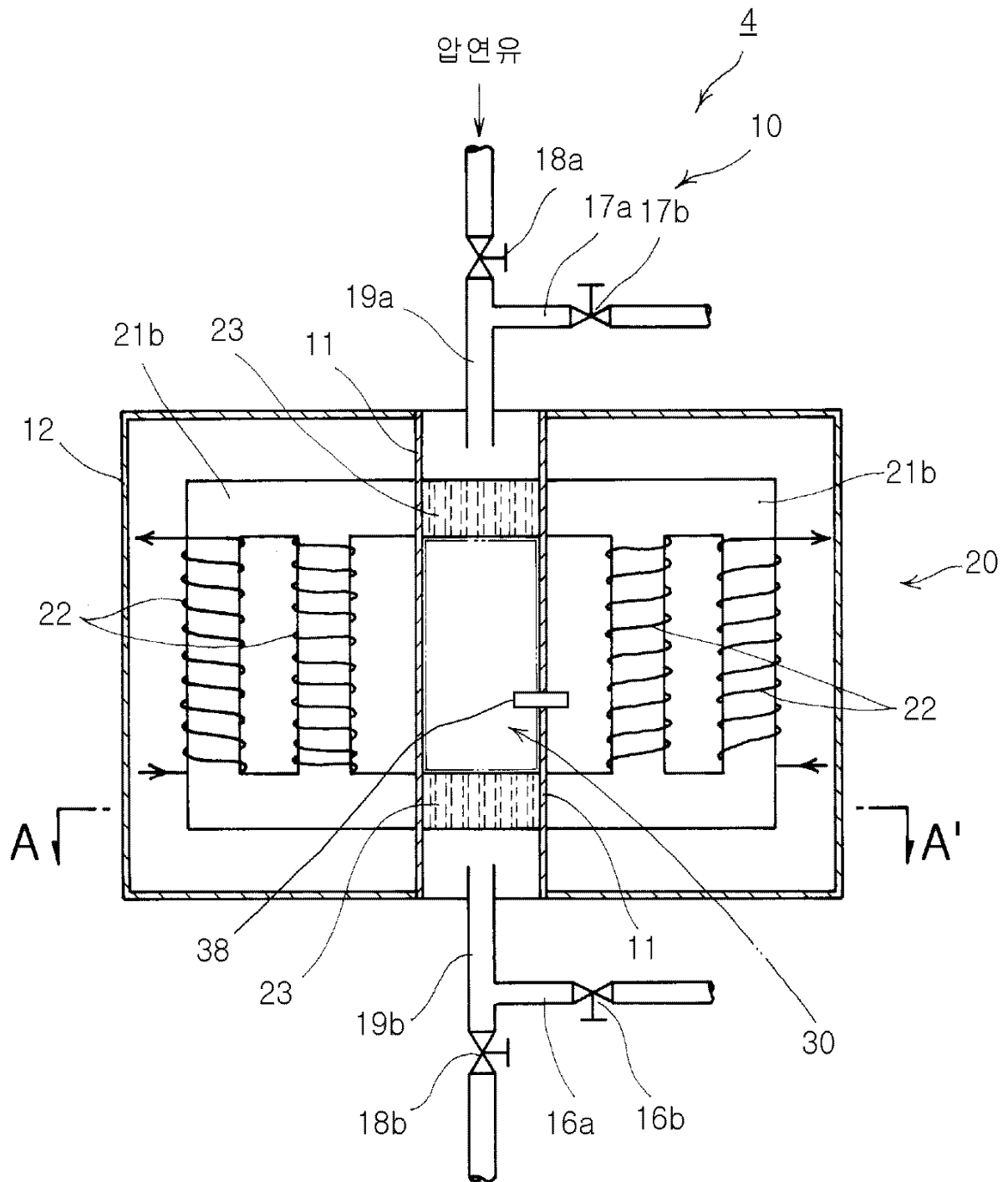
susceptibility)

(38)

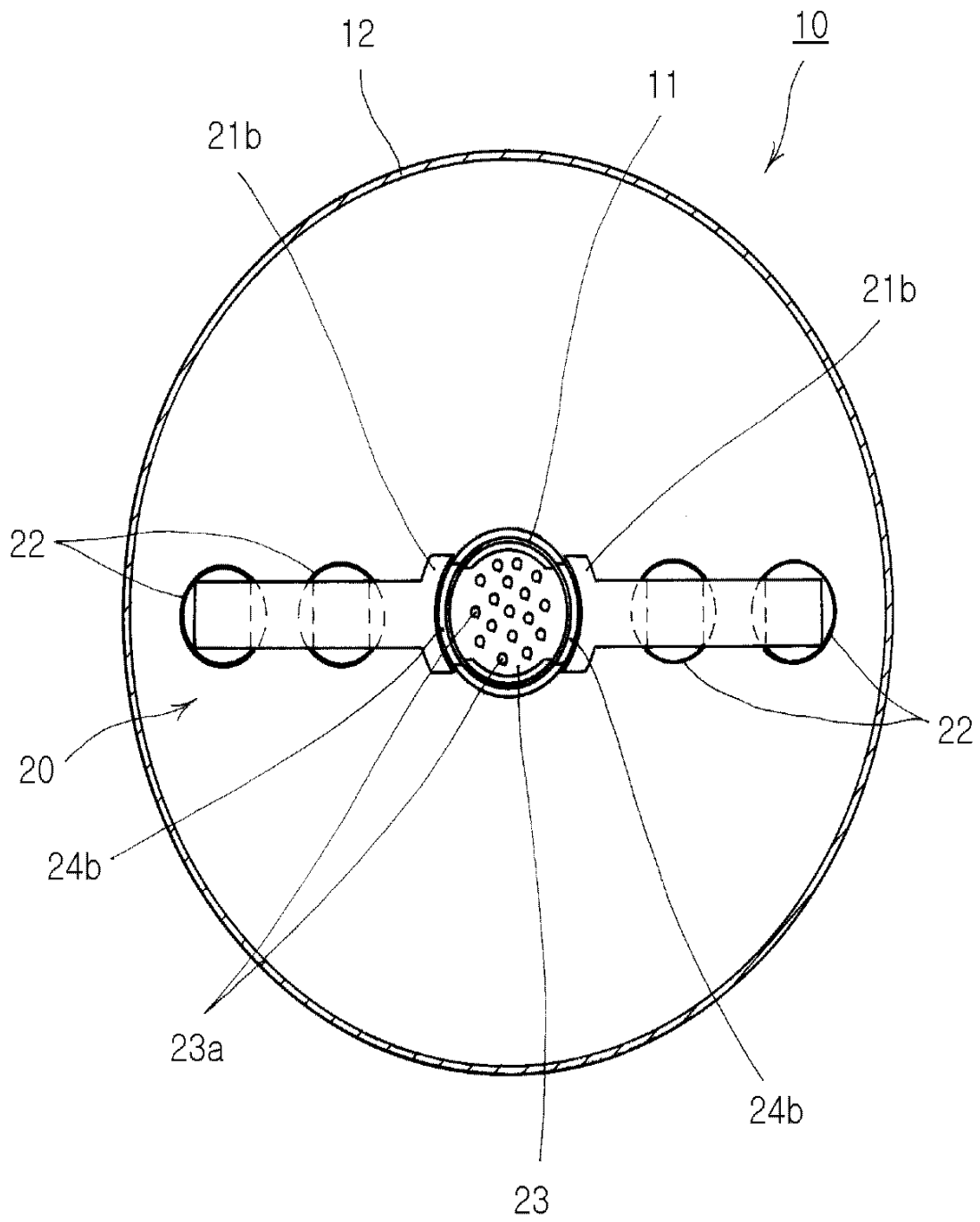
1



2

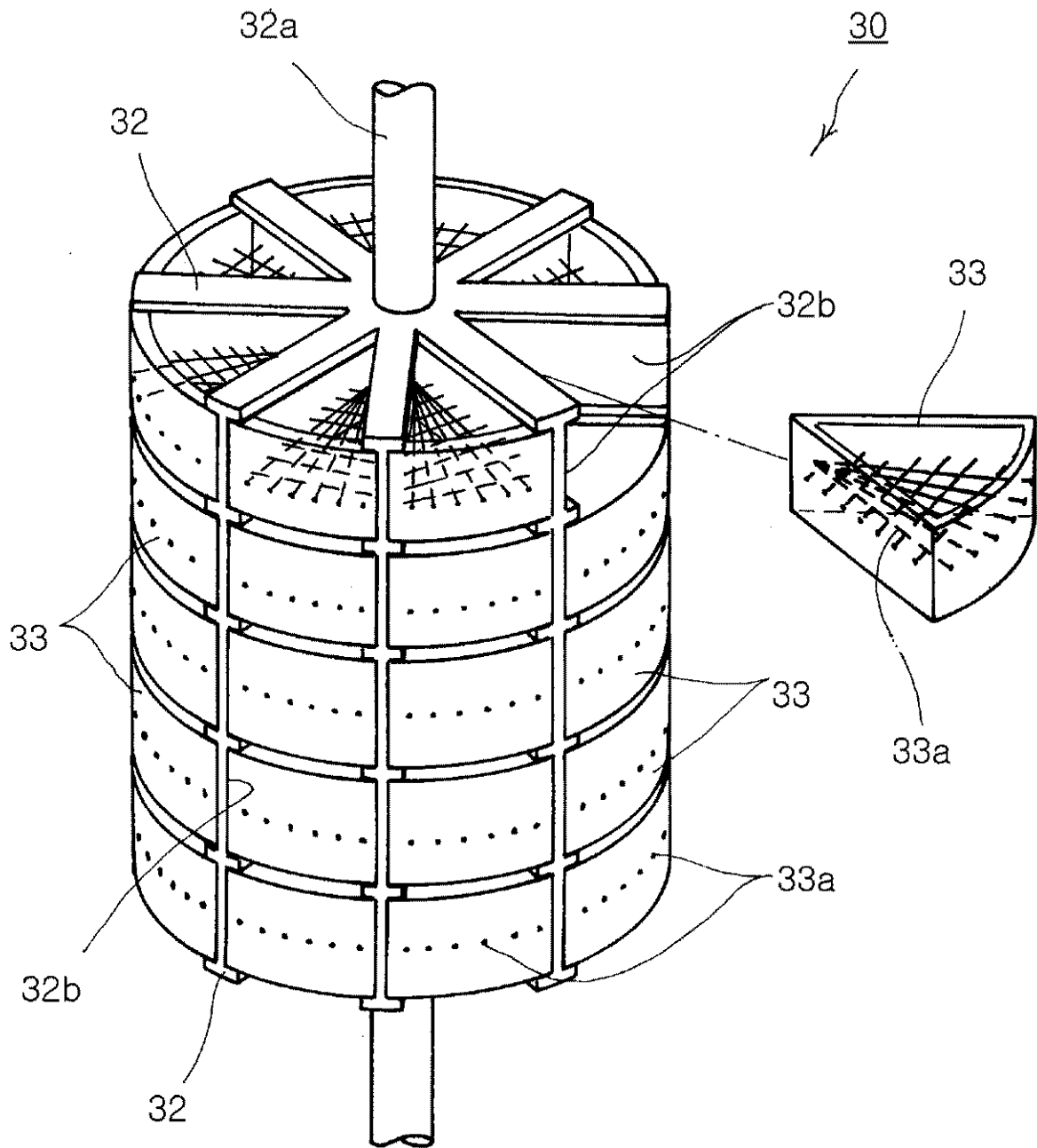


3



A - A'

4



5

