

(19)
(12)

(KR)
(B1)

(51) 。 Int. Cl.7
B60H 1/00

(45)
(11)
(24)

2004 07 12
10-0440157
2004 07 02

(21) 10-2002-0035654
(22) 2002 06 25

(65)
(43)

10-2004-0000730
2004 01 07

(73) 231

(72) 2 402 203

(74)
:

(54)

;

;

;

2

1
2
3
4

6

가 가

가 42V 가

1

1 (110)

(120)

(130) 가 (130) 가 (110) 가

(IDLE STOP amp; GO) (IDLE STOP amp; GO) (3) (Engine Idle)

(Starter ; 12

V) (IGS ; 42V) (Motor ;)

가 (IDLE) 가 가 5~15%

가 가 (110)가

(IDLE STOP amp; GO) (IDLE STOP amp; GO)

가 (110) 가

(110)가 ,가

2 3 (240)

220), (230), (240) (210), (

(210)

(205) ; (Tin) (SOC) (240) (201) ;

(203) ; (207) ; (240)

(209)

(220) (ROM) (RAM)

(230)

(220) (210)

(240) (230)

(240) (250)

(250)

(260) (250) 1 (256) 1 (258)

(260) 2 (266) 2 (268)

(240)

1 (250) (252)(MC : Mechanical Compressor), 1 (254)(Condenser),

(Expansion Valve), 1 (256)(Evaporate), 1 (258)(Blower Unit)

(252)

1 (254) (252)

1 1 (254)

1 (256) 1

1 (258) 1 (256)

(260) (262)(EC : Electrical Compressor), 2 (264)(Condenser),

2 (Expansion Valve), 2 (266)(Evaporate), 2 (268)(Blower Unit)

(262)

2 (264) (262)

2 2 (264)

2 (266) 2

2 (268) 2 (266)

(209) 1 (Teva_mech) 1

2 (Teva_elec) 2

1 (230) 2

(230) (Tin) (240) (Tset) (TD) (262)

(230) 가 (IDLE STOP) 가

(250) 2 2

(Teva_elec) (260)

(230) 가 (IDLE STOP) (SOC)
 2 (250) (Tin) 2 (Tset) (TD)
 (260) (Teva_elec)
 (230) (SOC)
 (230) 가 (IDLE STOP) 가 가
 1 1 (Teva_mech)
 (250) (230) 1 1 (Teva_mech)가
 (0.5) (250)
 (230) (250) 2 (Tset) (TD)
 2 (Teva_elec) (Tin)
 (260) (230) 2 (Teva_elec)가
 (0.5) (260)
 2 6 (240)
 (230) 4 (S410~S420) (210)
 4 (S410) (230) (240)
 (201) / (ON/OFF)
 (S410) (201)가 (ON) (230) (S412)
 (203) (Tin)
 (230) (201)가 (ON) (Tin) 가
 (Tset) (TD) (262)가 (262)
 (S412) (TD)
 (230) (S414) (205)
 (S414) 가 (IDLE STOP) (230) (
 S416) (207)
 (230) (S416) (SOC) (80%) (260)
 (SOC) 6
 (S418) (230) (S416) (SOC)
 (230) (S414) 가 (IDLE STOP) 가 (S420)
 가
 (S420) 가 가 (230) 6
 (250) (TD) (S610), 2 (260) 2 (S612~S616).
 Teva_elec) (230) (S420) 가 가 가 (Tev
 5 1 1 (Teva_mech)
 a_mech) (250)
 5 (230) (S510) 1 (250)
 (Teva_mech)가 (0.5) (S512) (250)
 (230) (S510) 1 (Teva_mech)가 (0.5) (
 S518) (250)
 (230) (250) (S514) 2 (260)
 2 (Teva_elec) (TD)
 (230) (250) 2 (Teva_mech)가 (0.5) (
 2 (Teva_elec)가 (0.5) (S516) (
 260) (230) (S514) 2 (Teva_elec)가 (0.5) (S
 520) (260)
 (TD) (262) (Tin) (Tset)

가 (IDLE STOP) 가 (252)
 (262)
 1, 2 (256, 266) 1, 2 ((Teva_ (262)
 mech, Teva_elec)가 (0.5) (252)

가

(IDLE STOP amp; GO)

가

1 가 2 가

()

(IDLE)

가

가

가
 (IDLE)

가
 (Tin)
 가
 (Cooling Down)

(Tin)

가

(Tin)

가

가 가

(57)

1.

;
 ;
 ;
 ;

2.

1

(Tin)

(SOC)

;
 ;
 ;
 ;

3.

1

2

;

4.

3 ,
 (MC : Mechanical Compressor) ;

1 (Condenser) ;
 1 (Expansion Valve) ;
 1 (Evaporator) ;
 1 (Blower Unit)

5.
 4 ,
 (EC : Electrical Compressor) ;

2 (Condenser) ;
 2 (Expansion Valve) ;
 2 (Evaporator) ;
 2 (Blower Unit)

6.
 5 ,
 1 (Teva_mech) 1 ;
 2 (Teva_elec) 2

7.
 6 ,

8.
 7 , (Tin) (Tset) (TD)

9.
 7 , 가 (IDLE STOP) 가
 (Teva_elec) (TD) , 2 2

10.
 9 , 가 (IDLE STOP) ,
 (SOC) 2 (Teva_elec) (TD) , 2

11.
 10 , (SOC)

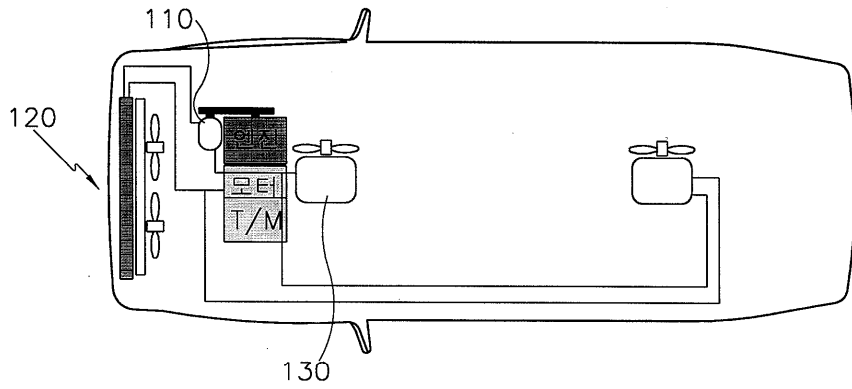
12.
 7 , 가 (IDLE STOP) 가 가
 1 1 (Teva_mech)

13.
 12 , 1 1 (Teva_mech)가

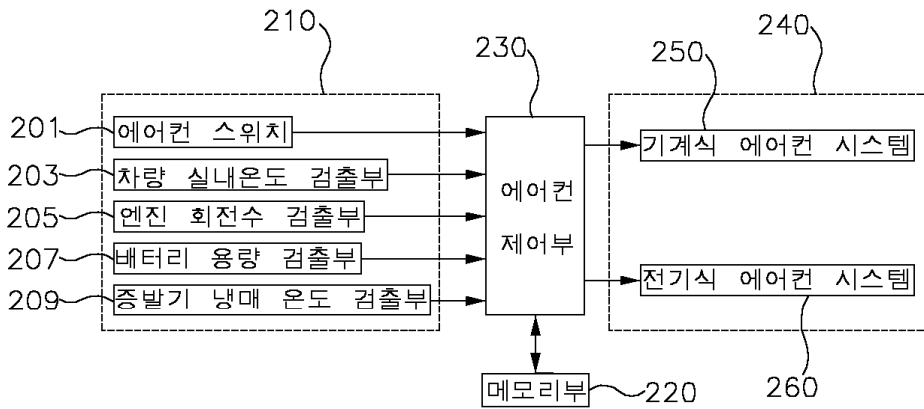
14.

- 13 , 2 (Teva_elec) 2
- 15. 14 , 2 2 (T
eva_elec)가
- 16. ;
- 17. 16 , 가 (Tin) (Tset) (Tin) (TD) / ; ;
- 18. 17 , 가 (IDLE STOP)
(SOC)
- 19. 17 , 가 (IDLE STOP) , 가
- 20. 18 , 가 (IDLE STOP) (SOC)
- 21. 20 , (SOC)
- 22. 17 , 가 (IDLE STOP) 가 가
- 23. 22 , 가
- 24. 23 ,
- 25. 24 , 가

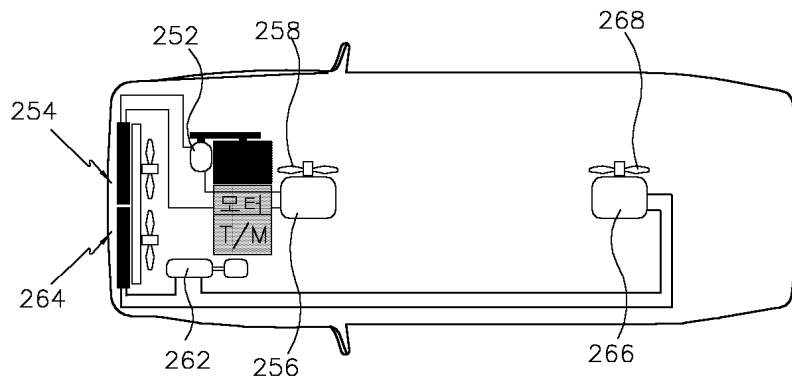
1



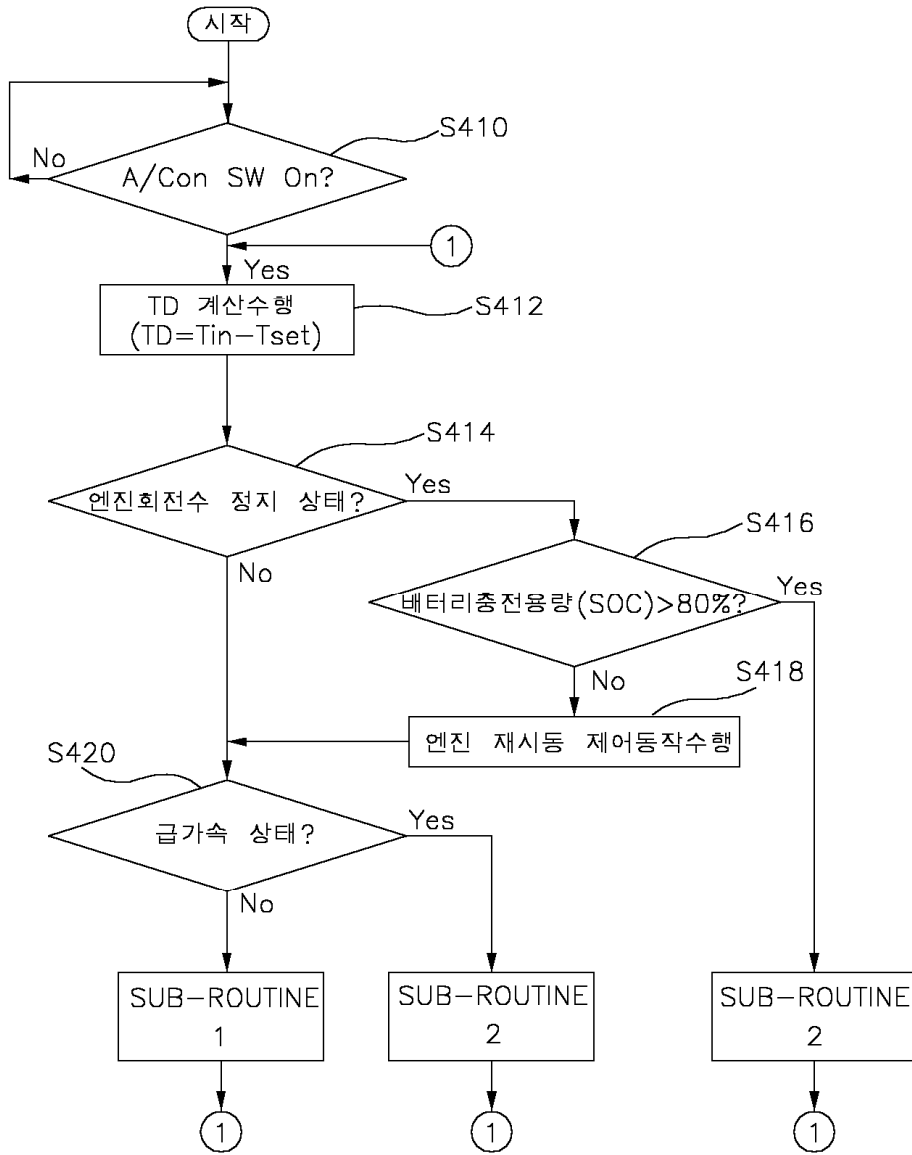
2



3



— 기계식 에어컨 시스템 루프
— 전기식 에어컨 시스템 루프



5

