



1 1  
 2 2  
 3a 1 2  
 , 3b 1 2  
 4 1  
 < >  
 10 : 12 : 1  
 14 : 2 16 : 3  
 18 : 20, 26, 38 :  
 22 : 24 :  
 28 : 30 :  
 32 : 34 :  
 36 : 40 :  
 42 : 44 :  
 46 : 48 : 1  
 50 : 2 52 :

가 가

가 가

(外耳道),  
 (内耳)  
 8,000Hz 20Hz ~ 20,000Hz 20Hz ~ 20,000Hz 125Hz ~ 500Hz ~ 2,000Hz

221534 가 2001  
 221534 가 (100)  
 가 (130) (100) 221534 가 (100)  
 (140) 가 (110) (120) (100)  
 (120) 가 (100)가 (150) (110)  
 가 가  
 가 가

가 2001 9 20  
31089

310891

가

가

가

가

가

2002 8 16  
.(

: 10-2002-0048318,

: 20-2002-0024417)

가

가

(Mastoid);

(Speaker plate);

(Ring magnet);

가  
(Yoke);

가

1

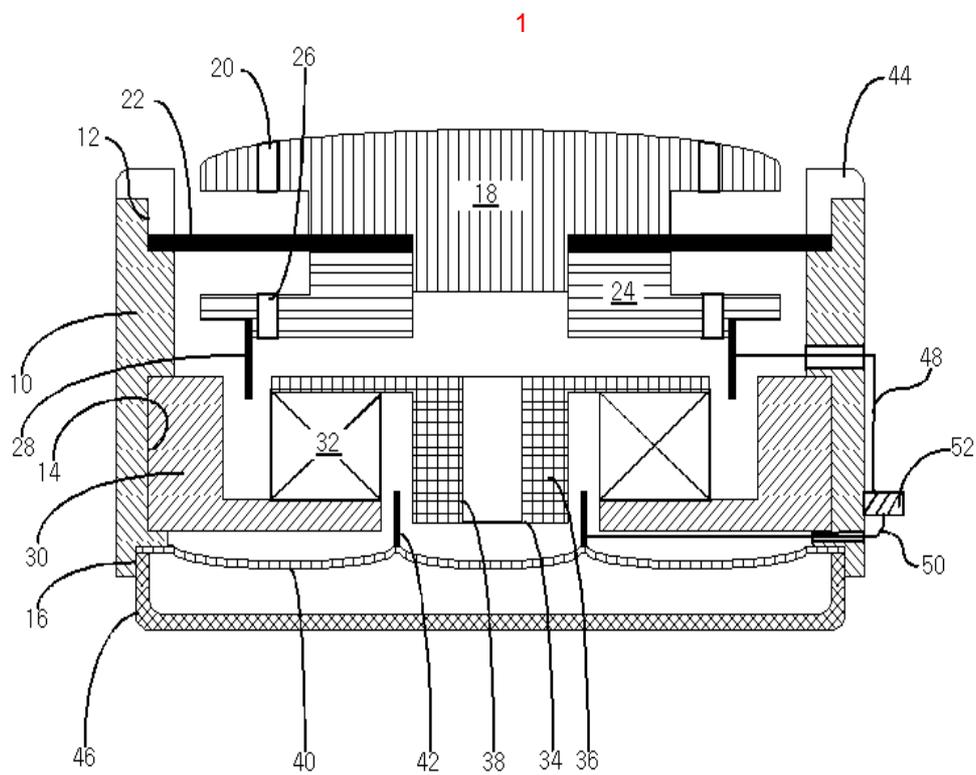
2



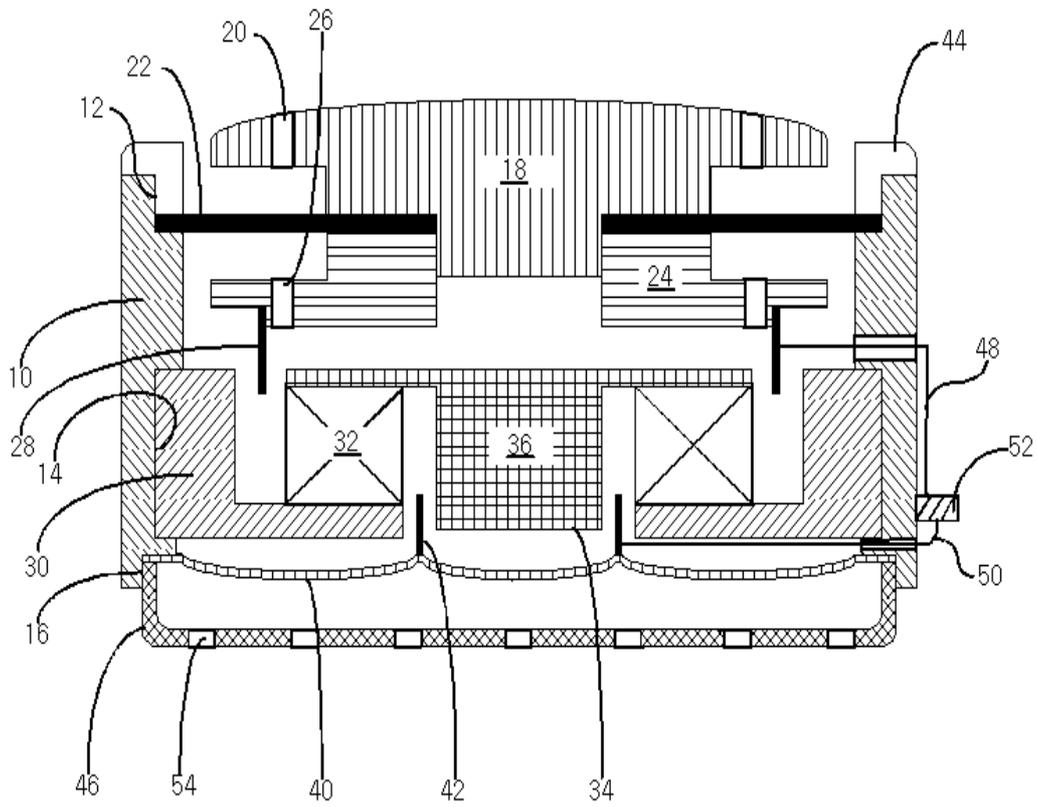
, 1 (60) 2 (50) (+) (70) (d)  
 , 2 (62) 2 (50) (-) 3 (64) 1 (48) (-)  
 , 4 (66) 1 (70) (c) (b) (48) (+) (70) (a)  
 , (70) (a) (b) (60, 62, 64, 66) 가 (c) (d)  
 (42) (28) 가 (52) (a) (b) (c) (d) (28) (28)  
 , (70)가 (52) (a) (b) (c) (d) 3 (64)  
 2) 4 (66) 1 (48) (28) 1 (60) 2 (6)  
 , 2 (50) (42) (28) 가  
 , 1 (48) 2 (50) (28) (42)  
 (10) (32) (30) (34)  
 , (F) (28) (28)  
 (10) 1 (12) (22) (24), (22)  
 (18)가  
 , (F) (42) (42)  
 (10) 3 (16) (40) (40)  
 (46) (34) (36) (38)  
 (24) (26) (18) (20)  
 , 3b (52)  
 3b (52) 2 (50) (+) 1 (60), 2  
 (50) (-) (48) (+) 4 (62), 1 (48) (-) 3 (64), 1  
 , 1 (60) 2 (50) (+) (70) (d)  
 , 2 (62) 2 (50) (-) 3 (64) 1 (48) (-)  
 , 4 (66) 1 (70) (c) (b) (48) (+) (70) (a)  
 , (d) (a) (E) (F) (a) (F) 가 가  
 , (b) (70) (E) (F) 가 가  
 (60, 62, 64, 66) (28) (42) (28) (42) 가  
 , 1 (48) 2 (50) (28) (30) (34)  
 (10) (32) (F) (28) (22) (24), (22)  
 , (F) (42) (42)  
 (10) 1 (12) (22) (24), (22)  
 (18)가  
 , (F) (42) (42)  
 (10) 3 (16) (40) (40)  
 (46) (34) (36) (38)  
 (24) (26) (18) (20)  
 2 2 1 1  
 (36) 2 (38) 2 (46) 1 (34)  
 (54)  
 , (28) (32) (10) 3 (16) (F)  
 (40) (28) (40) (46)  
 (54) 3 (18) 가



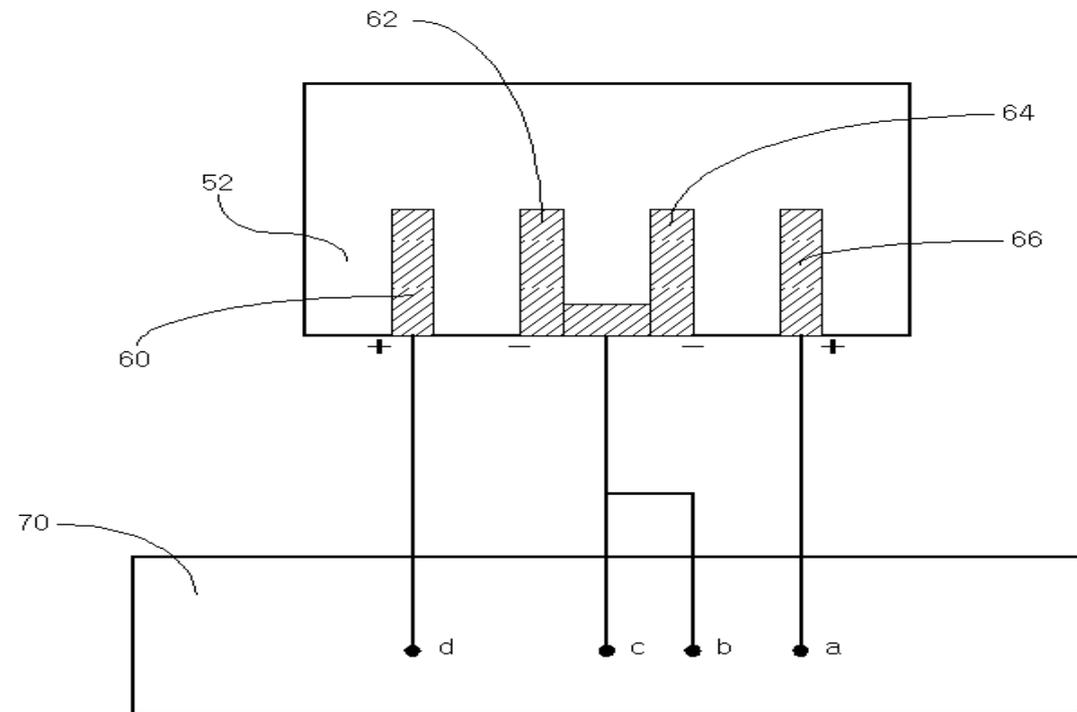
;  
 , 2  
 (Speaker plate);  
 (Neodymium : Nd) 가 ; (Ring magnet);  
 가 ,  
 (Yoke); ;  
 ;  
 가 ;  
 1 2 , 1,2  
 ;



2



3a





4

