

(19)  
(12)

(KR)  
(B1)

(51) 。 Int. Cl.<sup>6</sup>  
C08F 4/64

(45)  
(11)  
(24)

2003 10 04  
10-0382263  
2003 04 17

(21) 10-1998-0024974  
(22) 1998 06 29

(65) 1999-0013467  
(43) 1999 02 25

(30) 97-178239 1997 07 03 (JP)  
98-077652 1998 03 25 (JP)  
98-77652 1998 03 25 (JP)

(73) 가가 가 가 4 5-33

(72) 가 가 가 4-54-5 302

-403 8916-5 가가 가 가

755-1 3-32-1-1(3-701)

(74)  
:

(54) , ,

(a), (b), (c) (d)

- (a) ;
- (b) I, II XIII ;
- (c) IV ;
- (d) , / ,

1

가 , WO 94/20545 U.S. 5409875 , /  
 , WO 96/30122 ,  
 / - /  
 ) / (20 가 (CXs)  
 , 20 가 (CXs)가 /  
 (a), (b), (c) (d) /









가 200 ml , 538 mg (l) 50 ml  
n- , 10 ml o- 가 , 40 2 .  
, - 50 ml n- 3 , 2  
(1) (1) Ti 0.077 mmol/g .  
(2) -1

가 400 ml , 2 kg/cm<sup>2</sup> , 23  
g -1 82 g n- , 가 70 . , 6 kg/cm<sup>2</sup>  
, 가 . 1.0 mmol  
1.0 ml n- , , 9.5 mg (1) 5 ml n-  
가 , . 1  
60 4  
4.1 g / -1 SCB 19.1(/10000C), MFR 1.02(g/10 ) , MF  
RR 29.1 CXS 5.0 % .  
2  
(1)  
525.4 mg (l) , 12.2 mg 2- o-  
1(1) , (2) . (2) Ti 0.081 mmol/g  
(2) -1

8.6 mg (2) (1) 1(2) , 2.9  
g / -1 SCB 21.3(/1000C), MFR 1.55(g/10 ) , MFRR  
29.2 CXS 5.8 % .  
3  
(1)  
546.1 mg (l) , 14.0 mg 2-tert- o-  
1(1) , (3) . (3) Ti 0.079 mmol/  
g .  
(2) -1(1)  
17.3 mg (3) (1) , 16 g -1  
1(2) , 8.3 g / -1 SCB 19.2(/1  
000C), MFR 1.39(g/10 ) , MFRR 28 CXS 3.7 % .  
(3) -1(2)  
9.1 mg (3) (1) , 21 g -1  
1(2) , 3.9 g / -1 SCB 18.5(/1  
000C), MFR 0.89(g/10 ) , MFRR 30.6 CXS 3.8 % .  
4  
(1)  
497.5 mg (l) , 12.8 ml 2-tert- 3(1)  
(3') . (3') Ti 0.094 mmol/g .  
(2) -1  
13.8 mg (3') (1) 1(2)  
, 4.7 g / -1 SCB 19.9(/1000C), MFR 1.31(g/10  
) , MFRR 31.0 CXS 4.2 % .  
5  
(1)  
508.5 mg (l) , 10.6 mg 2,6- o-  
1(1) , (4) . (4) Ti 0.079 mm  
ol/g .  
(2) -1  
9.3 mg (4) (1) 1(2)  
, 3.8 g / -1 SCB 19.7(/1000C), MFR 1.01(g/10 )  
, MFRR 28.7 CXS 4.4 % .  
6  
(1)  
517.0 mg (l) , 15.8 mg 2,6- o-  
1(1) , (5) . (5) Ti 0.0  
75 mmol/g .  
(2) -1



(1)  
503.5 mg (l) , 19.0 mg 2,6- -tert- -4- o- (11) Ti  
0.121 mmol/g 1(1) , (11)

(2)  
12.7 mg (11) (1) , 25 g 1- SCB 21.6(  
1(2) , 2.8 g / -1  
, MFR 2.25(g/10 ) , MFRR 31.8 CXS 6.6 % .

(1)  
2.2 mg (l) (1) , 20 g 1- SCB 16.0(/100  
1(2) , 2.9 g / -1  
OC), MFR 0.57(g/10 ) , MFRR 28.6 CXS 2.7 % .

(1) / -1  
3.8 mg (l) (1) 1(2)  
, 4.3 g / -1 SCB 16.8(/1000C), MFR 0.54(g/10 )  
, MFRR 28.7 CXS 3.5 % .

(1)  
9.2 mg (l) (1) , 24 g -1 SCB 20.0(/1  
1(2) , 8.8 g / -1  
000C), MFR 1.06(g/10 ) , MFRR 29.1 CXS 7.3 % .

(1)  
8.9 mg (l) (1) 1(2)  
, 7.7 g / -1 SCB 21.1(/1000C), MFR 1.38(g/10 )  
, MFRR 29.1 CXS 7.8 % .

(1)  
9.1 mg (l) (1) , 25 g -1 SCB 21.9(/1  
1(2) , 6.5 g / -1  
000C), MFR 2.02(g/10 ) , MFRR 29.2 CXS 8.9 % .

(1)  
5.5 mg (l) (1) , 26 g -1 1(2)  
, 4.3 g / -1 SCB 23.6(/1000C), MFR 1.  
07(g/10 ) , MFRR 31.2 CXS 10.0 % .

(1)  
15.3 mg (3') (1) , 1 mmol  
1 SCB 19.5(/1000C), MFR 3.49(g/10 ) , MFRR 31.9 CXS 6.0 % .

(1)  
15.3 mg (3') (1) , 1 mmol  
1 , 12.5 g / -1  
SCB 31.0(/1000C), MFR 0.30(g/10 ) , MFRR 26.6 CXS 7.1  
% .

, / (20 가 (CXS)  
, / - )

1. (a), (b), (c) (d) ;  
 (a) ;  
 (b) I, II XIII ;  
 (c) IV ;  
 (d) .

2. 1 , (d) 2- .

3. 2 , (d) 2- 6- .

4. 1 , (a)가 , .

5. 4 , (a)가 , .

6. 1 , 가 , .

7. 1 3 , I, II XIII (b)

8. 1 , IV (c)  $Ti(OR)_n X_{4-n}$  ( , R 4 1 ) , X , , n 0 1 4 1

9. (A) 1 - (B) /

10. 9

11. 10 , 가 - .

