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2002 06 20

(21) 10 - 2000 - 0001723
(22) 2000 01 14

(65) 2000 - 0063967
(43) 2000 11 06

(30) 99 - 007854 1999 01 14 (JP)

(73) 가 가 가
가
2 1 1

(72) 가 1 4 1 가 가
가 1 4 1 가 가

(74)
:

(54)

가
, 가 (32₁) (半部)(32₂) , 1 (32)
(32₁) 2 (33) , (E) (pivot)(15)
(15) (34) (98R) (E) (15) (32₂) .
34) , . (

1 ,

2 1 ,

3 2 3-3 ,

4 3 4-4 ,

5 3 5-5 ,

6 3 6-6 ,

7 3 7-7 ,

8 2 ,

9 8 9-9 ,

10 ,

11 .

<

E : F :

T : () Wr : ()

15 : 24 :

32 : 1 () 32₁ :

32₂ : (半部) 33 : 2 ()

34 : 40 :

98R : ()

179 , 가 2649

1 11 , 1 , 2 1
 , 3 2 3-3 , 4 3 4-4 , 5 3 5-5 , 6 3 6-6
 , 7 3 7-7 , 8 2 , 9 8 9-9 , 10
 , 11 .

1 2 (Wr) (14) 3 . (11) (V) (12) (F) (12₁), (P) (15) (12) (13) (12₂) (12₃)
 (P) (13) (14) (176)가 , (18) 가 (16)가 (19)
 (17) (16)가

(P) 4 (E) (E) (T) (T) (2)
 1) (20) (24)가 , (13) (T) (2)가 , (E) (2)
 (25) (26)가 가 , (23)가 (T) (27)
 (26)

3 5 (E) (31) (P₁)
 1 (32) 2 (33) , 1 (32) (32₁)
 (32₂) , 2 (33) . 1
 (32) (P₂) (34)가 , (34)
 (P₃) (35)가 . 1, 2 (32, 33) (P₄)
 (36)가 .

(T) (P₅) 1 (37) 2
 (38) , 1 (37) 1, 2 (32, 33)
 (P₆) . 1 (37) (P₇)
 (39) .

3 , 1 (32) (41) (42)
 (43) (31) (34) (44)가
 , (34) 가 (44)
 . 1 (32) (32₃) (45) (31)
 (46) (44) (47) , (31) 2
 (44) 1 .

(31) (48) (36) , (36)
 (49)가 . (49) , (31)
 (50) (48) (49) . (51)
 (52)가 (34) (P₈) , (44)
 (53)가 (34) (52) .

1 (37) 2 (38) (31)

(T) (54)가 . 가 (54) (31)
(55) , (55) , 가 가 (56) ,가
(56) (31) 가 (57)
(55) .

1 (37) (39) (58) (59) (58)
가 (60) , (60) 가 가
(61) ,가 (61) (62) (60)
, (60) (58) (63)가 . (54) (
59) V (64)가 .

1 (37) (39) (58) (65) (66)
, (58), (65) (66) (67) . (39)
(66) (Wr) .
, (E) (31) (T) (54) ,
(54) V (64), (59), (63) (67) (Wr)

(E) (54) (57) , (59)
(62) (60) 가 (61) , LOW .
(31) 가 가 , (57) 가 (54)
(55) 가 (56) , LOW TOP (59) (60)
가 (61) 가 ,

3 4 , (49) (52₁)가 (71)
, (52) 1 (32) (72) , (34) (49)
가 (73) .

(E) (44) (52)
(52) (72) 1 (32) (34) ,
(E) (73) (49) .
(49) , (E) (71) (51) (53)
(49) (E) , 가 (51) ,

(E) (49), (50), (51), (53), (71, 72,
73) , (E)
, (71, 72, 73)

(E) (T)가 가 (E)
 (T)가 (P₆) (E)
 (45) (E) (53) (44) (53)
 가
 가
 (31) 1 (32) 2 (33) 2 , 1
 (32) (41), (42), (43) (31)
 (E)
 3 5 7 , 1, 2 (32, 33) 1 (37) 1 (37)
 37) 4 (74, 74 ; 75, 75) 1 (37) 1
 (32) 2 (74, 74) , 1 (37) 2 (37)
 3) 1 (75) (T) , 1
 (37) 2 (33) 1 (75) 2 (37)
 38) (T) 가 .
 1, 2 (32, 33) (31) (76)(5)가
 , 1 (37) (31) (77)(6 7)가
 . 1, 2 (32, 33) 1 (37) , 1, 2 (32, 33) (76)
 가 (78) , 1 (37) (77) 가
 (79)가 (80)(3) . 1 (37) (77)
 (T) (54) , (54) 1
 (37) (77) 가 .
 , 1 (32) 1 (37) 2 (74, 74)가 2 (8
 1, 81 ; 82, 82)가 , 2 (33) 1 (37) 2 (75,
 75)가 2 (83, 83 ; 84, 84)가 .
 1, 2 (32, 33) 4 (74, 74 ; 75, 75) 1 (37) , 1,
 2 (32, 33) 4 (81, 81 ; 83, 83)가 1 (37) 4 (82, 82 ; 84, 84)
 . , 5 6 , 1, 2 (32, 33) 1 (37)
 .
 , 1, 2 (32, 32) (78) 1 (37) (79) ,
 1, 2 (32, 33) (81, 81 ; 83, 83) 1 (37) (82, 82 ; 84, 84)
 (37) S(3)가 . 1, 2 (32, 33) 1
 S (E) (T)
 , (T) V (64)
 11 , (P) , (E)

(31) (T) (54) , 1, 2 (32, 33) 1
 (37) 4 (74, 74 ; 75, 75) , 1 (37) (77)
 (31) (54) , 1, 2 (32, 33) 1 (37)
 가 .

2 3 (25) (26) (85)
 2 (38) , (26) 2 (38)
 , (85) (31) (86)
 (26) (87) (85) (88)
 (85) (31) 가 , (86)
 (31) (31) .

, (27) (26) (97) (88) (85)
 , (85)가 (31)가 (E) .
 (85)

(26) 2 (38) 1, 2
 (37, 38) V (64) (26)가 가 , (26)
 . 2 (26) (T) (54)
 ((31)) (59) (58)) L₁ ,
 (54) 2 (38) L₂ V (64) (3) .
 , 2 (38) V (64)

7 1, 2 (37, 38) 가 (90)
 , (90) 1 (37) 1 (37) 2 (33)
 (75) (84)가 , (27) (26)
 (97)가 7 , (97) (90) 1, 2
 (37, 38) 1, 2 (37, 38) (90)
 (75) (84) (25) (97) , 1, 2
 (37, 38) (84) (97) .

8 9 , (13) (91, 91) (92, 92)
 (93, 94)가 . (93) 2
 (95, 95) (96, 96)가 , (13)
 (96, 96)가 2 (13₁, 13₂) (93, 94)
 (97) (15) , (32₁) (32₂)가 (9)
 1 (32) (32₂) (98L)(6)
 8R)(5) , 1 (37) (98L)(6)
 (15) (99, 99) .

, (P) (98L, 98R) (15) (15)
 (99, 99) , (93, 94)가 (92, 92)
 (96, 96)가 (13) (13₁, 13₂) 가 .
 (92, 92) (13) (91, 91) .

5 , (32₁) (98R) (32₁) (32₂) (98R)
(P₂) (34)가

가 ,

1 (37) (98L)

(98R)

5) (15) (31) (E) (34) (15) d(5)
(E) (34) 가 , (P) (1
가 (E)

2 10 (17) (98L, 98R)
(24) (15) (98L, 98R) (15)
(34) (24) (34) (E)
(24) (34) (40)

가

(V) (P) (P)
1, 2 (32, 33) 1 (37)
가 (98R) 1 (32) (98L, 98R) 1 (32)

1 , 1 1 2 ,
1 ,가 가 가

2 ,

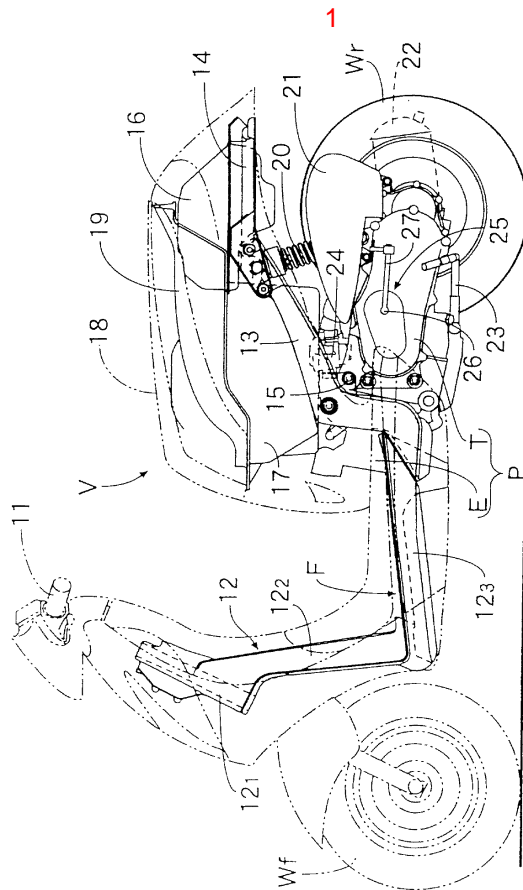
(57)

1.

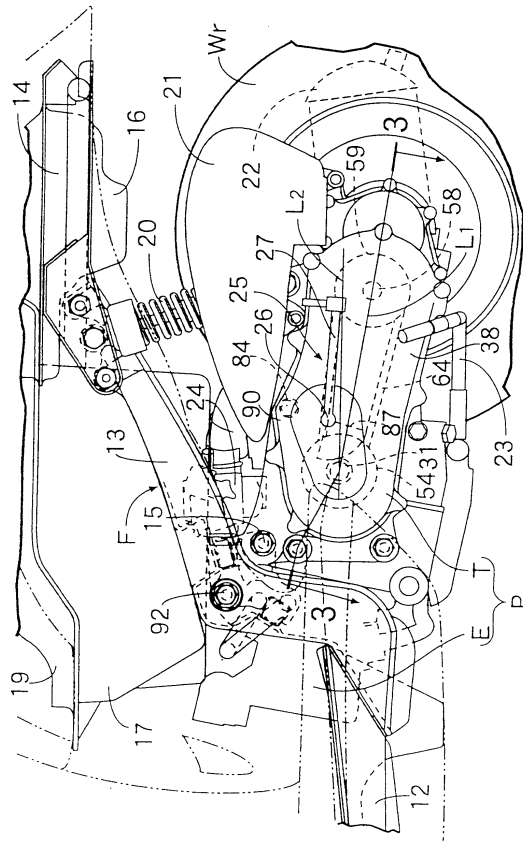
(Wr) (T) (F) , (E) (E)
 (32, 33) (34)가 (32₁)
 (32₂) 1 (32) , 2 (33)
 , (E) (15) (F) (98R) 1
 (32) (32₂) .

2.

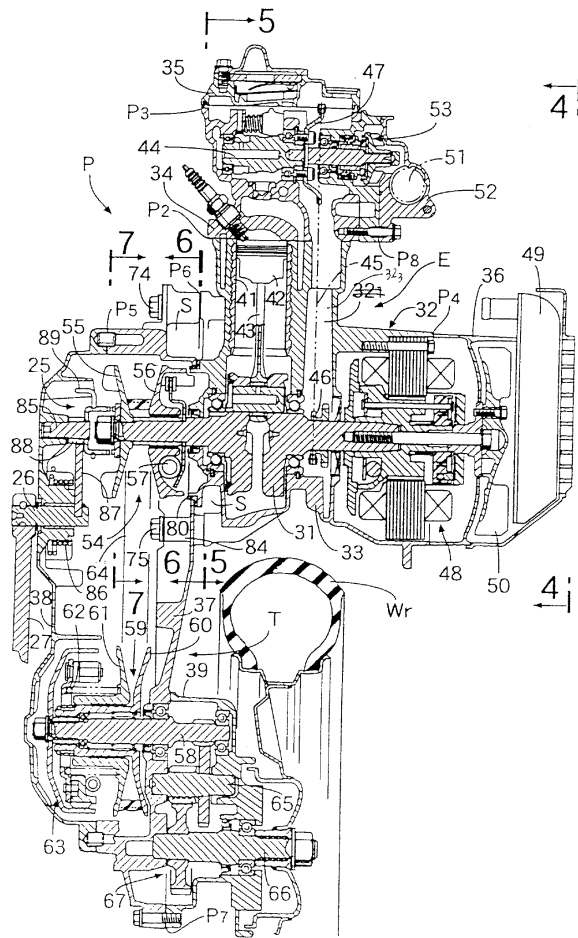
1 , (15) (24) , (24) (34)
 (40) .



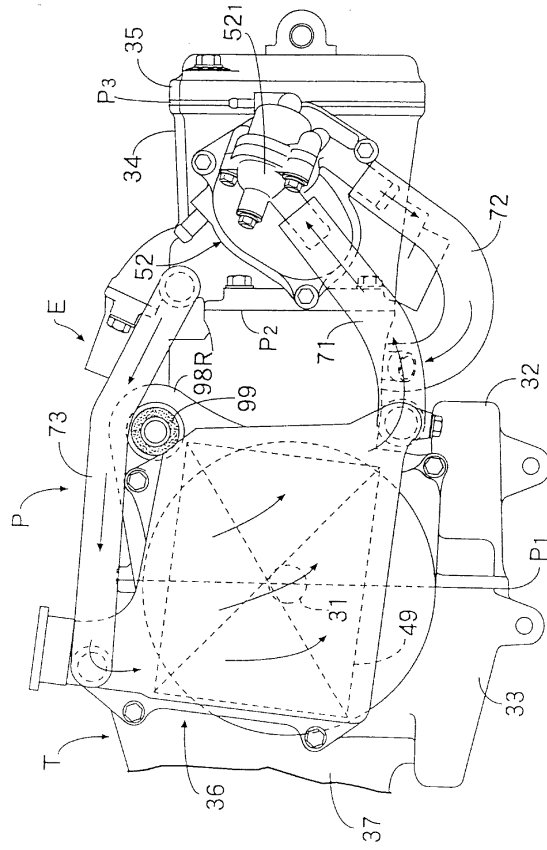
2



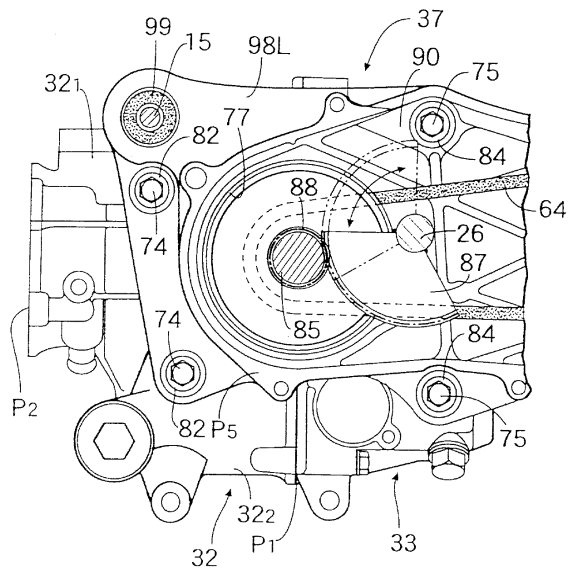
3



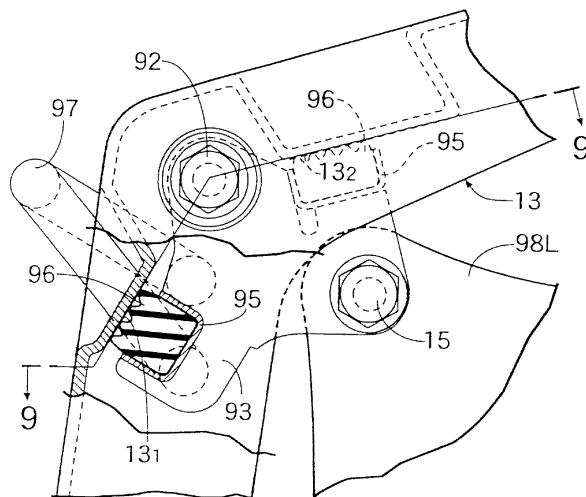
4



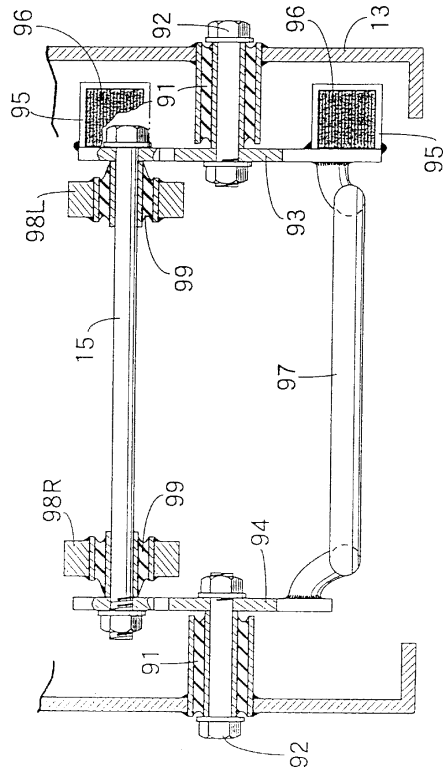
7



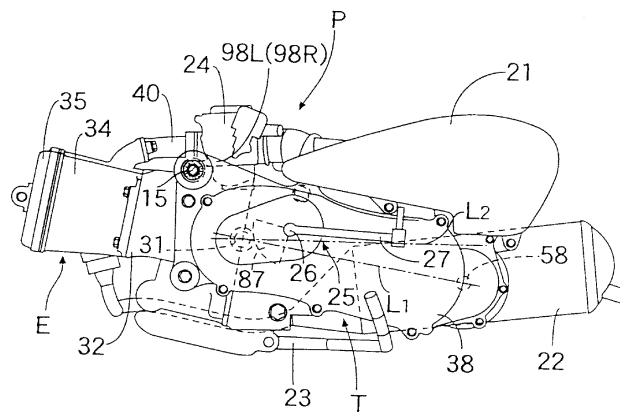
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9



10



11

