

(19)
(12)

(KR)
(A)

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(43)

10-2004-0002526
2004 01 07

(21)
(22)

10-2003-0036019
2003 06 04

(30)

0213910.3

2002 06 17

(GB)

(71)

HD1 6RA

(72)

HD16RA

가

HD16RA

(74)

:

(54)

1 2 (5, 6) (4) (12) (1) (4)

(10) (10) (10a) (4) 가 (10)

(10a)

2a

, (notch), (trailing edge), (vane)

1a, 1b 1c 가

2a, 2b 2c 1a 1c

(nozzle vane)

(mass flow rate)

(pivot)

(swing)

(over-opening)'

(cut-out)

(stationary pressure field)

가 (deviate)

(curvature)

(deviation)

1 가 (1) () 가 가 (2) (5) (s)
 hroud plate) (1) (4) (7) (3) (9)
 (1) (8) 가 (5) (10a) (10b) (5) (10a)
 (5) (10) (4) 가 가 (12) (11) (11)
 (4) (13) (torque) 가 (10) 가 (4) 가
 (5) 가 가 (14)가 (5)
 (5) (stirrup member)() 가

1a (4) 가 (10b) (10) 가 (7)
 (7) (1)

1b 1c ('over-open') 1b
 가 (5) (8) 가 (5) (10a)
 가 (4)가 가 (4) 가
 가 2a (10b) (7)
 가 (5) (8)
 (10b) 가 (7) (4) 가
 1c 가

가 (10)
 (11) (11) , (stress damage) (blade failure)
 (10) (stationary pressure field)
 .
 2a 2c 1a 1c , (notch)(14) ,
 . (10a) (14) ,
 (10a)가 ,
 가 (wake) ,
 (excitation)가 . (strain damage)
 가 ((excitation)가 (mass fl
 ow rate), , 2a 2b , (14)가 가
 (4) .
 2c (cutaway portion)(10b) , (1) (8) , (11)
 가 (4) ,
 가 , 3 (18, 19) (17) (16)
 가 (15) , 가 가 (17)
 (18, 19) (project) (integral axle)(21)
 (17) (21) (20) 가 , 가 (23)
 (17) () (20) 가 (17) , (20)
 가 (21) 가 (15) (21a)
 , (21a)
 (24) .
 4 (27) (28a) (29) (26) (27) 가 (25) , (28)
 ,
 가 , (,)
 ,
 ,
 (, - / .)
 ,
 가 (devia
 tion) (가 , .),
 .
 가 ,
 가 ,
 가 ,
 가 ,
 ,
 가 .

(57)

1.

가 ; ,
1 2 ;
가 (deviate)

2.

1 ,

3.

2 ,

4.

3 ,

5.

1 2 ,

/

6.

2 ,

7.

2 6 ,

8.

가

9.

8

1

가

가

10.

9

11.

9

(slotted)

12.

8

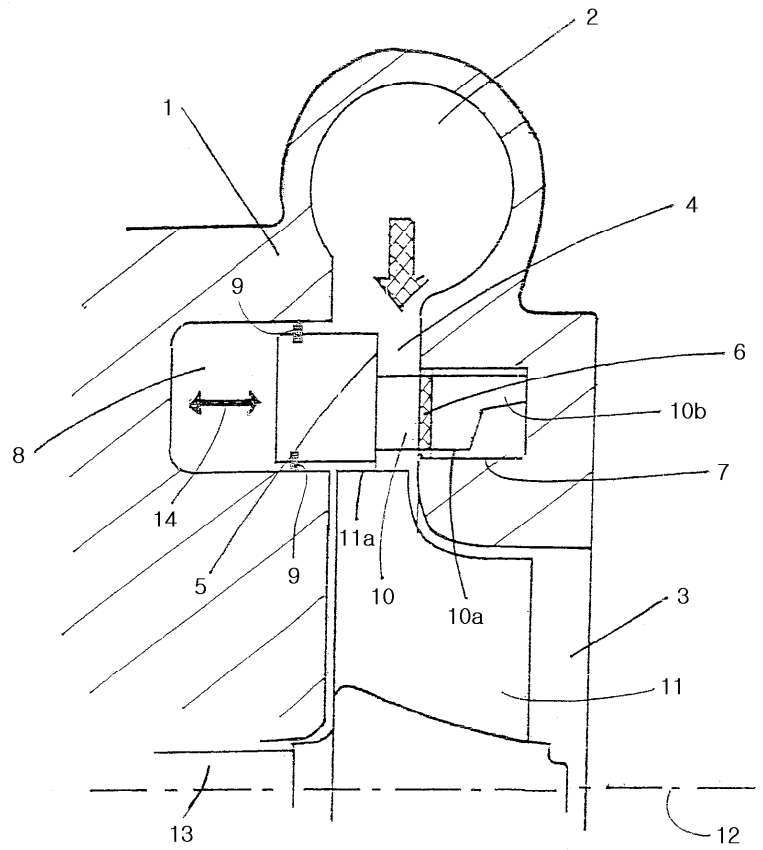
가

가

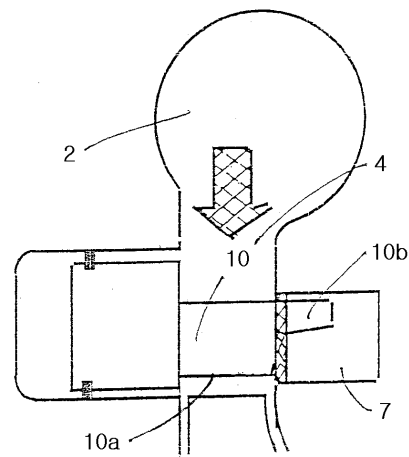
13.

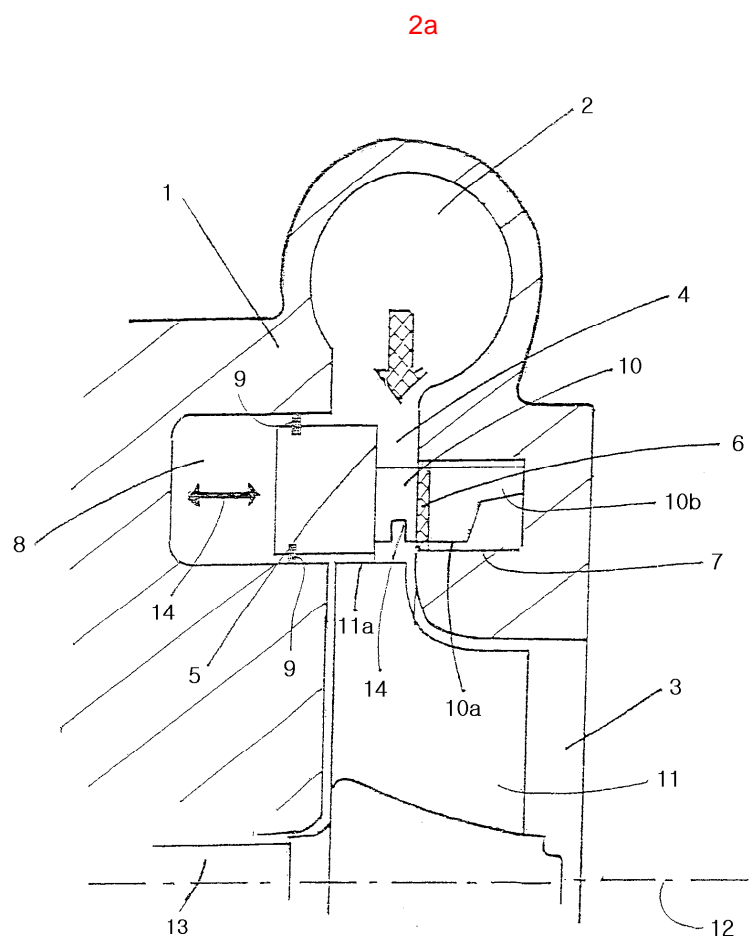
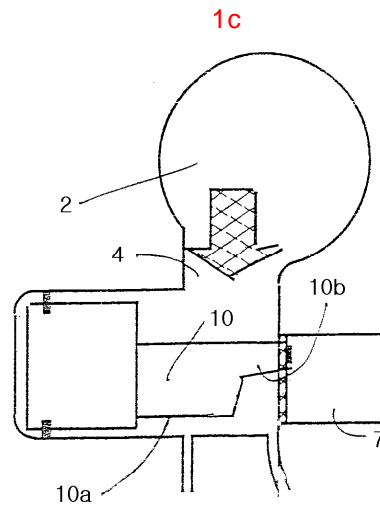
14.

1a

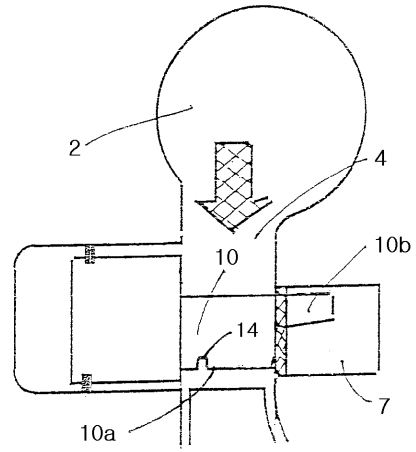


1b

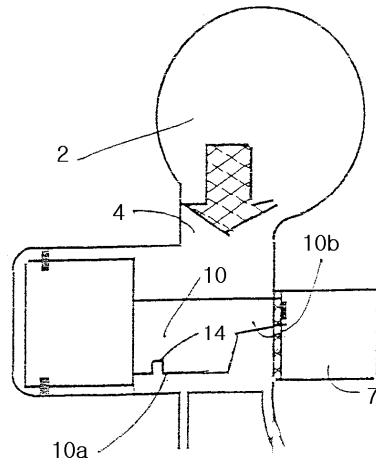




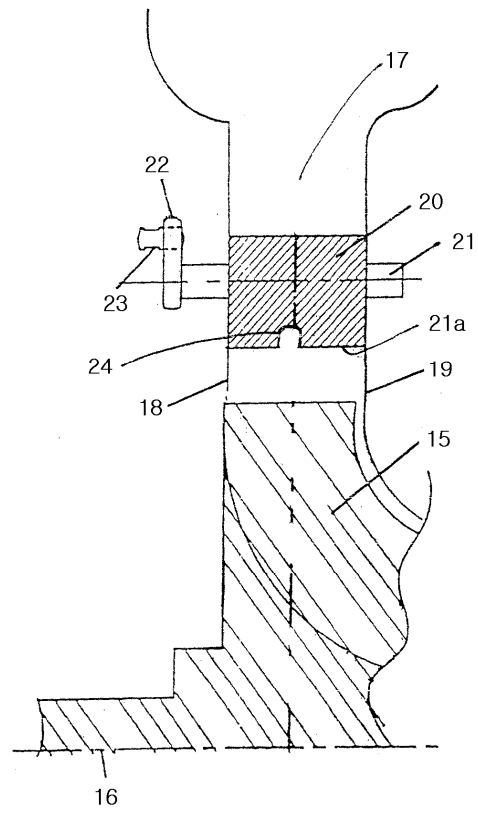
2b



2c



3



4

