

7

1

2a,2b

3,4

5,6

7

8

9

10

()

30 ; 31 ;

33 ; 34 ;

40 ; 41 ;

42 ; 43 ;

가

1

(10)	(10)	(10)	가	(20)	(12)
	(12)	(11)	(20)가		(1
			(Slot)(13)		

3) (13) (Teeth)(14)가 (13) (13a) (13b) (13a) (14)
 (15) (12)

(20) (10) (12) (21)
 (Pole) (Flux - Barrier)(22)가

(10) (15) 가 가 2a, 2b
 (20) (22) D Q (Inductance)
 (Torque)가 (20)가

(10) (22) (11) (22)가 (22)
 (22) (21) (Rib)(23)
 (10) (Slot Pitch)

(10) (3b) (22) (22)
 (22) (3b) 가 1 : 1 (Torque Ripple) 3
 (22) (13) 가 (3b) 4 (20)가
 (22) (14)

(11) (22) 5 (10)가 (10)가 (1)
 0) (14) 가 (13) (10) 가
 (22) 가 가

(Pole) 6 (20) (22)
 (23) (14) (13b) D, Q D Q (Align)
 Ld, Lq

가

(40) (30) 가 가
 (42) (43) $N_s / 2P$ $m = 1, 2, 3$
 (43) () = $(2m - 1) - /2$, (m = 7.5°, 37.5°, 67.5°가

(30) (35) 가 가 (40)
 (42) D Q (Inductance) (Torque)가 (42)
 (40)가 (43) 10 (30) (34) (3)
 (42) (33) 가

4 24 (40) (42)
 (40) 가

가 가 가
 가 가 가

(57)

1.

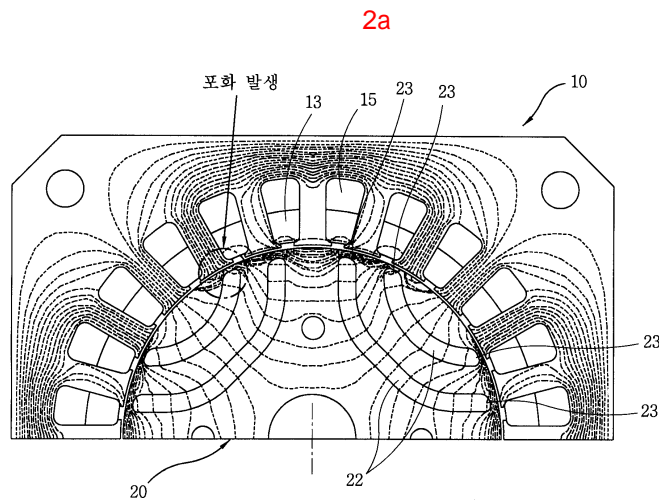
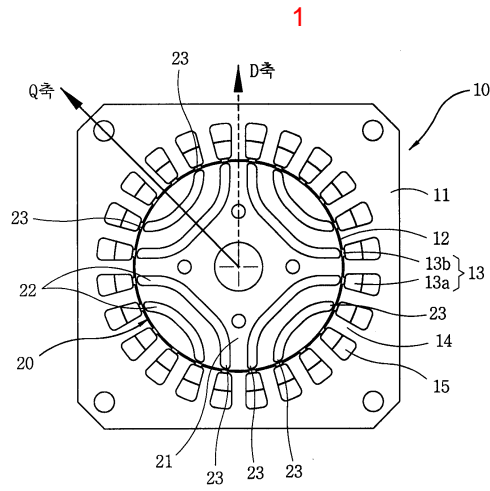
가 가
 가 가

2.

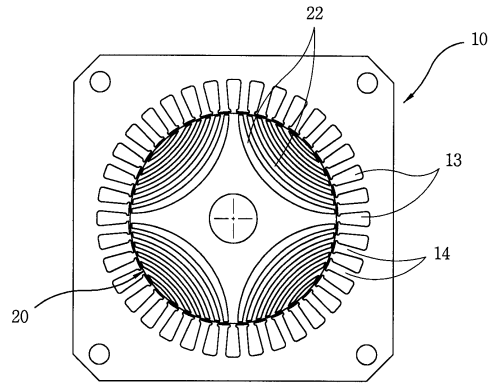
1 $N_b = N_s / 2P$, P
 N_s () = $(2m - 1)$
 $- /2$, (m = $N_s / 2P$)

3.

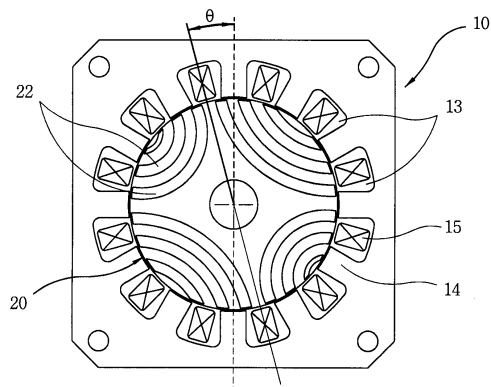
$$N_b = (N_s / 2P) - 1 \quad , \quad P = (N_s / 2) - (m - 1) / 2, (m = N_s / 2P)$$



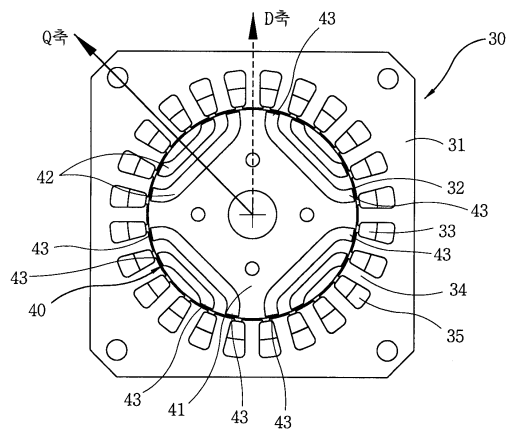
5



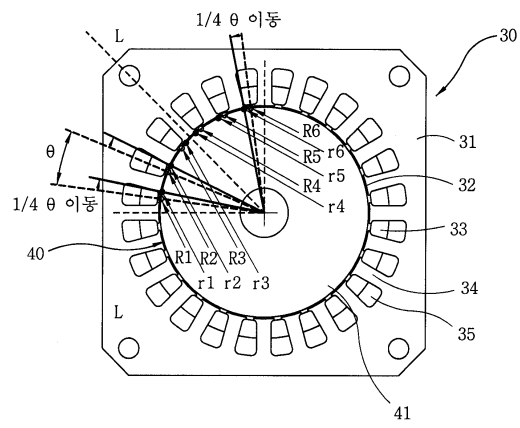
6



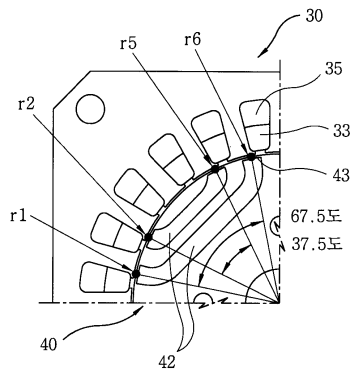
7



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