

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
B63H 23/00

(11)
(43)

2003-0051372
2003 06 25

(21)
(22)

10-2002-0080724
2002 12 17

(30)

10/023,464

2001 12 17

(US)

(71)

(: 75116)

25

(72)

227

2

226

31

(74)

:

(54)

(waterborne vessel)

(2)

.

(4)

(1) ,

(10)

(2)

.

(4) ,

2a

, , , , .

1a 1 .

1b 1a .

2a 2 .

2b 2a .
3 1a .
4 2a .
5 .
6 .

1: 2: 3:
4: 6: 8:
10: 16: (foot) 18:
24,52: 26: 30,32:
40: 42: (sleeve)

g) , (mountain
5,403,216 POD 1,010,614), POD
가 1 (pod housing) 가
POD가 POD가 , POD
D , POD , PO
s) , (cruise ship
POD 가 가

[illegible]

(extended portions)

2

가 , 가 .

가 .

(4)가 (2)

2a 2b (1)(POD) (induction motor) .

2) (8) (6) (10) (2) (3) 2a (

8) (4) (2) (10) (3) (10)가 (4) (4) 2a (

, 6 (10)가 (4) (10) 2 (12,14) (4)

.(2b 가) 4 .

(4) , (16) (2) (16) (18) (18) (18) (22) (2) (4) (20) (2) (16) (24)

(18) (22) (18) (22) (10) (16,18) (2) (4) (16) / (4)

, 4 (18/22) (26) (26)

(10) (18) (16) (26) (26)

1.5mm

(28) (22) (4) 1 2 (30,32)가 (34)

(16,18/22) 1 (30) (30) 가 (skirt) (28) (36)

1 2 (30,32) (33,35) , 가

(22) (16)

(2) (4) (30,32)가 (2)

6) (16) (18/22) (4) (4) 6

(2) 가 .

(,) (/ 가 , (4)) (30,32)
 가 (2) (16) (18/22) (16)가 (18/22)
 (2) (4) 가 /
 (30,32) (4)가 (26)
 2 1a, 1b 3 , 1
 (8) 4 (10)가 (4)
 (6)
 (38) (8) (42) (4) (44) (42) (40)
 (38) - () (40) (52)가 (40) (54) (38)
 (52) (38) ()
 3 , (40) 가 (42)
 (44) (44) (55) 1 ,
 (59) (38) (57) (44) (59) (55)
 (55) (57,59) (46) , 1
 (56) (2) (58) (48) (X)
) (2) (4) (44) (42)
 1 (46) (52)가 가 2 (48) (50) (Y) (42)
 (58) (2) (4) 가 가 (42) (48) (55)
 (sandwich)
 3 1 2 가 , (42) 가
 1 가 2
 (woven metallic nature) , SL1 4LR
 Stop-Choc(www.stopchoc.co.uk) 가
 , 50Hz 가 6 50H
 z , 가 50Hz ,
 (4)
 5 (PODs) 8 (dB)
 .4 / 가 (5(1) 5(4))
 5(1) 20MW (; 5(2) PWM
 20MW ; 5(3) PWM (pod) 28MW ;
 5(4) 28MW .4
 5 , (2kHz) , 3
 1 20MW
 ,
 , 가

2

가

(57)

1.

(1) , :

(4) (10) (2) ,

2.

(1) , :

(4) (2) , (10)
(16) , 2 (18,22,28) , 1 2
(30,32) , (30,32)
(2)

3.

2 ,

4.

3 ,

5.

1 4 , 2

6.

1 5 , 20Hz 50Hz

7.

1 6 ,

8.

1 7 ,

9.

1 8 , PWM(pulse width modulated) 가

- 1

10.

9

,

.
- 9

11.

,

1

2

,

.
- 11

12.

,

0.5mm

2mm

.
- 12

13.

,

1.0mm

1.5mm

.
- 1

14.

13

,

.
- 1

15.

14

,

.
- 1

16.

15

,

.
- 14

17.

15

,

.
- 1

18.

14

,

.
- 18

19.

,

.
- 1

20.

17

,

.
- 1

21.

20

,

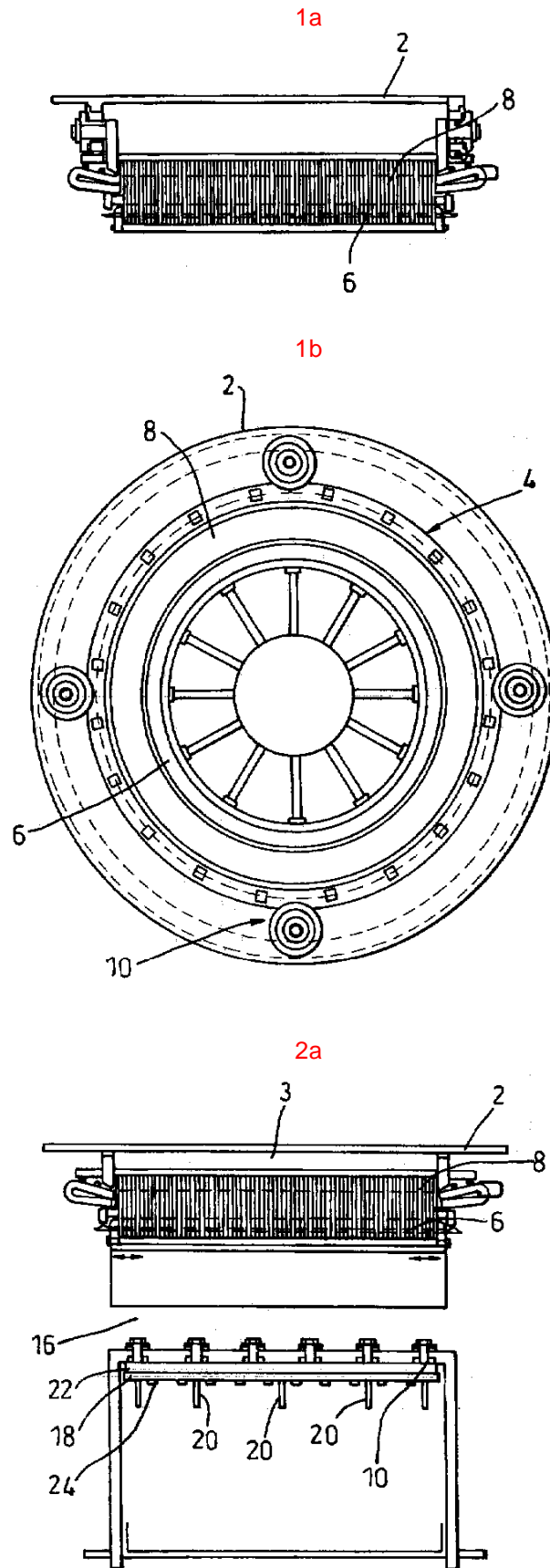
가

가

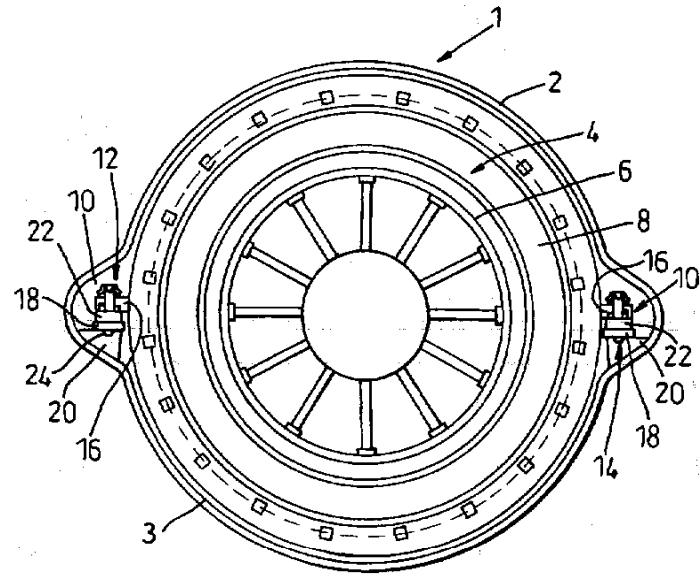
(stiffness)

가

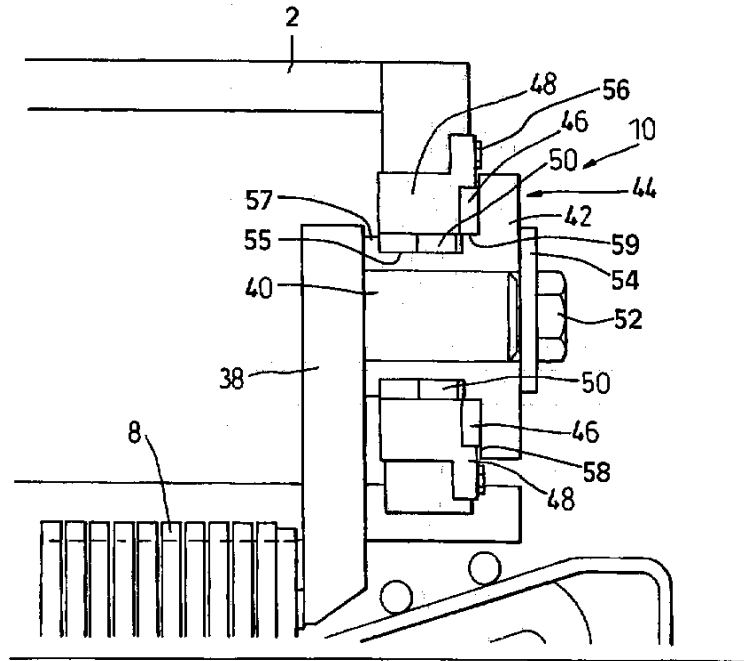
.



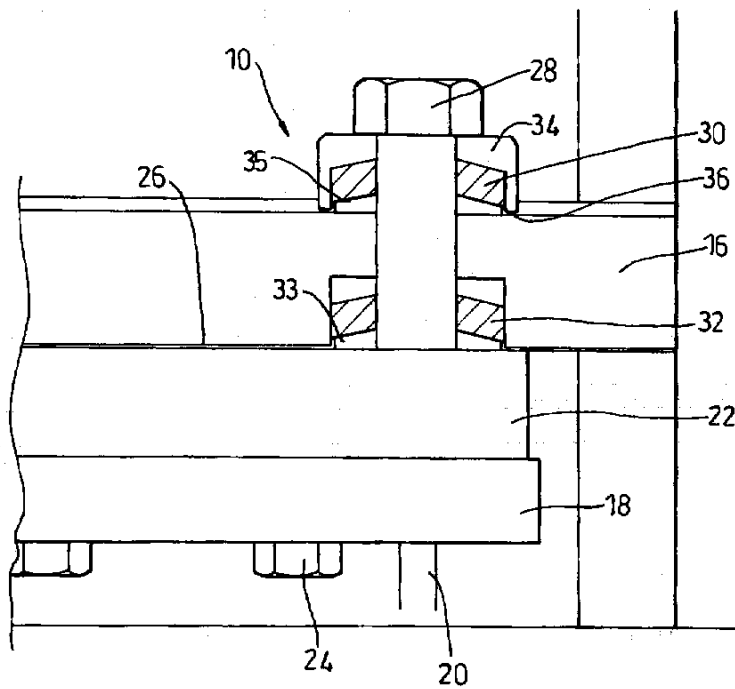
2b



3

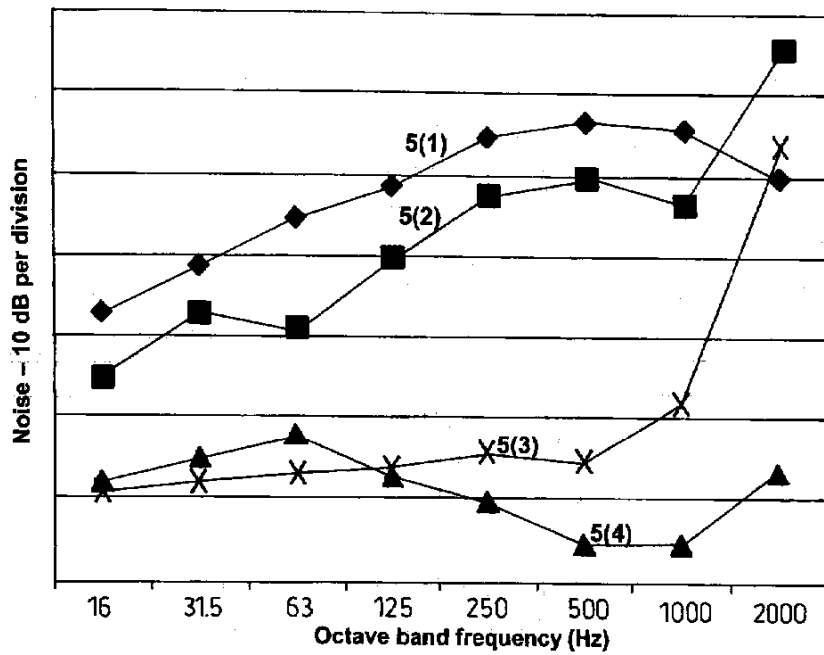


4



5

노이즈 수준 대비



6

