

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl.<sup>7</sup>  
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(43)

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12309

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3 281187

(74)

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(54)

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1

105 :

110 :

120 : 130 :

140 : 150 :

160 : 170 :

가 , 가 ,  
(dynamic behavior)  
(range limits)  
(differentiate)  
(fuel cell rate)  
(classify)  
(100)  
(110), (120), (130), (150)  
(160), (170)  
(110)  
(120)  
(105), (dyn  
(residual computer)  
(105)  
(dif  
(130)

(residual computer)(160)  
hold comparator)(170)

(residual thres  
(140)

(180)

(195)

(105)

(flowing fuel material),

(flowing oxidizer material)

(105)

phosphoric acid fuel cells),

(discrete-time rank filters

)

(innovation)

(Wiener filters),

(Luenberger observers)

ckward differencing)

(differentiating)' AC

(AC coupled filtering and ba  
(time derivative)

(105)가

0

(105)가

0

(1)

$$S = V_1 - V_2 \quad S, V_1, V_2 \in \Re$$

(2)

$$S = P - VI, \quad P, V, I \in \Re$$

$$S = \frac{dx}{dt} - Ax - Bu,$$

$$x \in \Re^n, \quad A \in \Re^{n \times n}, \quad B \in \Re^{n \times m}$$

$$( \quad \text{가} \quad ) \quad , \quad u \in \Re^m$$

$$( \quad \text{가} \quad )$$

(3)

$$S = Cz - y$$

$$\frac{dz}{dt} = Az + Bu + H(Cz - y)$$

$$y = Cx$$

$$\frac{dx}{dt} = Ax + Bu$$

$$z \in \Re^n \quad \text{가} \quad ) \quad , \quad C \in \Re^{p \times n}, \quad y \in \Re^p$$

$$, \quad x \in \Re^n \quad ( \quad \text{가} \quad ) \quad , \quad H \in \Re^{n \times p}$$

(110),

(130)

(170)가

가

(possibly vector-valued)

(105)

(180)

( )

0) (110), (120), (130), (140), (150), (16  
(170)  
(DSPs) ( )

, 가

(105)

가

가

(57)

1.

plurality of range flags) (a plurality of range limits) (a  
(fuel cell rates)

2.

1

, 가

3.

1

4.

1

**5.**

(residual statistic)

6.

(105) ,

(105)

 $(110)$  ,

(120) ,

(130) ,

(140)

(100).

**7.**

6

, , , , , 가

**8.**

6

(105)  
(150)

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9.

6 ,

(160) ,

(170) ,

(140)

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10.

(105) ,

(105)

(150) ,

(110) ,

(120) ,

(130) ,

(160) ,

(170) ,

(140)

,

(100).

