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2003 11 27

(21) 10-2001-0045506
(22) 2001 07 27

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2002 04 19

(30) JP-P-2000-00312959 2000 10 13 (JP)

(73) 가 가
2 16 5

(72) 가 2 1-1 가 가

(74)

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(54)

가

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1 1
2 2
3

1 : 2 :
3 : 1 4 : 2
5 : 6, 28, 29 :
7 : 8 :

9, 10, 11, 12, 13, 14, 15, 16, 17 :

23 : 1 24 : 2
26 : 3 27 : 4

(54) , (51) , (52)[, (52)] (52) 1 , 3 (53) 2
(55) , (56) , (57) ,

(58)
(51) , (59) 12 (60) 가 , (61)
가 (60) (51) 7

(51) 5
(51) (61) 1 (53) 2 (54)
(52) (61a) ,
(54) (56)] (61b) 1 (53) 2 (54) (61a) [, 2
(54) () , (61b) (51) (61)

(55) , (62) (63) 2 (54)
(61a) 가 (61a) (63) (55) (

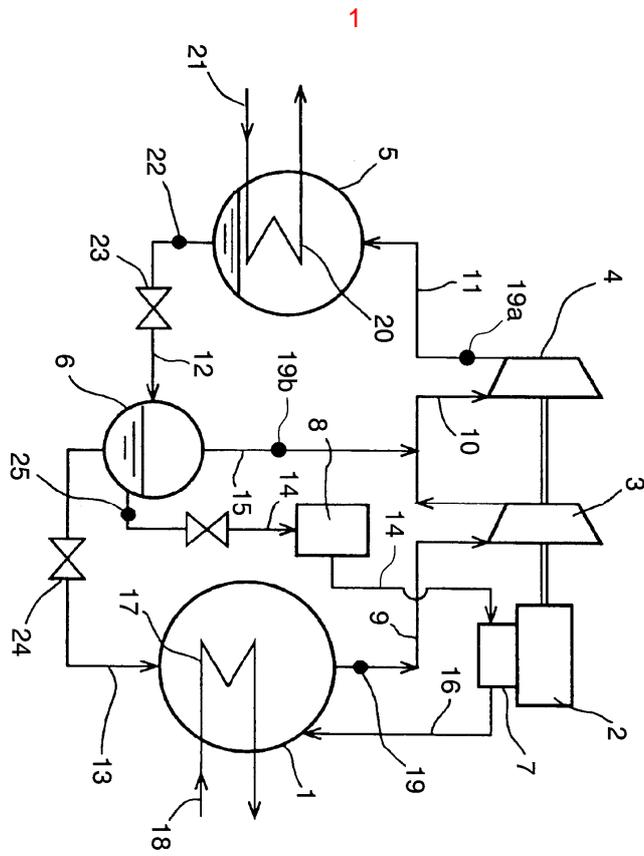
55) 40
(55) (64a) 1 (65)
(64a) (61b) 1 (56) (61b)
(64a) (53) 2 (54)
(51) (64a) 2 (66)

(55) (64) (64b) (52)
(64b) (58) , (52)
(57) , (64b) (51)
(64)]가 (52) , 40 (64b) (51) (64b)[
(51) (64b) (55) (51) 가
(64b)가 (51) ,

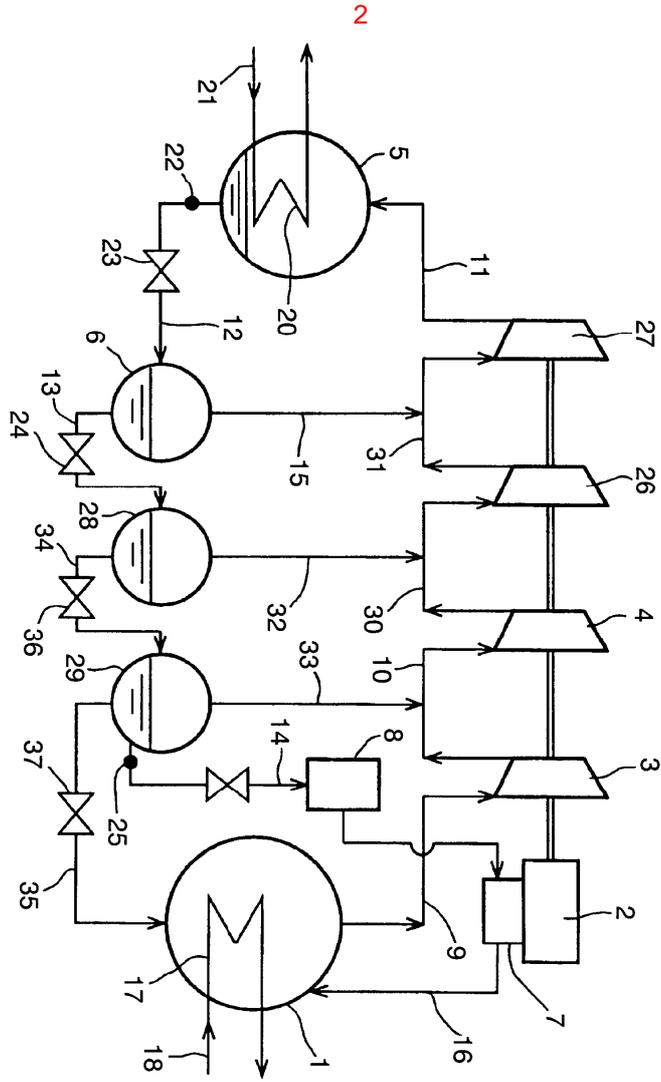
가

가
 , COP(coefficient of performance:) 가
 , COP " / " 가
 2 2 1 (3) 2 (4) 3 (26) 4
 (27) 4 가 (36, 37) 2 , 2 가 (28, 29),
 (30) 35) , 3 4 (6) (28, 29) (28, 29) (24, 26)
 (5) (28, 29) (6, 28) (22)
 (28) 15 (29) 10
 (29) (25) (2)
 1 2 4 (29) (22) 가
 29) (1) (29) (5) (40) 10 ()
 (1) 5 (1) (25) (2) (29) (1)
) () 가 (5) (29) (1)
 (1) (COP)가 가 ,
 4 가 ,
 2 4 , 3 4 가
 가 , , 가
 가

- (57)
1. , (intercooler) , , ; ,
 2. 1 , 가 ,
 3. 1 ,



1



3

