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(24)2003 07 22
10-0392072
2003 07 07(21) 10-2000-0052917
(22) 2000 09 07(65)
(43)2002-0019750
2002 03 13

(73)

100

(72)

111 807

111 807

106 1605

81-4

104 204

224

601 603

125 1106

(74)

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(54)

5-

-1,2-

(I) 5-

-1,2-

,
5-

-1,2-

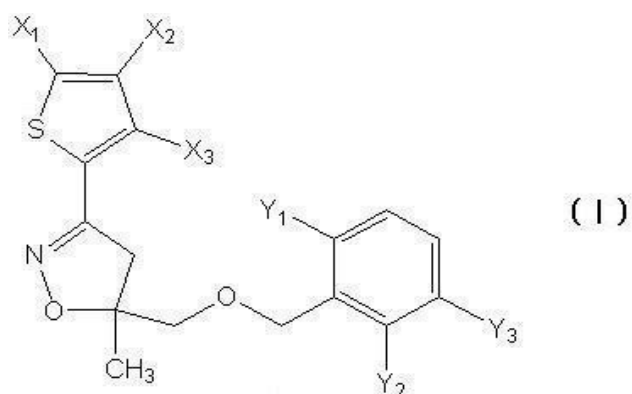
가

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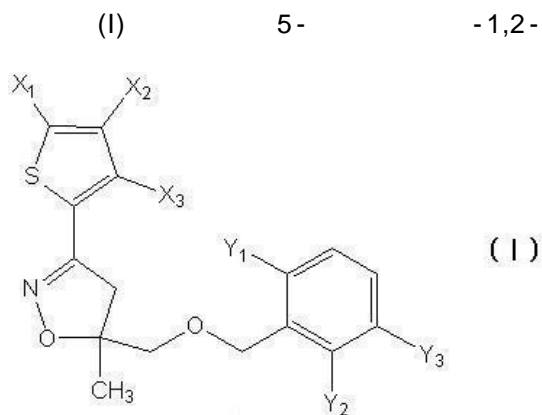
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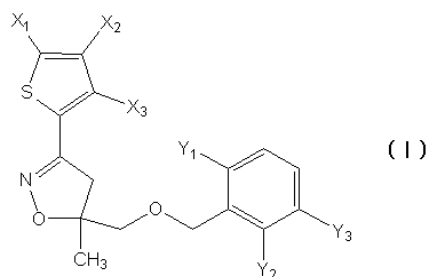


5- -1,2-

[illegible]

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5- -1,2-
5- -1,2-

(I) 5- -1,2-

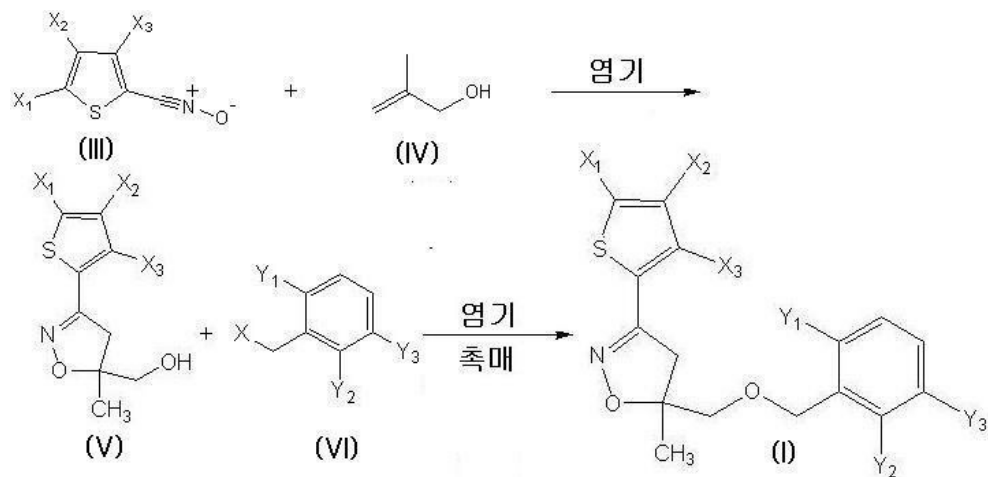


X_1, X_2, X_3 (, X_1, X_2, X_3 가
);
 Y_1, Y_2, Y_3 (I) , X_1, X_2 가 , X_3 가 , $Y_1,$
 Y_2, Y_3 (I) 가 .

- () 1,3- 가 () () 2- -2- -1
(VI)
(I)

1 :
() 2- -2- -1- (IV) 1,3- 가
(V) : , () 가 , C_1, C_4 , ,

2 : 5- -1,2- 가 가 (VI)
(I) :


$$(X_1, X_2, X_3, \dots, X_n);$$
$$X = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}, \quad Y = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}, \quad Z = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}.$$
$$Y_1, Y_2, Y_3 \quad (I) \quad 5- \quad -1, 2- \quad \text{가}$$

(I)

가 가 가 가

(I)

(I)

1

50

2

가

(I)

11

1,2-

,

フ

2

,

7

H-2,1,3-4(H) -2,2-), N-()
(Londax, 2-[3-(4,6- -2-)]), NC-311(5-[3-(4,6-
-2-)] -1- -4-)

가 가 .

$\frac{1}{30\text{ml}}$: 5-
 2-
 -5-
 -3-(2-
 (1.0mmol)
 -5-)-1,2-
 (1.0mmol)

2- (1.1mmol) 3ml 가 , 1 . , (100ml) 가
-5- (20ml)
, N- (1.0mmol) 가 1 2- -5-

(50ml) (100ml) 가 (100ml)
2- -5-
(1mmol) 가 20

2- (2.0mmol) , (1mmol) 30
(100ml) ,
5- -5- -3-(2- -5-) -1,2- .

0 10 20ml (1.0mmol) , (1.1 mmol) 가
 , 1ml (100ml) , (150ml) (1.1mmol) 가 , 2
 , (: / =1/5(v/v))
 5- -5- -3-(2- -5-)-1,2-
¹ H NMR(CDCl₃): 1.46(s, 3H), 2.48(s, 3H), 2.95(d, 1H, J=16.5Hz),
 3.40(d, 1H, J=16.5Hz), 3.52(dd, 2H, J=10.0, 13.0Hz),
 4.60(s, 2H), 6.68(d, 1H, J=3.5Hz), 6.93(d, 1H, J=3.5Hz),
 7.24-7.36(m, 5H)
 _____ 2 : 5-(2-) -5- -3-(2- -5-)-1,2-
 2- , 1 5-(2
 -) -5- -3-(2- -5-)-1,2-
¹ H NMR(CDCl₃): 1.46(s, 3H), 2.48(s, 3H), 2.96(d, 1H, J=16.5Hz),
 3.41(d, 1H, J=16.5Hz), 3.55(dd, 2H, J=10.0, 14.0Hz),
 4.66(s, 2H), 6.67-6.70(m, 1H), 7.01-7.39(m, 5H)
 _____ 3 : 5-(3-) -5- -3-(2- -5-)-1,2-
 3- , 1 5-(3
 -) -5- -3-(2- -5-)-1,2-
¹ H NMR(CDCl₃): 1.45(s, 3H), 2.47(s, 3H), 2.95(d, 1H, J=16.5Hz),
 3.40(d, 1H, J=16.5Hz), 3.54(dd, 2H, J=10.0, 13.8Hz),
 4.65(s, 2H), 6.68(d, 1H, J=3.5Hz), 6.93(d, 1H, J=3.5Hz),
 6.92-7.41(m, 4H)
 _____ 4 : 5-(2,6-) -5- -3-(2- -5-)-1,2-
 2,6- , 1
 5-(2,6-) -5- -3-(2- -5-)-1,2-
¹ H NMR(CDCl₃): 1.42(s, 3H), 2.46(s, 3H), 2.90(d, 1H, J=16.7Hz),
 3.35(d, 1H, J=16.7Hz), 3.51(dd, 2H, J=9.8, 14.4Hz),
 4.67(s, 2H), 6.65(m, 1H), 6.86(m, 3H), 7.25(m, 2H)
 _____ 5 : 5- -5- -3-(4- -5-)-1,2-
 2- -5- 4- -5- , 2- -5-
 4- -5- , 2- -5-
 4- -5- 5- -5- -3-(4- -5-)-1,2- -5- -3-(2
 - -5-)-1,2- 5- -5- -3-(4- -5-)-1,2-
 , 1 5- -5- -3-(4- -5-)-1,2-
¹ H NMR(CDCl₃): 1.45(s, 3H), 2.43(s, 3H), 3.00(d, 1H, J=16.5Hz),
 3.44(d, 1H, J=16.5Hz), 3.51(dd, 2H, J=10.0, 14.2Hz),
 4.59(s, 2H), 6.86(d, 1H, J=5.1Hz), 7.22(d, 1H, J=5.1Hz),
 7.23-7.33(m, 5H)
 _____ 6 : 5-(2-) -5- -3-(4- -5-)-1,2-
 2- -5- 4- -5- , 2- -5-
 4- -5- , 2- -5-
 4- -5- 5- -5- -3-(2
 - -5-)-1,2- 5- -5- -3-(4- -5-)-1,2-
 , 1
 5-(2-) -5- -3-(4- -5-)-1,2-
¹ H NMR(CDCl₃): 1.47(s, 3H), 2.45(s, 3H), 3.02(d, 1H, J=16.5Hz),
 3.46(d, 1H, J=16.5Hz), 3.57(dd, 2H, J=10.0, 15.4Hz),
 4.67(s, 2H), 6.88-7.43(m, 6H)
 _____ 7 : 5-(3-) -5- -3-(4- -5-)-1,2-
 2- -5- 4- -5- , 2- -5-
 4- -5- , 2- -5-
 4- -5- 5- -5- -3-(2
 - -5-)-1,2- 5- -5- -3-(4- -5-)-1,2-
 , 1
 5-(3-) -5- -3-(4- -5-)-1,2-
¹ H NMR(CDCl₃): 1.46(s, 3H), 2.44(s, 3H), 2.99(d, 1H, J=16.5Hz),
 3.44(d, 1H, J=16.5Hz), 3.53(dd, 2H, J=10.0, 13.2Hz),
 4.58(s, 2H), 6.85-7.27(m, 6H)

8 : 5-(2,6-) -5- -3-(4- -5-)-1,2-
 2- -5- 4- -5- , 2- -5-
 4- -5- 5- -5- -3-(4- -5-)-1,2- -3-(2
 - -5-)-1,2- 2,6- 1
 , 5-(2,6-) -5- -3-(4- -5-)-1,2- .

¹ H NMR(CDCl₃): 1.42(s, 3H), 2.41(s, 3H), 2.95(d, 1H, J=16.5Hz),
 3.41(d, 1H, J=16.5Hz), 3.53(dd, 2H, J=10.0, 15.9Hz),
 4.68(s, 2H), 6.82-6.89(m, 3H), 7.20-7.25(m, 2H)

9 : 5- -5- -3-(2- -5-)-1,2-
 2- -5- 2- -5- , 2- -5-
 2- -5- , 2- -5- 5- -5- -
 3-(2- -5-)-1,2- 5- -5- -3-(2- -5-)-1,2-
 , 1 5- -5- -3-(2- -5-)-1,2-
)-1,2- .

¹ H NMR(CDCl₃): 1.46(s, 3H), 2.92(d, 1H, J=16.5Hz),
 3.39(d, 1H, J=16.5Hz), 3.51(dd, 2H, J=10.2, 14.0Hz),
 4.59(s, 2H), 6.85(d, 1H, J=3.8Hz), 6.98(d, 1H, J=3.8Hz),
 7.24-7.35(m, 5H)

10 : 5-(3-) -5- -3-(2- -5-)-1,2-
 2- -5- 2- -5- , 2- -5-
 2- -5- 5- -5- -
 3-(2- -5-)-1,2- 5- -5- -3-(2- -5-)-1,2-
 , 1
 5-(3-) -5- -3-(2- -5-)-1,2- .

¹ H NMR(CDCl₃): 1.48(s, 3H), 2.96(d, 1H, J=16.7Hz),
 3.41(d, 1H, J=16.7Hz), 3.55(dd, 2H, J=10.2, 13.4Hz),
 4.60(s, 2H), 6.87-7.10(m, 5H), 7.24-7.35(m, 1H)

11 : 5-(2,6-) -5- -3-(2- -5-)-1,2-
 2- -5- 2- -5- , 2- -5-
 2- -5- 5- -5- -
 -3-(2- -5-)-1,2- 5- -5- -3-(2- -5-)-1,2-
 , 1
 5-(2,6-) -5- -3-(2- -5-)-1,2- .

¹ H NMR(CDCl₃): 1.45(s, 3H), 2.90(d, 1H, J=16.7Hz),
 3.37(d, 1H, J=16.7Hz), 3.54(dd, 2H, J=10.2, 15.8Hz),
 4.69(s, 2H), 6.82-7.00(m, 4H), 7.20-7.32(m, 1H)

12 : 5- -5- -3-(2,4- -5-)-1,2-
 2- -5- 2,4- -5- , 2- -5-
 2,4- -5- 5- -5-
 - -3-(2- -5-)-1,2- 5- -5- -3-(2,4- -5-)-1,
 2- 1 5- -5- -3-(2,4-
 -5-)-1,2- .

¹ H NMR(CDCl₃): 1.45(s, 3H), 2.36(s, 3H), 2.43(s, 3H),
 2.97(d, 1H, J=16.5Hz), 3.41(d, 1H, J=16.5Hz),
 3.52(dd, 2H, J=10.0, 13.2Hz), 4.61(s, 2H), 6.57(s, 1H),
 7.26-7.34(m, 5H)

13 : 5-(2-) -5- -3-(2,4- -5-)-1,2-
 2- -5- 2,4- -5- , 2- -5-
 2,4- -5- 5- -5-
 - -3-(2- -5-)-1,2- 5- -5- -3-(2,4- -5-)-1,2
 - 2- ,

1 5-(2-) -5- -3-(2,4- -5-)-1,2-

¹ H NMR(CDCl₃): 1.45(s, 3H), 2.35(s, 3H), 2.42(s, 3H),
2.97(d, 1H, J=17.3Hz), 3.41(d, 1H, J=17.3Hz),
3.55(dd, 2H, J=10.0, 14.8Hz), 4.67(s, 2H), 6.56(s, 1H),
6.97-7.40(m, 4H)

14 : 5-(3-) -5- -3-(2,4- -5-)-1,2-
2- -5- 2,4- -5- , 2- -5-
2,4- -5- , 2- -5- 5- -5-
- -3-(2- -5-)-1,2- 5- -5- -3-(2,4- -5-)-1,2-
- 3-
1 5-(3-) -5- -3-(2,4- -5-)-1,2-

¹ H NMR(CDCl₃): 1.46(s, 3H), 2.36(s, 3H), 2.42(s, 3H),
2.98(d, 1H, J=16.5Hz), 3.40(d, 1H, J=16.5Hz),
3.53(dd, 2H, J=10.1, 13.6Hz), 4.59(s, 2H), 6.56(s, 1H),
6.93-7.09(m, 3H), 7.22-7.30(m, 1H)

15 : 5-(2,6-) -5- -3-(2,4- -5-)-1,2-
2- -5- 2,4- -5- , 2- -5-
2,4- -5- , 2- -5- 5- -5-
- -3-(2- -5-)-1,2- 5- -5- -3-(2,4- -5-)-1,2-
- 2,6-
1 5-(2,6-) -5- -3-(2,4- -5-)-1,2-

¹ H NMR(CDCl₃): 1.43(s, 3H), 2.35(s, 3H), 2.42(s, 3H),
2.93(d, 1H, J=16.5Hz), 3.38(d, 1H, J=16.5Hz),
3.53(dd, 2H, J=10.0, 15.7Hz), 4.69(s, 2H), 6.55(s, 1H),
6.84-6.92(m, 2H), 7.22-7.27(m, 1H)

16 : 5-(2-) -5- -3-(4- -5-)-1,2-
2- -5- 4- -5- , 2- -5-
4- -5- , 2- -5- 5- -5-
3-(2- -5-)-1,2- 5- -5- -3-(4- -5-)-1,2-
- 2-
5-(2-) -5- -3-(4- -5-)-1,2-

¹ H NMR(CDCl₃): 1.43(s, 3H), 2.88(d, 1H, J=16.5Hz),
3.39(d, 1H, J=16.5Hz), 3.51(dd, 2H, J=10.0, 15.9Hz),
4.65(s, 2H), 6.75-7.11(m, 6H)

17 : 5-(2,6-) -5- -3-(4- -5-)-1,2-
2- -5- 4- -5- , 2- -5-
4- -5- , 2- -5- 5- -5-
3-(2- -5-)-1,2- 5- -5- -3-(4- -5-)-1,2-
- 2,6-
5-(2,6-) -5- -3-(4- -5-)-1,2-

¹ H NMR(CDCl₃): 1.42(s, 3H), 2.88(d, 1H, J=16.5Hz),
3.38(d, 1H, J=16.5Hz), 3.51(dd, 2H, J=10.0, 15.9Hz),
4.66(s, 2H), 6.85-7.20(m, 5H)

18 : 5-(3-) -5- -3-(4- -5-)-1,2-
2- -5- 4- -5- , 2- -5-
4- -5- , 2- -5- 5- -5-
3-(2- -5-)-1,2- 5- -5- -3-(4- -5-)-1,2-
- 3-
5-(3-) -5- -3-(4- -5-)-1,2-

¹ H NMR(CDCl₃): 1.57(s, 3H), 3.28(d, 1H, J=17.1Hz),

3.69(d, 1H, J=17.1Hz), 3.55(dd, 2H, J=10.2, 15.7Hz),
4.61(s, 2H), 6.98-7.06(m, 3H), 7.25-7.30(m, 3H)

19 : 5-(2,6-) -5- -3-(4- -5-)-1,2-
2- -5- 4- -5- , 2- -5-
4- -5- 5- -5- -
3-(2- -5-)-1,2- 5- -5- -3-(4- -5-)-1,2-
, 2,6- 1
5-(2,6-) -5- -3-(4- -5-)-1,2-

¹ H NMR(CDCl₃): 1.45(s, 3H), 3.22(d, 1H, J=17.3Hz),
3.65(d, 1H, J=17.3Hz), 3.55(dd, 2H, J=10.0, 14.2Hz),
4.70(s, 2H), 6.84-6.99(m, 3H), 7.23-7.29(m, 2H)

20 : 5-(3-) -5- -3-(4- -5-)-1,2-
2- -5- 4- -5- , 2- -5-
4- -5- 5- -5- -
3-(2- -5-)-1,2- 5- -5- -3-(4- -5-)-1,2-
, 3- 1
5-(3-) -5- -3-(4- -5-)-1,2-

¹ H NMR(CDCl₃): 1.45(s, 3H), 3.12(d, 1H, J=17.3Hz),
3.51(d, 1H, J=17.3Hz), 3.52(dd, 2H, J=10.0, 15.7Hz),
3.86(s, 3H), 4.59(s, 2H), 6.79-7.29(m, 6H)

21 : 5-(2,6-) -5- -3-(4- -5-)-1,2-
2- -5- 4- -5- , 2- -5-
4- -5- 5- -5- -
3-(2- -5-)-1,2- 5- -5- -3-(4- -5-)-1,2-
, 2,6- 1
5-(2,6-) -5- -3-(4- -5-)-1,2-

¹ H NMR(CDCl₃): 1.42(s, 3H), 3.08(d, 1H, J=17.3Hz),
3.47(d, 1H, J=17.3Hz), 3.53(dd, 2H, J=10.1, 14.2Hz),
3.87(s, 3H), 4.70(s, 2H), 6.80-6.92(m, 3H),
7.21-7.26(m, 2H)

22 : 5-(2,6-) -5- -3-(4- -2- -5-)-1,2-
2- -5- 4- -2- -5- , 2- -5-
-5- 4- -2- -5-
5- -5- -3-(2- -5-)-1,2- 5- -5- -3-(4-
-2- -5-)-1,2- , 2,6-
, 1 5-(2,6-) -5- -3-(4-
-2- -5-)-1,2-

¹ H NMR(CDCl₃): 1.43(s, 3H), 2.89(d, 1H, J=16.5Hz),
3.36(d, 1H, J=16.5Hz), 3.53(dd, 2H, J=10.0, 15.9Hz),
4.68(s, 2H), 6.85-7.31(m, 4H)

23 : 5-(2,6-) -5- -3-(2- -5-)-1,2-
2- -5- 2- -5- , 2- -5-
2- -5- 5- -5- -
- -3-(2- -5-)-1,2- 5- -5- -3-(2- -5-)-1,2-
- , 2,6-
1 5-(2,6-) -5- -3-(2- -5-)-1,2-

¹ H NMR(CDCl₃): 1.46(s, 3H), 2.92(d, 1H, J=16.4Hz),
3.42(d, 1H, J=16.4Hz), 3.57(dd, 2H, J=10.1, 19.5Hz),
4.68(dd, 2H, J=9.3, 12.3Hz), 6.88(t, 2H, J=7.3Hz),
7.05(d, 1H, J=4.3Hz), 7.21-7.33(m, 1H),

7.84(d, 1H, J=4.3Hz)

24 : 5-(2,6-) -5- -3-(4- -2- -5-)-1,2-

2- -5- 4- -2- -5- , 2- -

5- 4- -2- -5- , 2- -5-

4- -2- -5- -5-

5- -5- -3-(2- -5-)-1,2- 5- -5- -3-(4-

-2- -5-)-1,2- , 2,6-

, 1 5-(2,6-) -5- -3-(4-

-2- -5-)-1,2-

¹ H NMR(CDCl₃): 1.45(s, 3H), 2.43(s, 3H), 2.93(d, 1H, J=16.7Hz),

3.42(d, 1H, J=16.5Hz), 3.56(dd, 2H, J=10.2, 20.9Hz),

4.68(dd, 2H, J=11.2, 14.8Hz), 6.88(t, 2H, J=7.5Hz),

7.20-7.35(m, 1H), 7.69(s, 1H)

25 :

4,983,210 가 , 109 (A)

pH 6.0 (140cm²) , 3 (ORYSA)

2cm (ECHOR), (SCPJU), (MOOVA

), (CYPSE) (SAGPY) , 3cm . 2 , 3,

5, 6, 8, 11, 13, 15, 18, 19, 21, 22 A(4,983,210 , 109)

0.063, 0.25, 1 4.0kg/ha가 , 가 가 0.016,

, 0 가 , 100 가 (: 1).

[1]

	(Kg/ha)	ORYSA (3)	ORYSA ()	ECHOR ()	SCPJU ()	MOOVA ()	CYPSE ()	SAGPY ()
3	4.000 1.000 0.250 0.063 0.016	40 20 10 0 0	100 100 1 00 40 20	100 100 10 0 55 20	100 60 40 20 0	100 80 60 50 20	100 100 90 40 0	40 50 0 0 0
5	4.000 1.000 0.250 0.063 0.016	70 0 0 0 0	100 100 1 00 10 0	100 100 10 0 30 0	100 60 30 10 0	100 90 80 10 0	100 100 30 0 0	70 50 20 0 0
6	4.000 1.000 0.250 0.063 0.016	30 30 20 20 0	100 100 1 00 40 0	100 100 10 0 100 20	100 100 8 0 80 20	100 80 80 70 0	100 100 10 0 100 100	30 30 0 0 0

	(Kg/ha)	ORYSA (3)	ORYSA ()	ECHOR ()	SCPJU ()	MOOVA ()	CYPSE ()	SAGPY ()
8	4.000 1.000 0.250 0.063 0.016	90 20 0 0 0	100 100 1 00 30 10	100 100 10 0 100 50	100 40 10 10 0	100 100 90 90 50	100 100 9 0 50 0	80 50 0 0 0
11	4.000 1.000 0.250 0.063 0.016	0 0 0 0 0	100 100 1 00 0 0	100 100 10 0 70 20	80 30 20 0 0	100 100 90 50 30	100 100 4 0 0 0	50 30 0 0 0
13	4.000 1.000 0.250 0.063 0.016	40 20 20 0 0	100 100 1 00 40 0	100 100 10 0 70 50	100 90 70 30 30	100 90 80 70 50	100 100 9 0 0 0	30 0 0 0 0
15	4.000 1.000	100 60 1	100 100 1	100 100 10	100 100 1	100 100 10	100 100 7	70 40 20

	0.250 0.063 0.016	0 0 0	00 40 0	0 100 40	00 50 20	0 100 90	0 0 0	0 0
18	4.000 1.000 0.250 0.063 0.016	0 0 0 0 0	100 100 1 00 100 100	100 100 10 0 60 0	100 100 1 00 10 0	100 100 10 0 100 0	100 100 7 0 40 0	20 0 0 0 0
19	4.000 1.000 0.250 0.063 0.016	90 70 30 0 0	100 100 1 00 40 20	100 100 10 0 100 100	100 100 1 00 100 0	100 100 10 0 95 20	100 100 9 0 90 30	30 20 0 0 0
21	4.000 1.000 0.250 0.063 0.016	95 50 40 0 0	100 100 1 00 30 0	100 100 10 0 100 0	100 100 1 00 100 0	100 100 10 0 100 0	100 80 60 40 0	0 0 0 0 0
23	4.000 1.000 0.250 0.063 0.016	20 0 0 0 0	100 100 70 10 0	100 100 10 0 30 0	100 0 0 0 0	100 100 70 50 0	100 80 50 0 0	0 0 0 0 0
A	4.000 1.000 0.250 0.063 0.016	0 0 0 0 0	100 100 20 0 0	100 100 20 0 0	100 70 10 0 0	100 80 80 0 0	100 100 1 0 0 0	100 100 1 00 0 0

1 , A

26 : 2

pH 6.0 (140cm²) , (ORYSA) (ECHOR)

2cm , 3cm . 7 (ORYSA)

2cm , 2 8 (ECHOR)

-20 50%(v/v) , 가 가 0.016, 0.063, 0.25, 1 4.0kg/

ha가 , 3 , 0

가 , 100 가 (: 2).

[2]

2

(Kg/ha)	ORYSA		ECHOR ()
	2		
4.000 1.000 0.250 0.063 0,016	65 20 0 0 0	95 80 55 20 0	100 100 100 95 45

1Kg/ha 가 , 60 250g/

ha , 19 , 15g/ha

, A

, A

5- -1,2-

-1,2-

5-

(57)

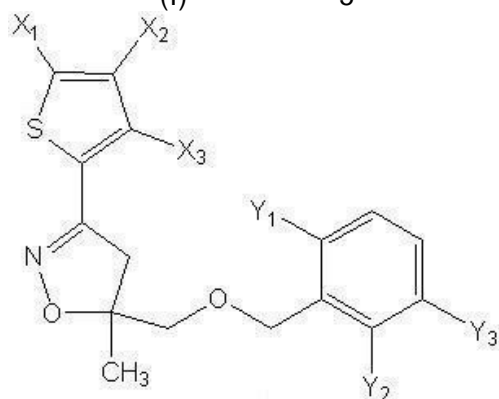
1.

(I)

5-

-1,2-

:



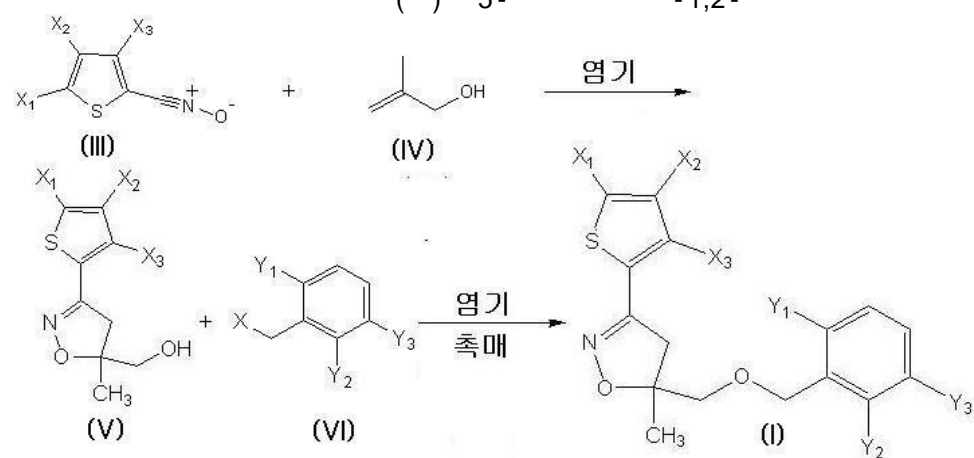
(I)

 X_1, X_2, X_3
 $(X_1, X_2, X_3 \text{ 가 } \dots)$
 Y_1, Y_2, Y_3

2.

 $X_1, X_2 \text{ 가 } \dots, X_3 \text{ 가 } \dots$
 Y_1, Y_2, Y_3
 5- -1,2-

3.

 $(\dots) (\dots) 2- -2- -1- (IV) 1,3- \text{ 가}$
 $(V) (\dots) (\dots) 5- -1,2- \text{ 가 } (VI)$

 X_1, X_2, X_3
 $(X_1, X_2, X_3 \text{ 가 } \dots)$
 $X \dots$
 Y_1, Y_2, Y_3

4.

 (\dots)

가

 $(\dots) 5- -1,2-$

5.

 $3 \dots$

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6.

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7.

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8.

3

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9.

1

(I) 5- -1,2-

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10.

9

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11.

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12.

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13.

9

(I) 5- -1,2-

1 50%(w/w) ,

14.

9

,

(I) 5- -1,2-
2 40%(w/w)

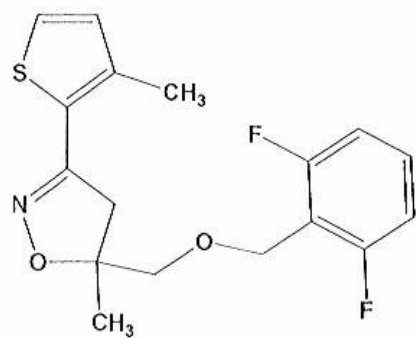
15.

9

16.

-(2,6-) -5- -3-(4- -5-)-1,2-

5



17.

-(2,6-) -5- -3-(4- -5-)-1,2-

5

