

(19)  
(12)

(KR)  
(B1)

(51) 。 Int. Cl.<sup>7</sup>  
G06N 7/02

(45)  
(11)  
(24)

2003 12 12  
10-0409195  
2003 11 28

(21) 10-2000-0080012  
(22) 2000 12 22

(65) 2002-0050828  
(43) 2002 06 28

(73) 32

32

(72) 32

32

32

32

(74)  
:

(54)

PLC

PLC

PLC

PLC

PLC

PLC

$$f(x) = \frac{\sum_{l=1}^M y^l \left[ \prod_{i=1}^n \exp \left( - \left( \frac{x_i - \bar{x}_i^l}{\sigma_i^l} \right)^2 \right) \right]}{\sum_{l=1}^M \left[ \prod_{i=1}^n \exp \left( - \left( \frac{x_i - \bar{x}_i^l}{\sigma_i^l} \right)^2 \right) \right]}$$

1

1 PLC  
2 PLC  
3 PLC

11 : 12 :  
13 : 14 :

PLC(Programmable Logic Controller)  
PLC

, , PLC  
PLC

1.

(Delphi) 가  
가  
1950 . Delphi  
Rand , Helmer DIkey 2

2.  
가.

가  
가  
3가 가  
가  
가  
3-5  
가  
가  
2가  
가  
가 (X )  
(Curve Fitting with Judgement), S  
S  
S  
가  
가  
가

, 20



$$W_l = \prod_{i=1}^n \mu_{A_i}^2(x_i)$$

(3)

3

$$\sum_{l=1}^n y_l^{-1} W_l$$

(4) PLC

PLC

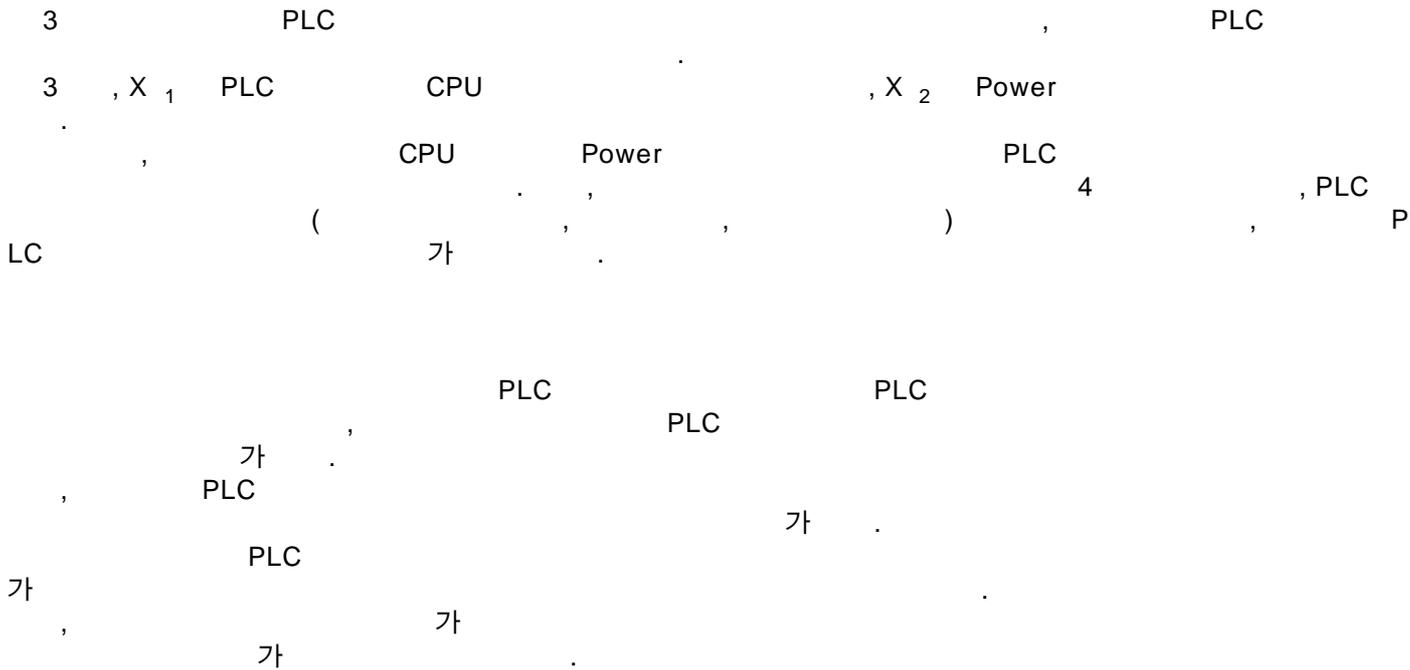
(f(x))

4

4

PLC

$$f(x) = \frac{\sum_{l=1}^M y_l^{-1} \left[ \prod_{i=1}^n \exp\left(-\left(\frac{x_i - \bar{x}_i}{\sigma_i}\right)^2\right) \right]}{\sum_{l=1}^M \left[ \prod_{i=1}^n \exp\left(-\left(\frac{x_i - \bar{x}_i}{\sigma_i}\right)^2\right) \right]}$$



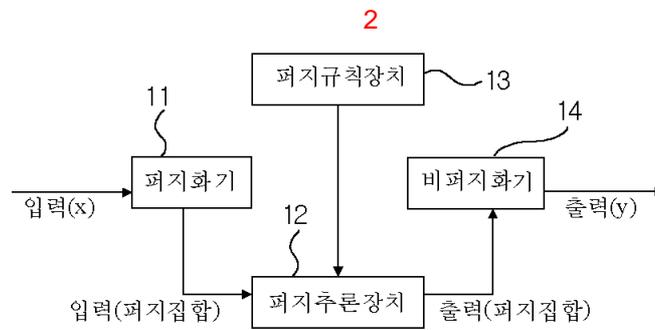
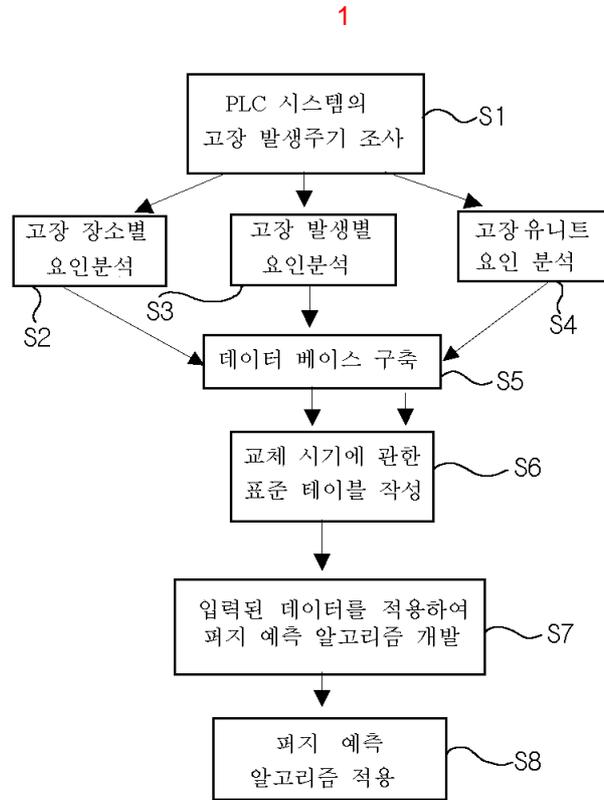
(57)

1.

PLC(Programmable Logic Controller)  
 PLC

PLC

2.  
1



3

