

(19) (KR)
(12) (B1)

(21)	10-1997-0703674	(65)	10-1998-0700724
(22)	1997 06 02	(43)	1998 03 30
	1997 06 02		
(86)	PCT/IB1996/000972	(87)	WO 1997/13314
(86)	1996 09 20	(87)	1997 04 10

(81) : , , , , 가 , ,

(30) 95870111.2 1995 10 02 EP(EP)

(73) 1

(72) , 5656, . 6

(74)

(54)

1 (12) 2 (14) 1(2) 2(4) ; 1 (2)
 (8) (4) (24) . 1 (8) 1 (6) ; 2 (6) (14) 2
 . 1 (8) , 가 (36) (10)

(switched-mode power supply) , , (pri
 mary supply voltage) 1 2 ; 1 1 , (a first win
 ding end) 2 (a second winding end) 1 (primary winding) ,

1
2
3
4

2 (60) (68)
 (94) (94) (I_{ref})
 (36) (U_c) (WS)
 (96) (U_d)
 NMOS (92) 가
 (94) (I_{ref}) (38) (mirrored current; I_m)
 (24)
 (96) (U_c) (22)
 (94) (U_d)
 (6) (6)
 (6) (98) 가
 (104) (U_c) (106) (108) (98), (100) (6) (96)
 (U_d) (U_i) (flip-flop; 104) (recurrent pulse), 1 (I_p)
 가 (6)
 7 6 6 (98) (96)
 (U_c) 3 2 (34) (110) (118) (I_{sw})
 (112) (104) (102) (mirrored) (I_{sw})
 (I_m) (I_s*R_p) (94) (I_{ref}) 1 (I_p)
 (110) (I_{cmp}) (I_{ref}) (I_m)
 (I_{cmp}) 2 (U_c) 1 (I_{cmp}) (U_c) 1
 2, 2 가 0 1 0 (t_f) 0 (114) (96) (t_f) 가 (1_{corr})
 , (t_f) (114) (96) (T) (charge surplus) 가
 (114) (t_c) (114) (I_{corr}) EP-A-0 574 982
 ,
 (U_d)
 8 (120)
 (106) (6) (V_{ref}) (120) (98) (120) (104)
 (122) (98) (124) (I_{ref}) (122) (98)
 (102) 1 (inhibit input; 126) (126) (120)
 (WS) 가 (120) (120) (WS)
 ,
 (120) (120) (t_f / t_c) 1
 (104) (126) 1
 ,
 MOS 1
 ,
 MOS 2
 1 (6) (U_d) (U_c) (pulse-width modulation; PWM)
 (U_d)

(57)

1.

nd; 4) ; 1 (2) 1 , (12) 2 1 (first; 2) 1 2 (sec
 1 (8) 1 (10) ; (14) 1 (6) (8)
 2 (4) 1 1 (6) 1 (8) 1 (32, 34, 36) ,
 (24) , (WS) (6) 1 (8) 1 , 1 (26, 28, 30, 3
 2, 56, 72) , (6) 1 (RT) 1 (ST) , (WS)
 (34, 14, 60, 78), (36, 80) , .
 2, 56, 72) , (6) 1 (RT) 1 (ST) , (WS)
 (34, 14, 60, 78), (36, 80) , .

2.

1 , 1 , 1 (8) , , (6) (26, 28);
 1 (26, 28) , .

3.

2 , 1 , (30) ; 1 1 (30) (2) (28, 26) , 1 (26, 28)
 1 , , 1 (I_{sn}) (82) , , , , (88) , .

4.

1 , 1 , 1 (8) , . (30, 32) , .

5.

4 , , 1 1 (2) 1 1 (12) 1 (30) 1 (30) ;
 1 (30) ; 1 1 (12) 2 , 1 1 (88) , .

6.

3 5 , , 1 (2) 1 1 , 1 (90) , 1 (82) 1 (90)
 2 , , 2 2 (88) (88) 2 1 , 1 (82) , .

7.

6 , , 1 (ST) (90) 1 1 (82) (82) 2 , (6)
 2 (54) , 1 (56) , , , , , , , .

8.

1 , 2 , 1 (8) (6) (50) ; 2 (52) (14) (50) 1 (50) 2 (52)
 (52) ; 2 (52) (I_m) (86) 2 , 2 (87) , .

9.

8 , 2 , 3 (86) 2 (74) (58) 2 , (60) (R)
 T) , , , , , , , , .

10.

9 , , 1 (2) 1 , 2 , 4 , 2 (89) 2
 2 (60) (75) (86) (87) (87)

11.

9 ; 2 , (60) , (96) (94)
 (96) ; 가 (38) (WS) (92)

12.

11 , , , (96) (U_c) 1 2 (I_c) 1 (I_{sw}) 1 (I_{sw})
 (98, 118) ; (110, 112) ; (104, 108) (I_{sw}) , (U_d)

13.

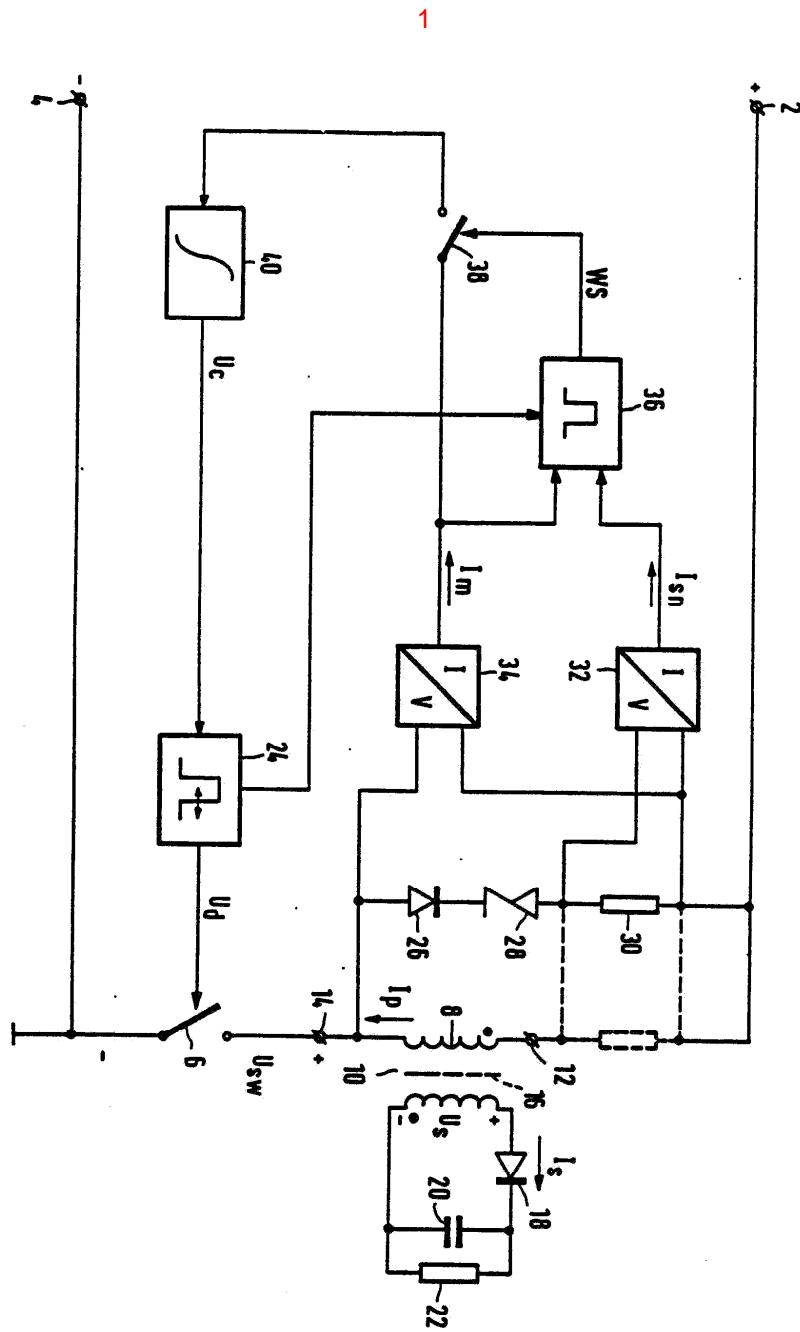
12 , , , (96) (I_{cmp}) (116,
 110); 가 ,

14.

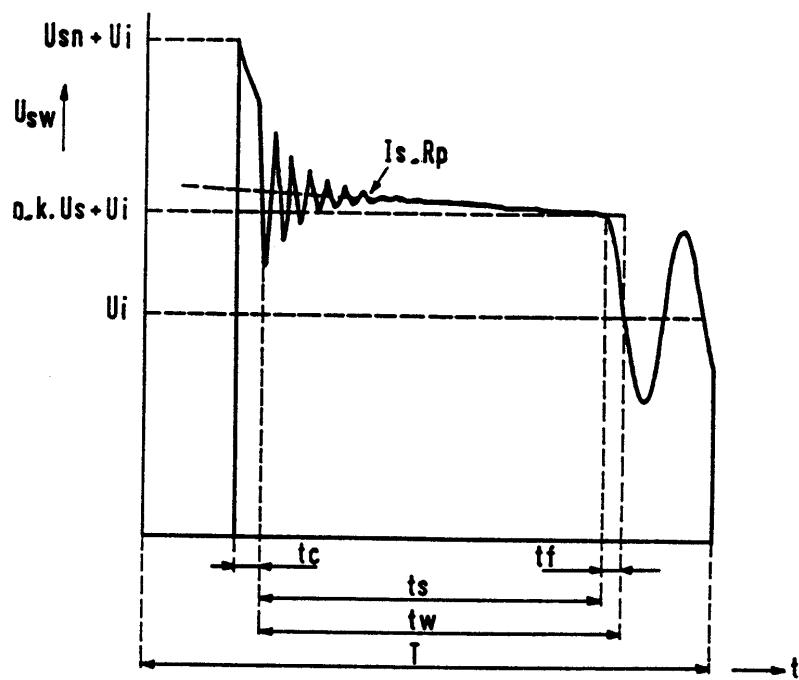
11 , , (96) (96) , (I_{curr})
 - (current-carrying element; 114)

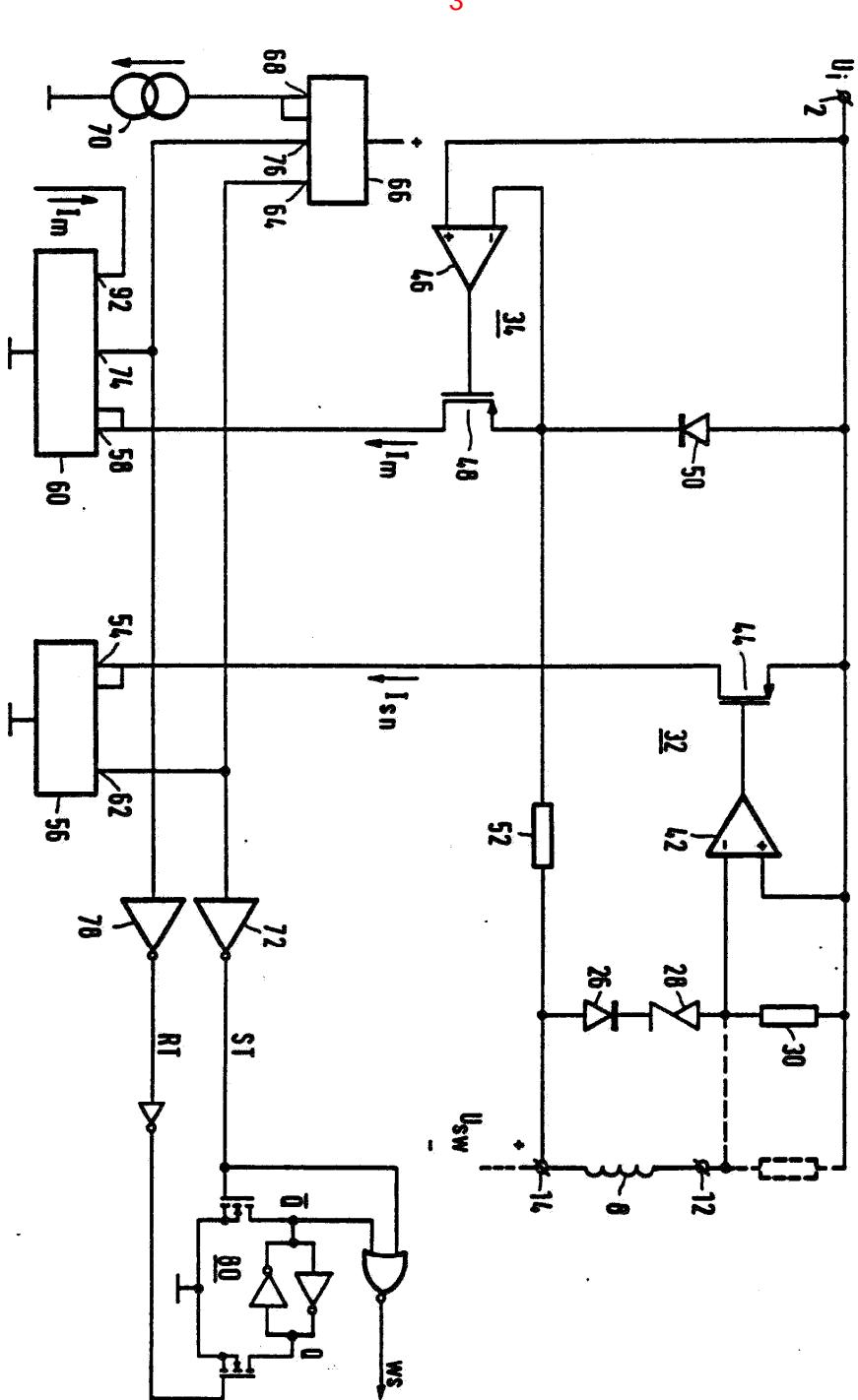
15.

14 , , (6) , (I_{curr})

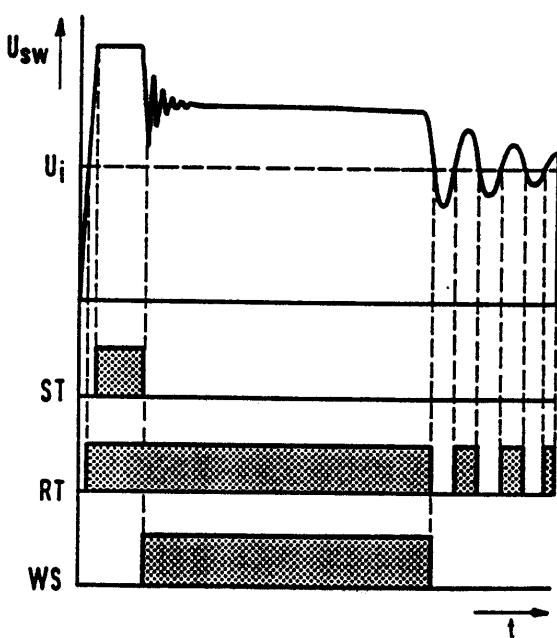


2





4



5

