

4 2 2b

5

5b

4) (10) 1 1, 2, 3 3
 1, 2, 3 (14) (16, 18, 20) 1, 2, 3 (1
 (16, 18, 20) (12) (12)

(14) 3 (22, 24, 26, 28, 40)
 4 3 3 (, (,
) 4 (22, 24, 26, 28, 30)
 (32, 34, 36, 38, 40) (12) (CONT1, CONT2, CONT3,
 CONT4, CONT5) (22, 24, 26, 28, 30) (32, 34, 36, 38,
 40) (42, 44, 46, 48, 50) 5 5
 (neutral line) N (42, 44, 46, 48, 50)
 (12)

(10) (22, 24, 26, 28, 30) (10) ,
 , 가 1 5 ,

(12) 3 (16, 18, 20)
 (12) (42, 44, 46, 48, 50) ,

(12) (12) 가 가

(12) 3 가
 (, 90%) (12) 가 3 가
 (22, 24, 26, 28, 30) (12) , (12)
 가
 (12) (CONT1, CONT2, CONT3, CONT4, CONT5) (22,

24, 26, 28, 30)

(12)가 , 가 (12) 가 (12) (32, 34, 36, 38, 40) 가 (10) 가 (12) 가 가

(22, 24, 26, 28, 30) (, , 가 (12) 3 가 3

(12) 1 3 N (12) 3 (12)

3 1b 2 가 1 (1000) 1b n n 1 1b .1 2 가 (22-30)가 가 1 1b 3

2 , 1, 2, 3 3 (52) (52) .3 (52) 3 AC (52) (52) (52) AC DC (52) (54) (54) (54) (54) AC DC (10)가

(54) AC (56) AC (56) (54) DC AC (10) (, 120V, 60Hz)

AC (56) (10)가 (32, 34, 38, 40) .
(32, 34, 36, 38, 40) . 2 5
, 가 (10)

(10) (52) 가 가
3 , 10% 가 가 30%
가 , (52) 가가 30% 가 가 3 가

1 2 , 가 (52),
(54) AC (56) 가 .

2b 2 2 (52), (54) , 3 (524)
. 2b (58)가 .

2 2b , (52) ,
3 (52)가
1 (12)가 , 3 3
, 2 2b 1
5,477,091 2 2b

AC (56) 'ac '가 ' , ' .
(stationary converter) ' dc/dc dc/ac
' dc/ac 2c (52
4) DC (213) ac (211) dc/ac (200) , ac (212) .
ac (208, 209) (210) ,
(201, 202) (free - running) . DC 1 (201, 20
2) 가 . (205, 206) ac (203, 204)
(201, 202) 가 (207c) (201)
, (207d) (202) .

Trans. AIEE, 1955 7 , . AC DC .

2d , (2000) 207 ,
(2070) 가 dc/ac , 2
(regulation) ,
dc , dc
1957 9 , Trans. IRE, Vol. CT - 4, No.3 , .

2 2c 2d 2b 3 . 3
가

2, 2b 3c 2d 2 3 'n- ' 가
(58) (208, 209, 210)
(212)

2, 2b, 2c 가 , 가 ac

(58) (207) 1 (207a) 가 가
가

90% 2d dc/ac 207 0.6 (207) (current - fed) ' 가 가 .
(207) dc 가 1

2e 3 (524), 가 가 (2071)
' dc/ac (200) (10) 1.0
가 가 가

가 , 가 ,
가

2f 가 2e (2071) UC1854
(5242) (5242)

, NH 03054, , 7, :(603) 424 - 2410, FAX:(603) 424 - 3460, (regulated)
' 93 - '94, #IC850 (5242) D
DC (5244) DC/AC (10) , ac (holdup)(5243) , DC/AC (10)가 ac (211) , 가
(sag) ' , UC1854
(5242)

0.99 n - n -
' (cusp distortion) ' 가 가
가 , 2f 3 , (hole) , 가
가 2

가

1854

IC

(1) UC1845/2854/3854 (1854)

(2) U - 134, UC3854

(3) DN - 39D UC 3854

(4) DN - 41,

(5) U - 140,

, n -

2

n - DC ;

DC dc/ac ac ;

DC AC ;

ac ac , ac ac ,

, ac DC dc/ac DC ,

DC ac n - n - n - ,

ac n - n ac ,

, n - n ac .

3 1b 2f (3001)

가 . 2f 1b

(14) 1b , 1001,..1002 n

. 1b m

, 1b (12) (3012) , dc/ac (10)

n - (3012) 가 (3001)

(3004) (12) (3001) RJ11 (3002)

(3003) (3001)

(18 42m)
(120)가

(3012)

(3012)
(3001) . , . , (3012)
1 n -

(3001)
(3012), (3001) (3012)
(3012)

4 n - , n=3 3 2 (52, 54) (5400)
4 , (401 - 403) , (PFC) DC (405 - 407) UC1854
PFC . n , (409) (410) . n
UC1907 , UC1842
PFC , 10% PFC (408)

2 2b , n 4 4 가 n

5 (5001) 3 (3012) 가
(3011) (5001) (3004) 가 , (3003) (3002) (3012)
가

3 , (18, 24) (3012)
(3012)

5b (5181) , (3012) (5181) (518), (3012)
(518) 가 , 3 (5001) 1 n
가 , 3

가

가 , 3 가 5 ,

. , n=3 n- , , 3 ,

(57)

7.

3 3
 ,
 3 1, 2 3 , 2 3 , 2 3
 , , 2 3
 ,
 ,

1, 2 3 ,

(a) , 2 3 ,

(b) , 2 3 ,

(b) , , 2 3 가 가 , (a)
 , 가 3

9.

1, 2 3 ,

- (a)
- (b)
- (b) 가 가 (a)
- 가

14.

3 3

3 1, 2 3 , 2 3 , 2 3

, 2 3 1, 2 3 , , 2 3

, ,

, ,

, 1, 2 3 , , 2 3 가

3 .

17.

7 , 가 3 .

19.

9 , 가 .

22.

3 3

, ,

, 2 3 , ,

가
 , 1, 2 3 , , 2 3

가

(a)

(b)

가

가

3

23.

14

가

(a)

(b)

가

가

3

24.

7

가

(a)

(b)

가

가 3 .

25.

,
,
,
,
,
,

, 1, 2 3 , 2 3 가
,
,
가 ,

(a)

- - ,

(b)

가 ,
가 .

30.

9 , 가 , ,

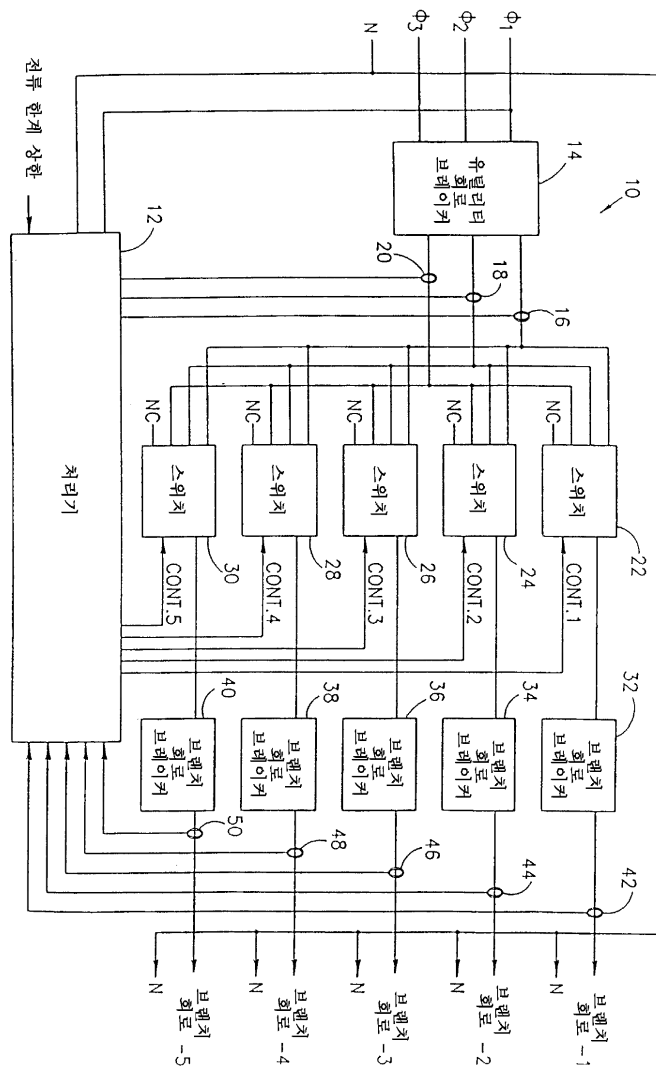
(a)

- - ,

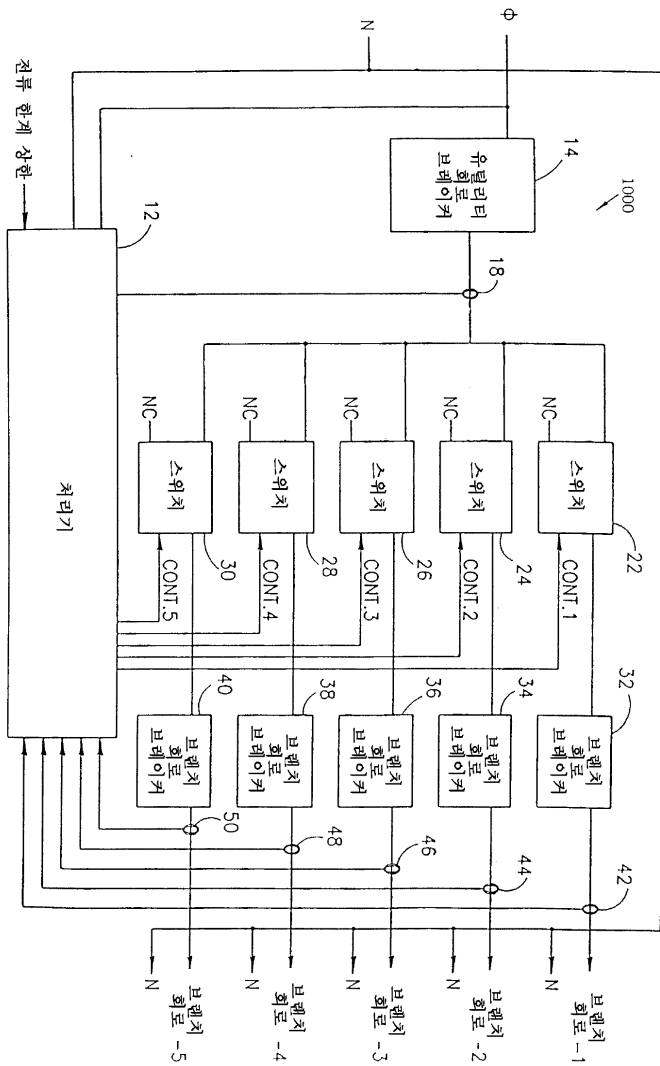
(b)

가 ,
가 .

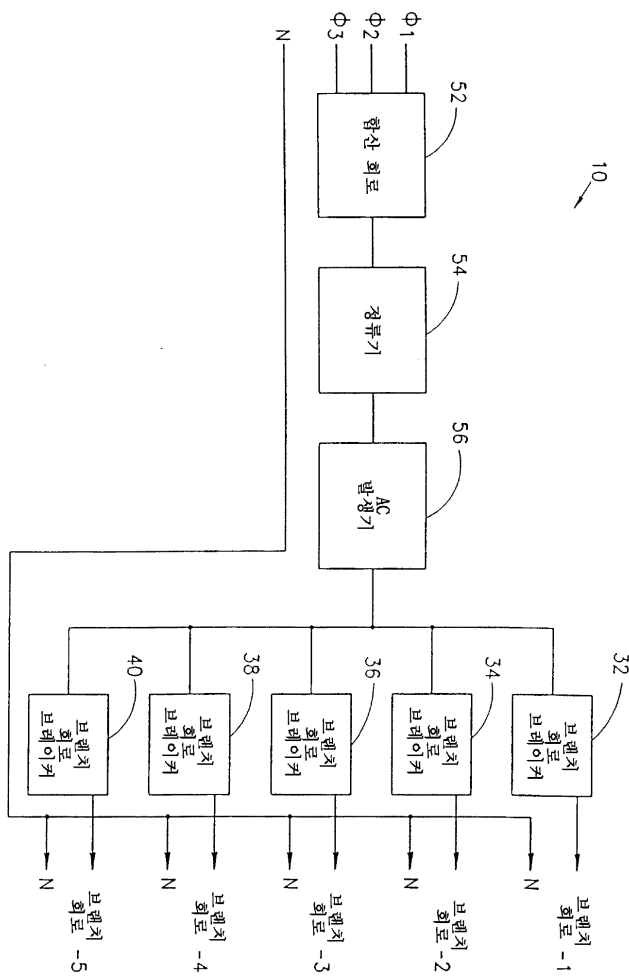
1a



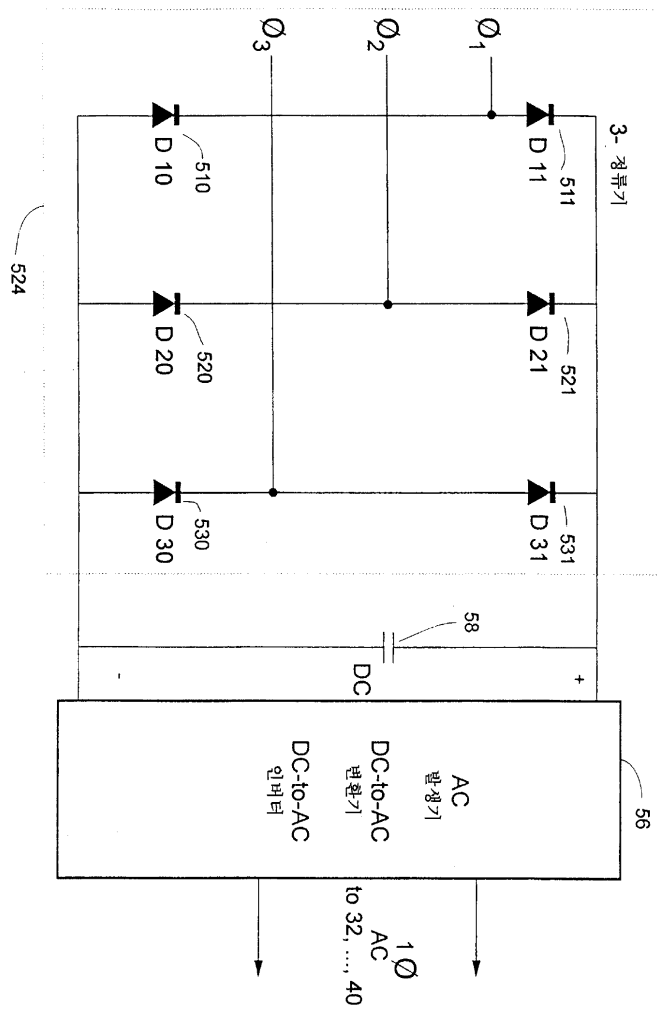
1b



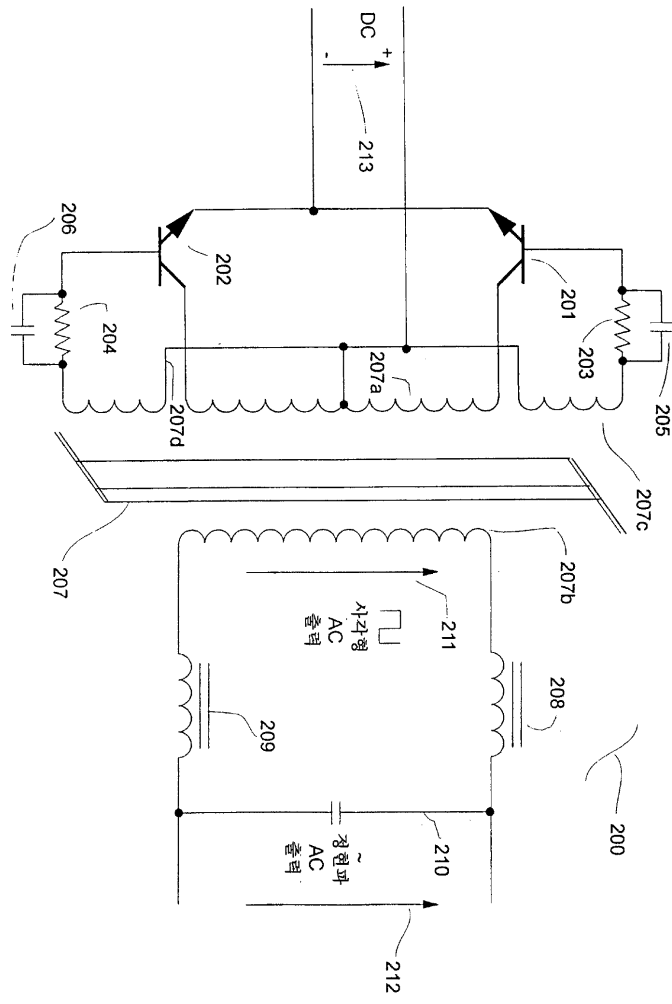
2a



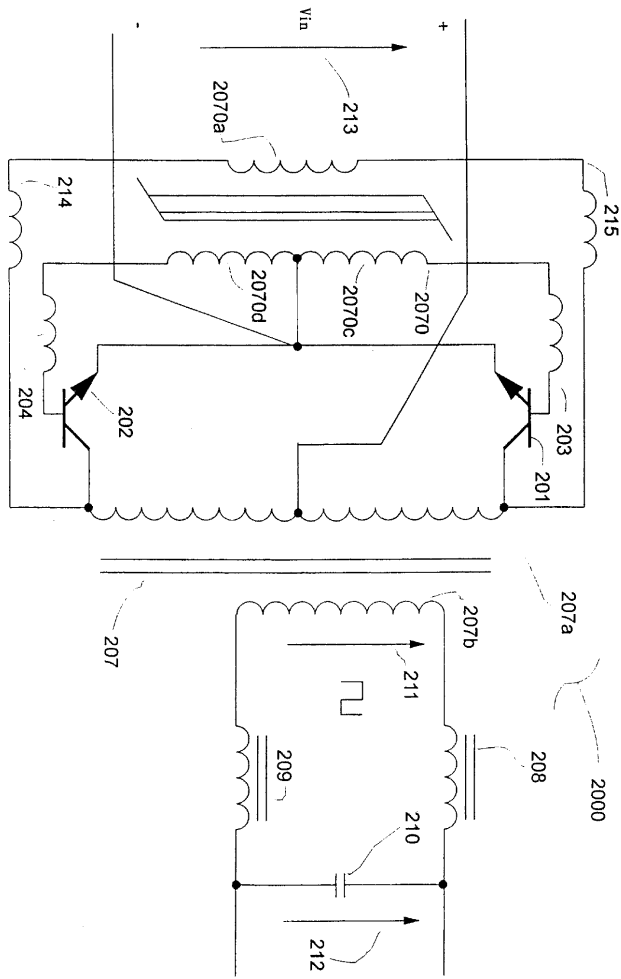
2b



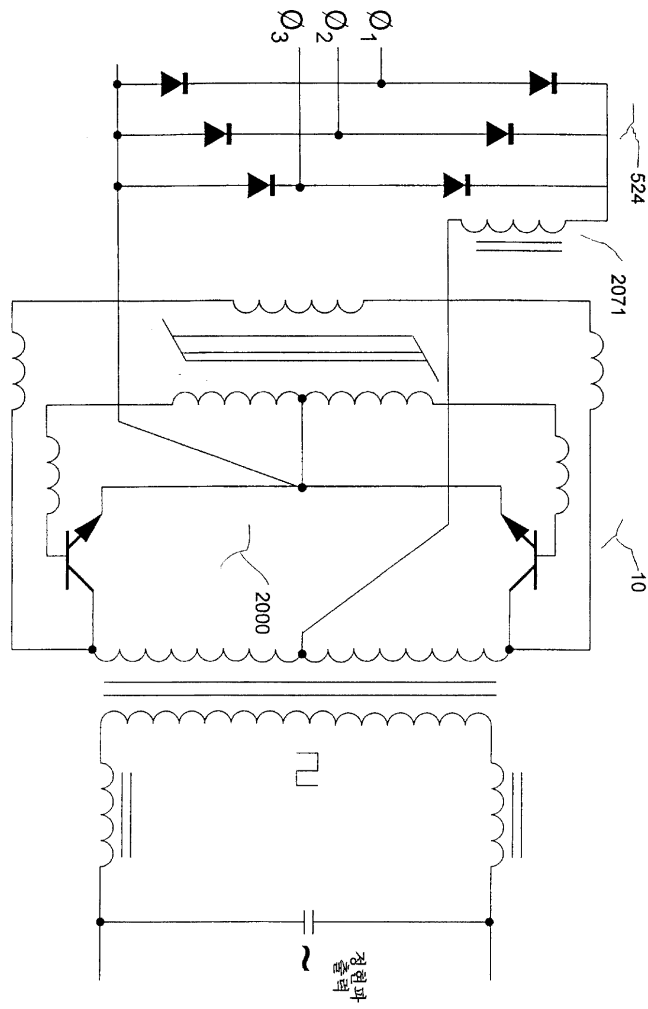
2c



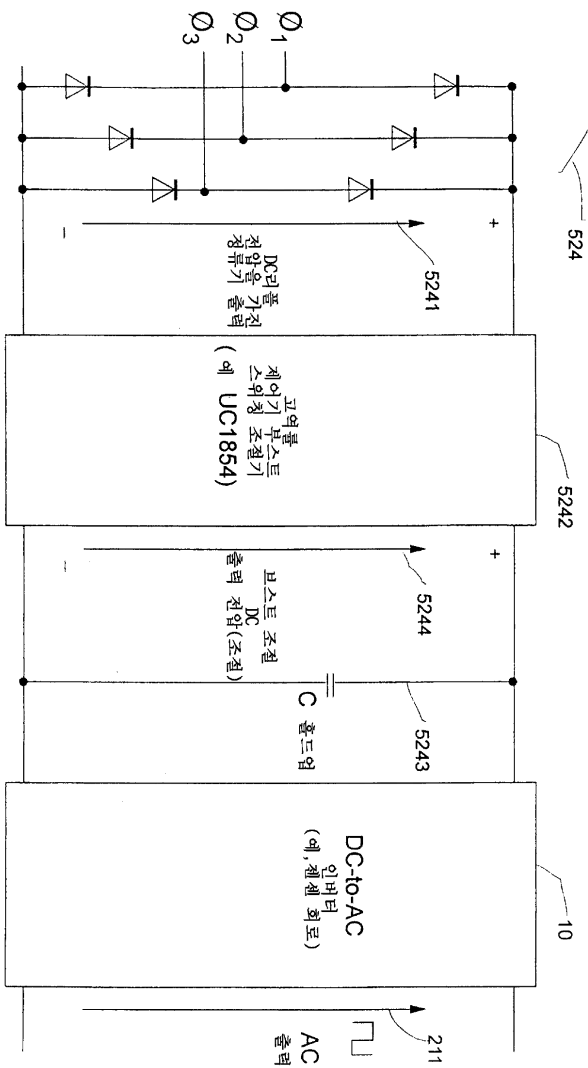
2d



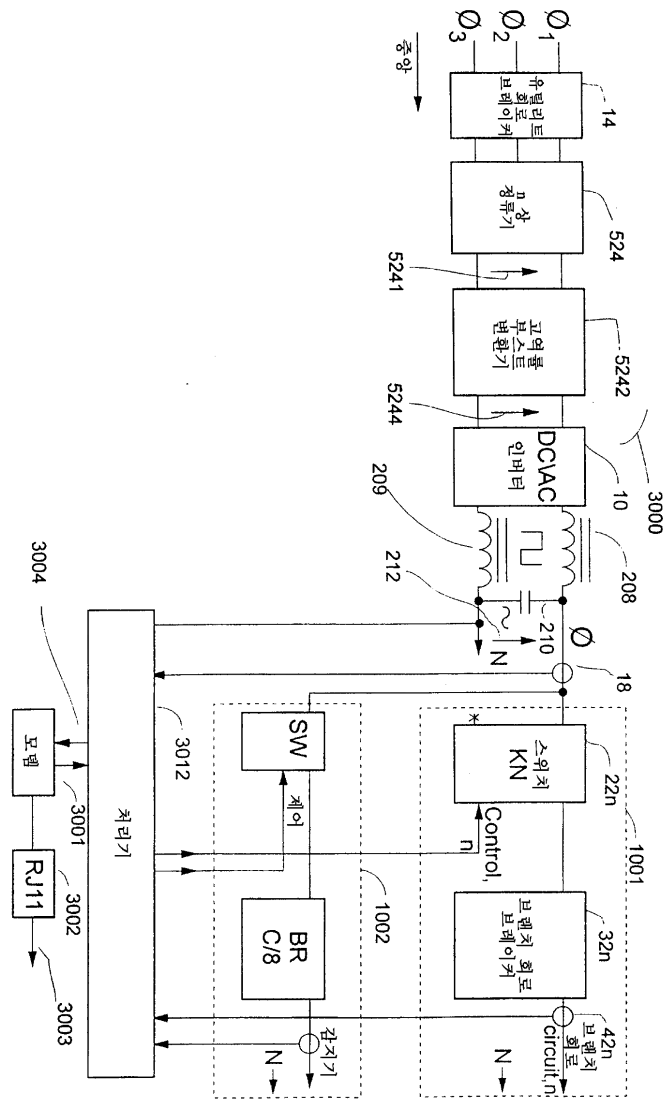
2e



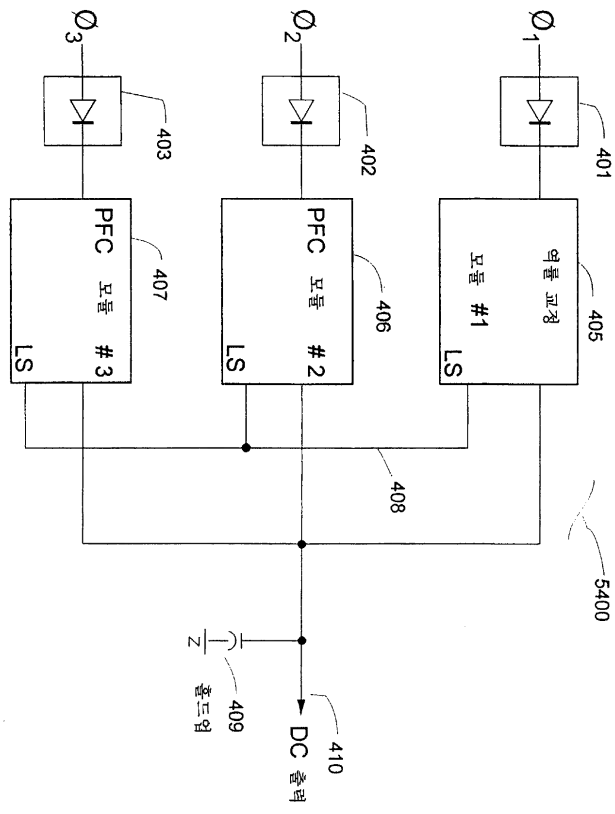
2f



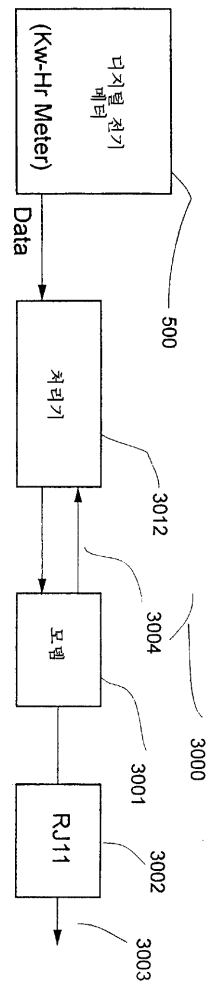
3



4



5a



5b

