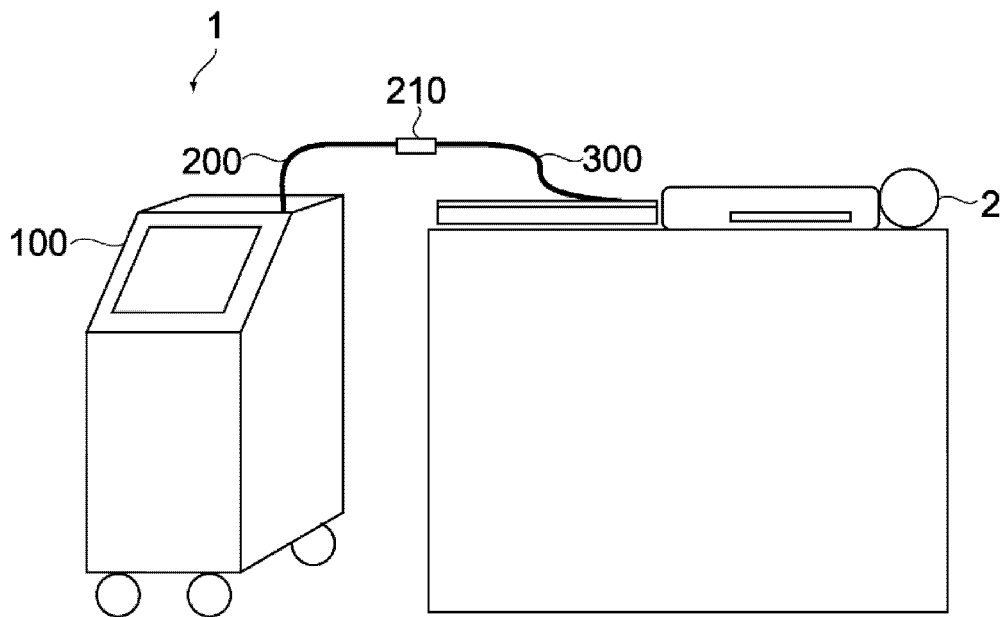
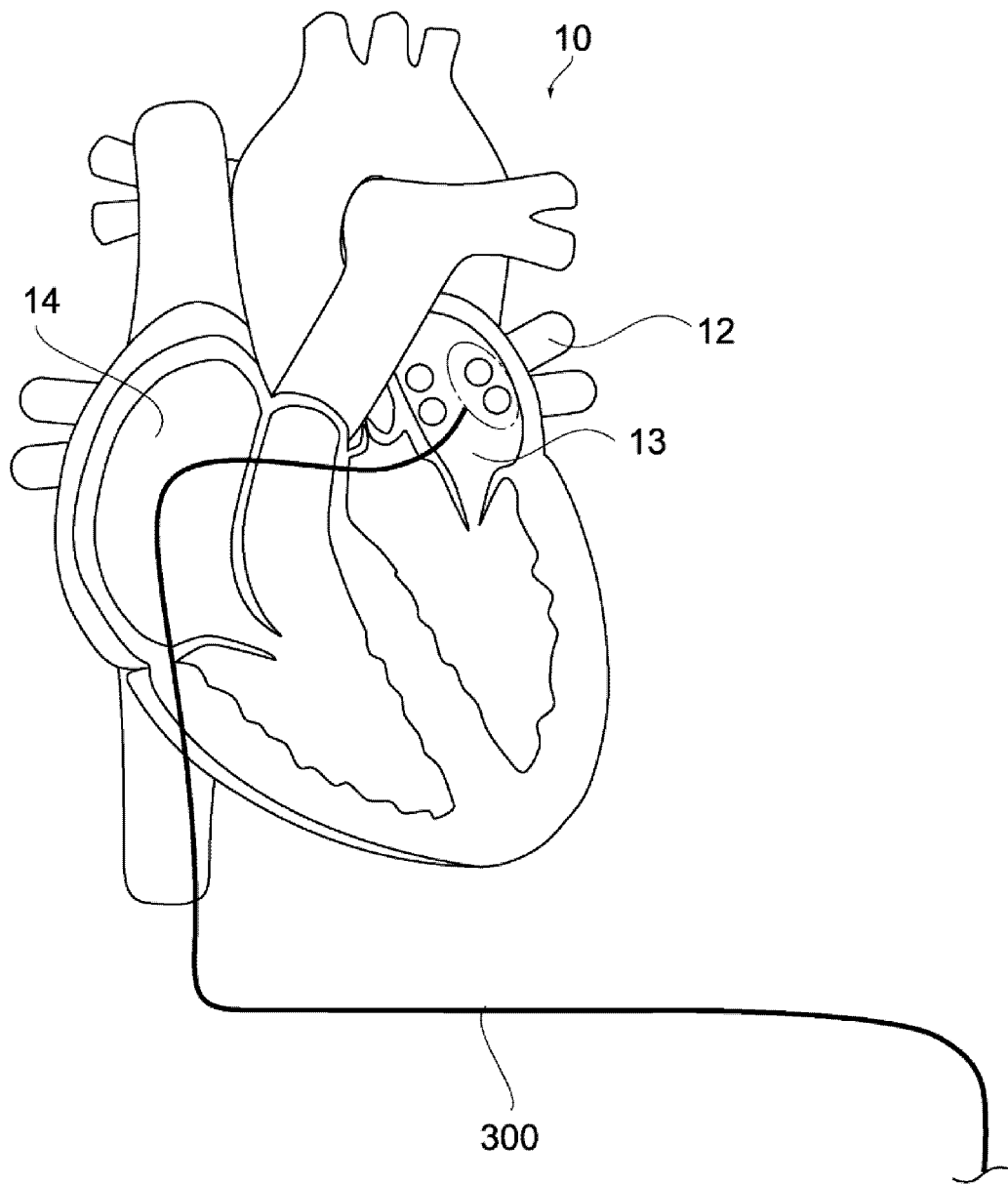


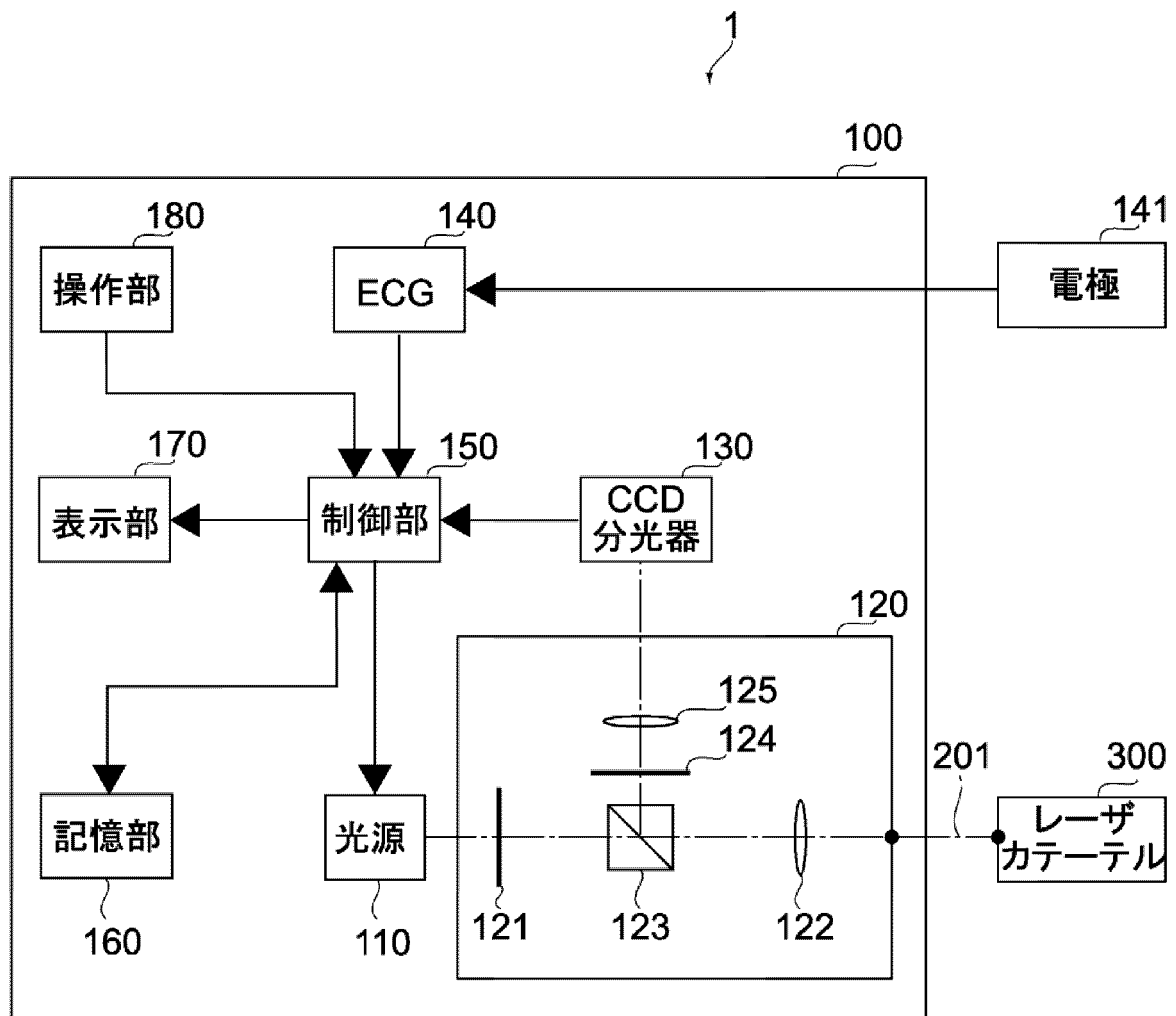
[図1]



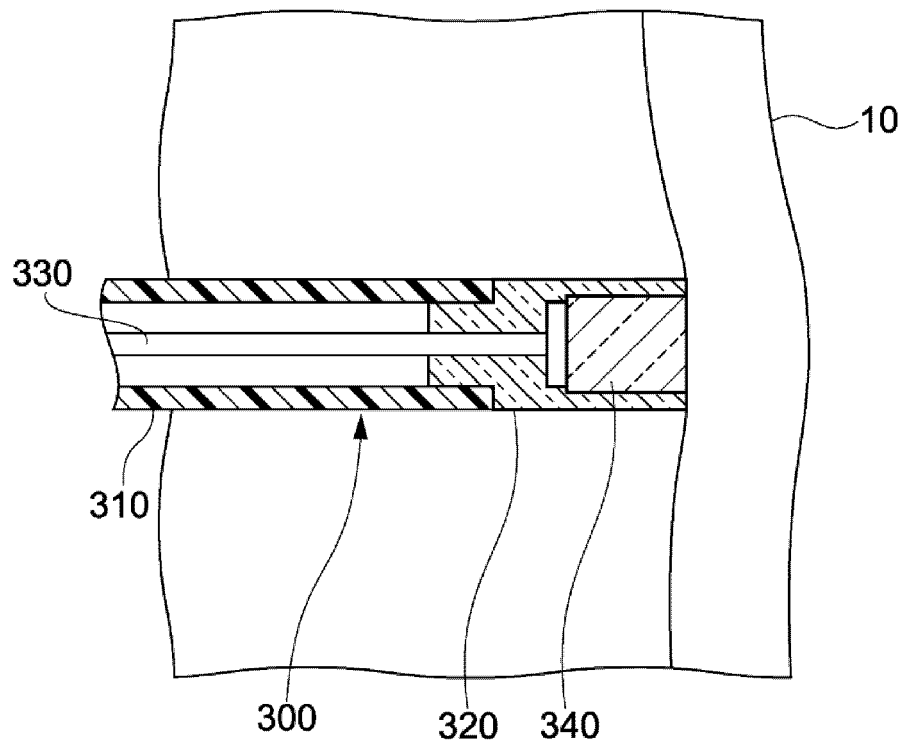
[図2]



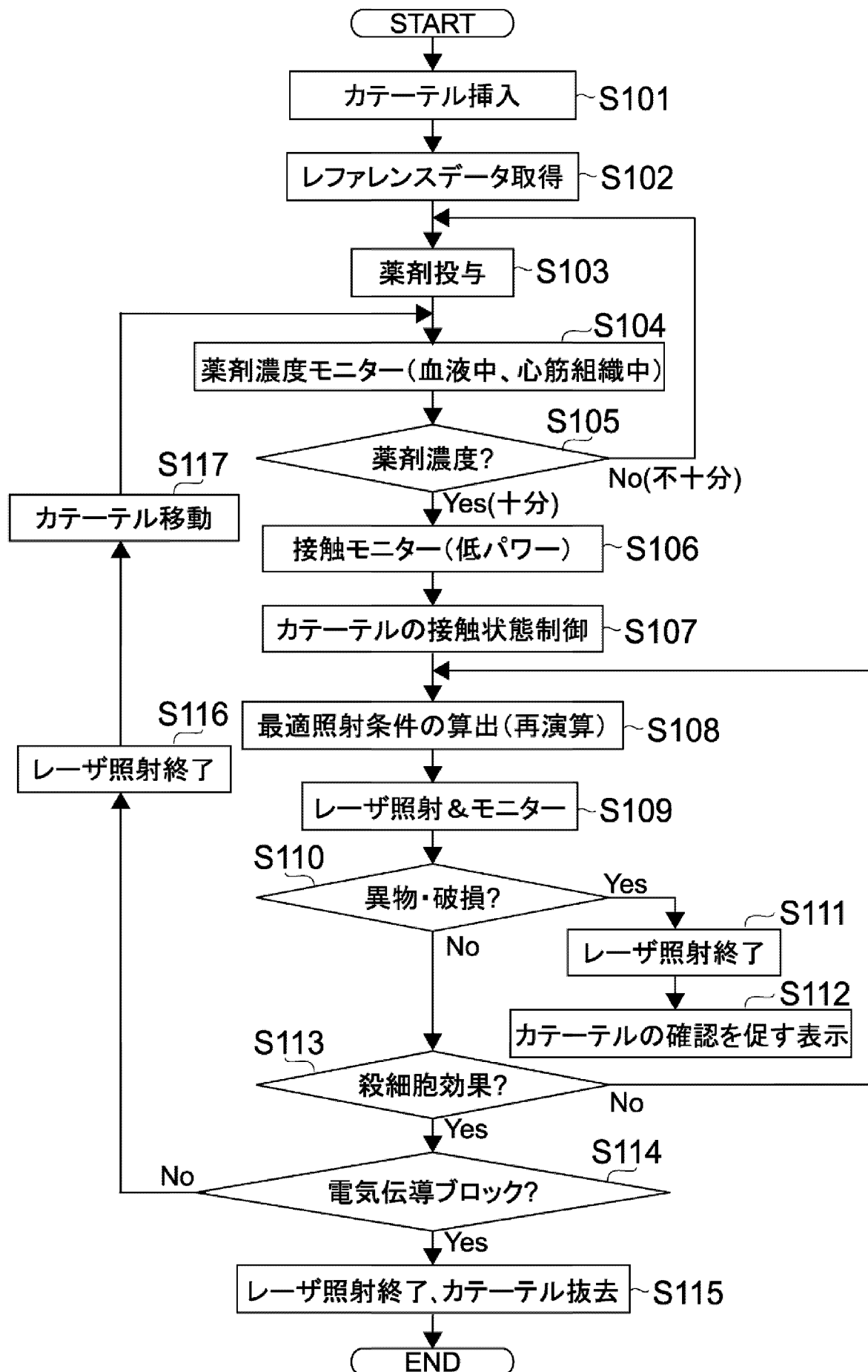
[図3]



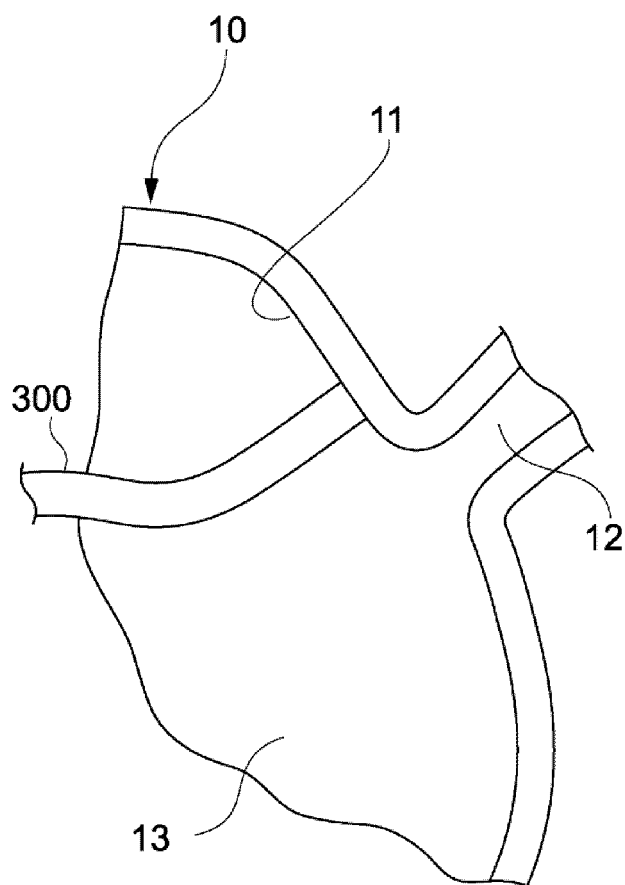
[図4]



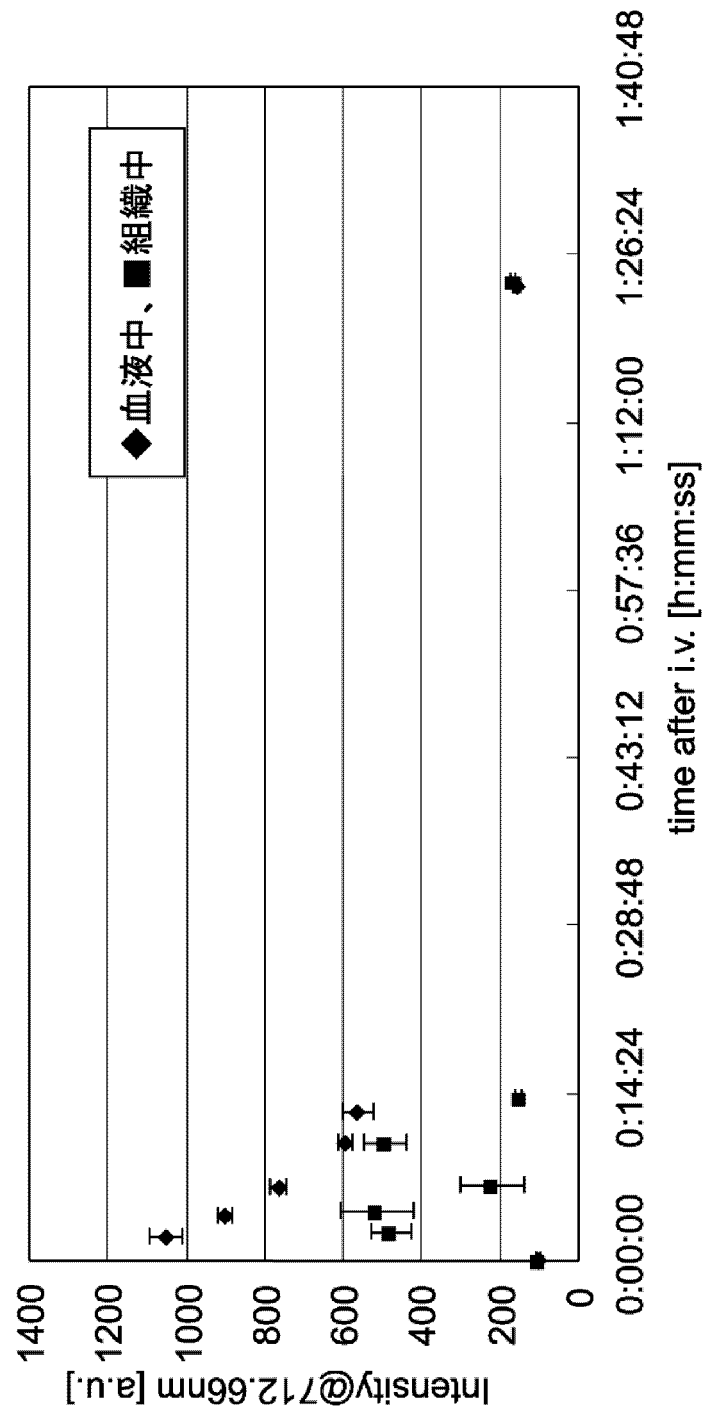
[図5]



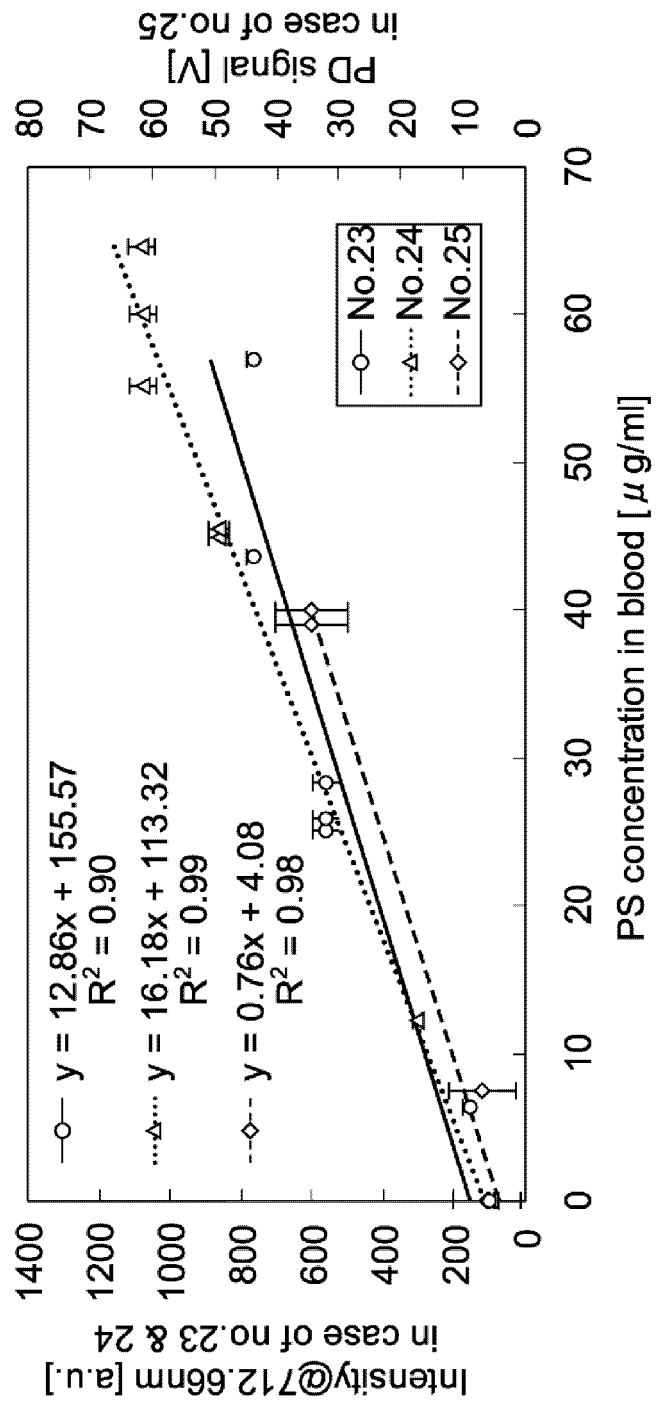
[図6]



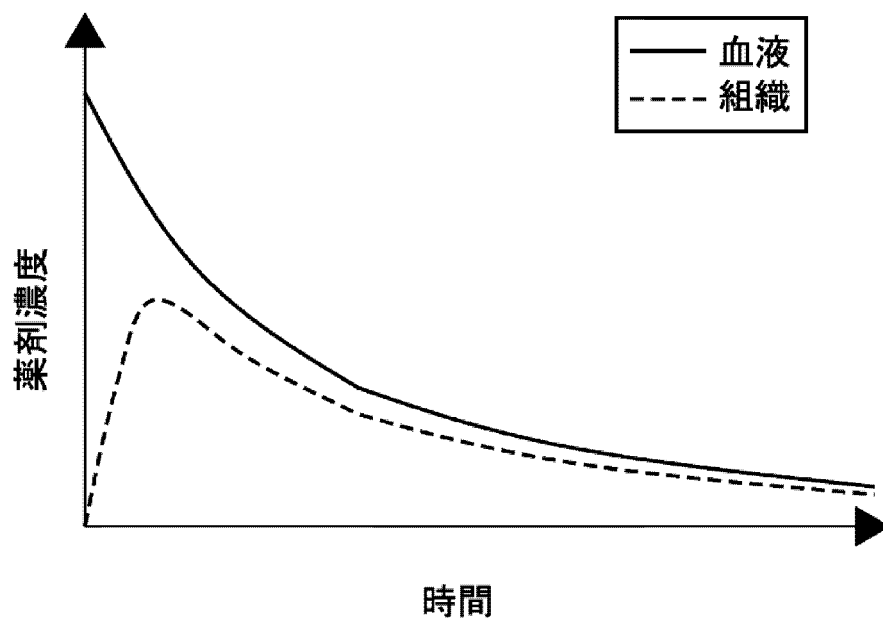
[図7]



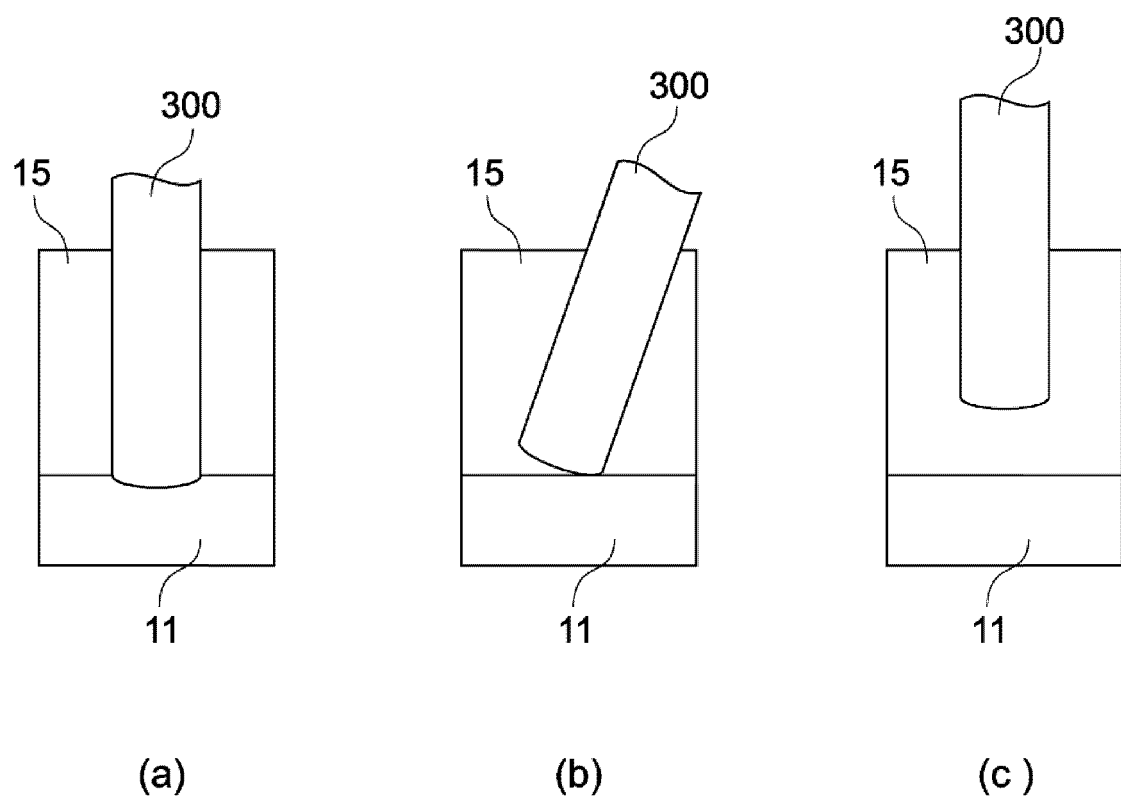
[図8]



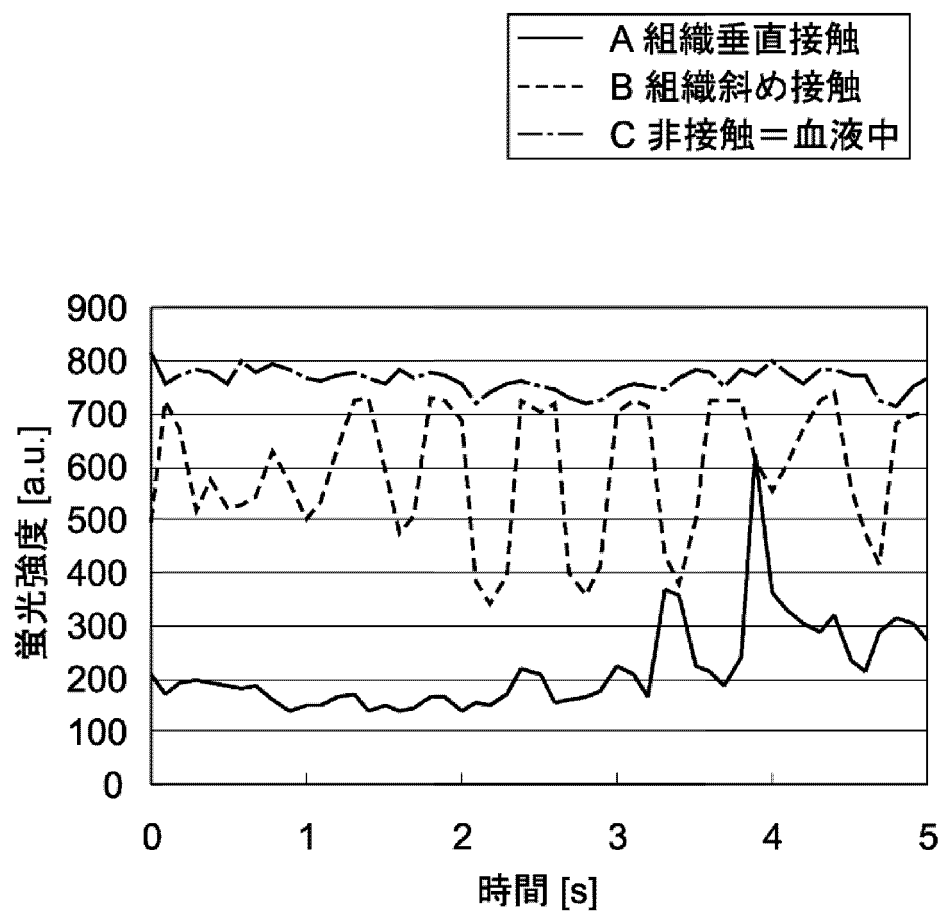
[図9]



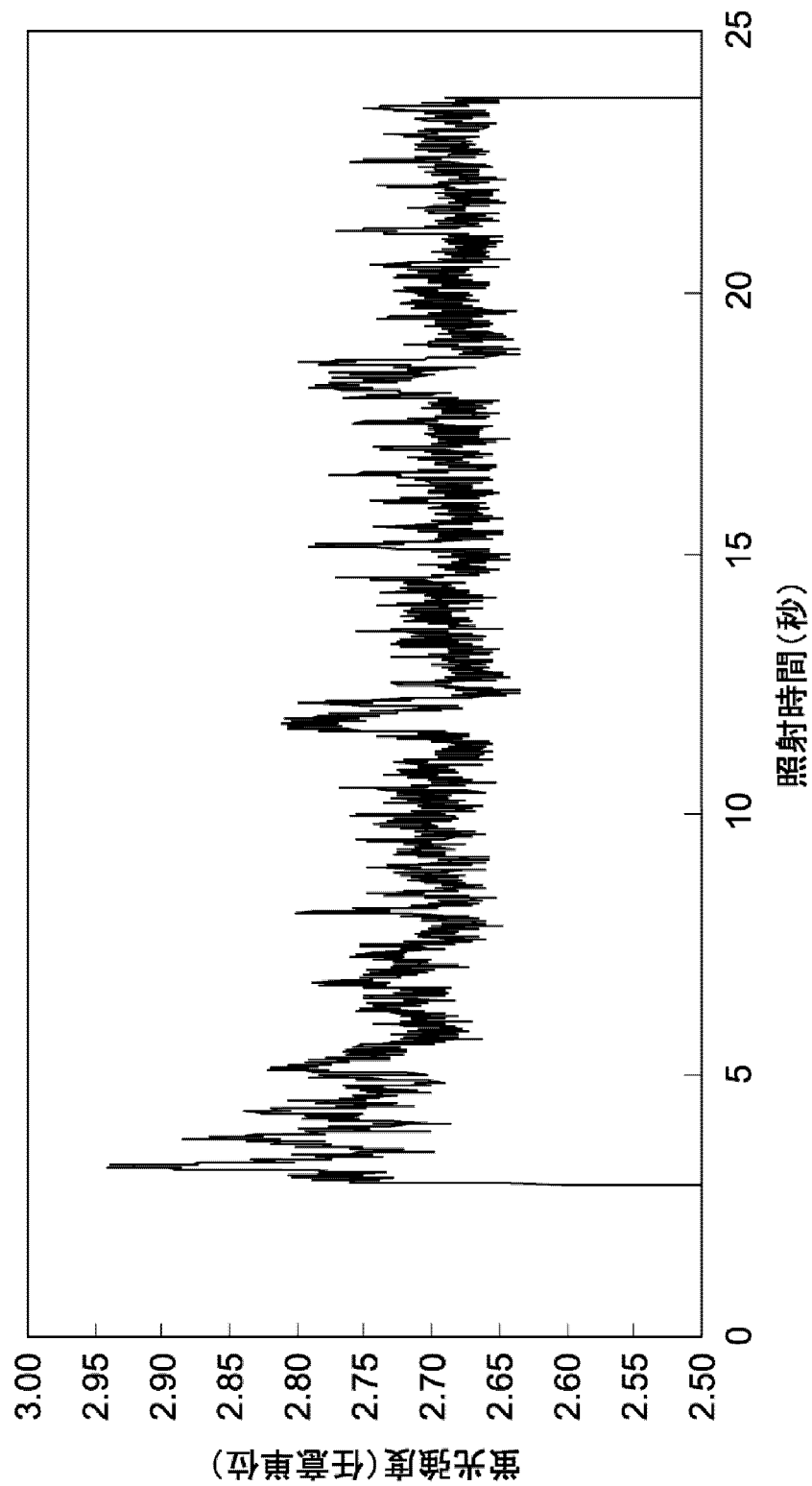
[図10]



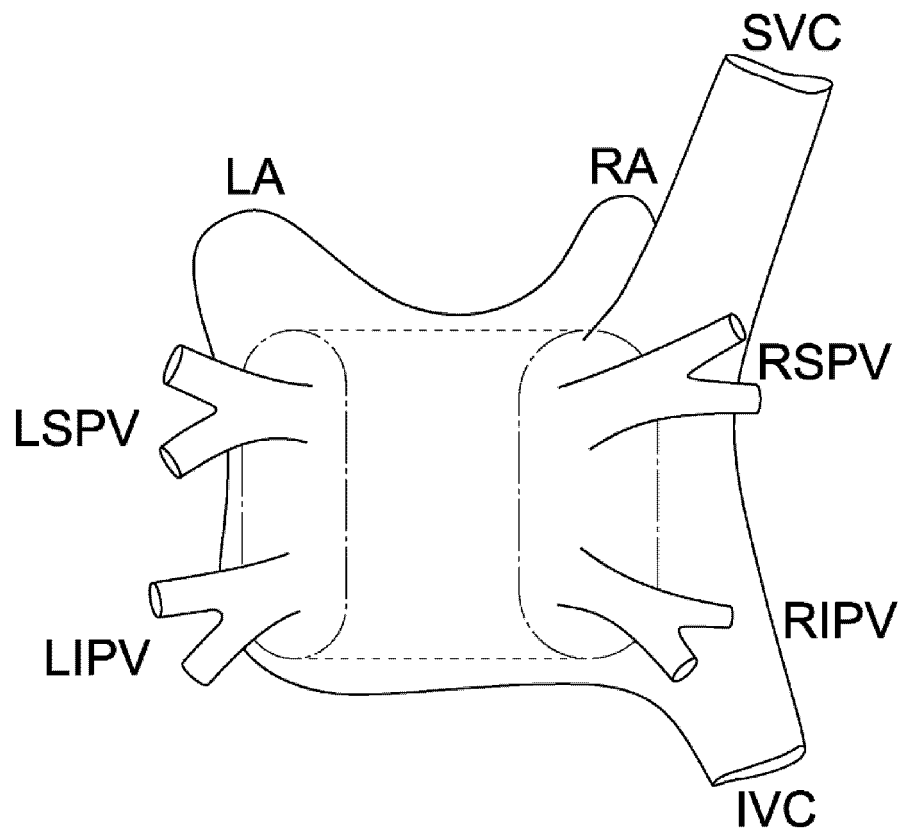
[図11]



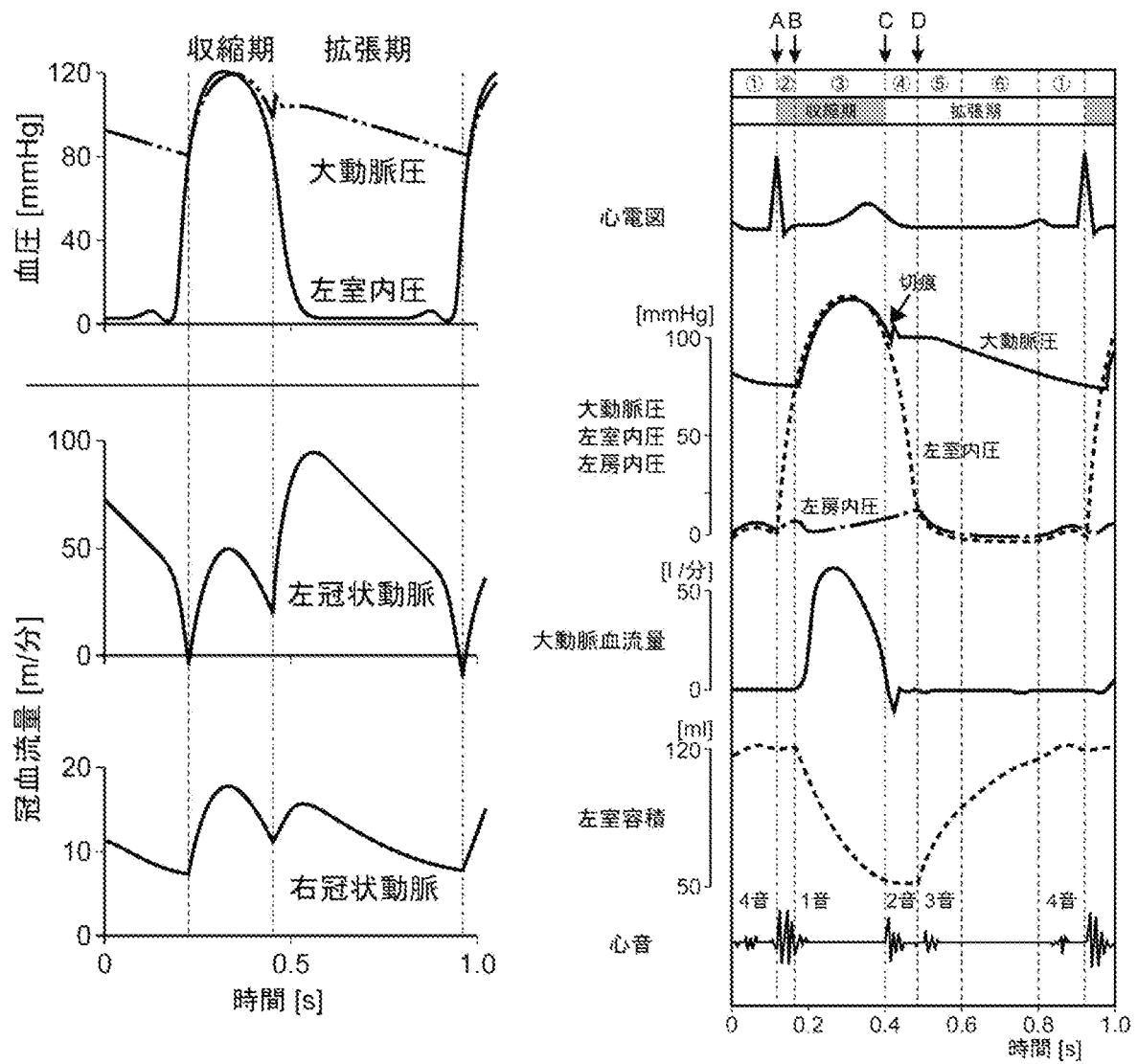
[図12]



[図13]

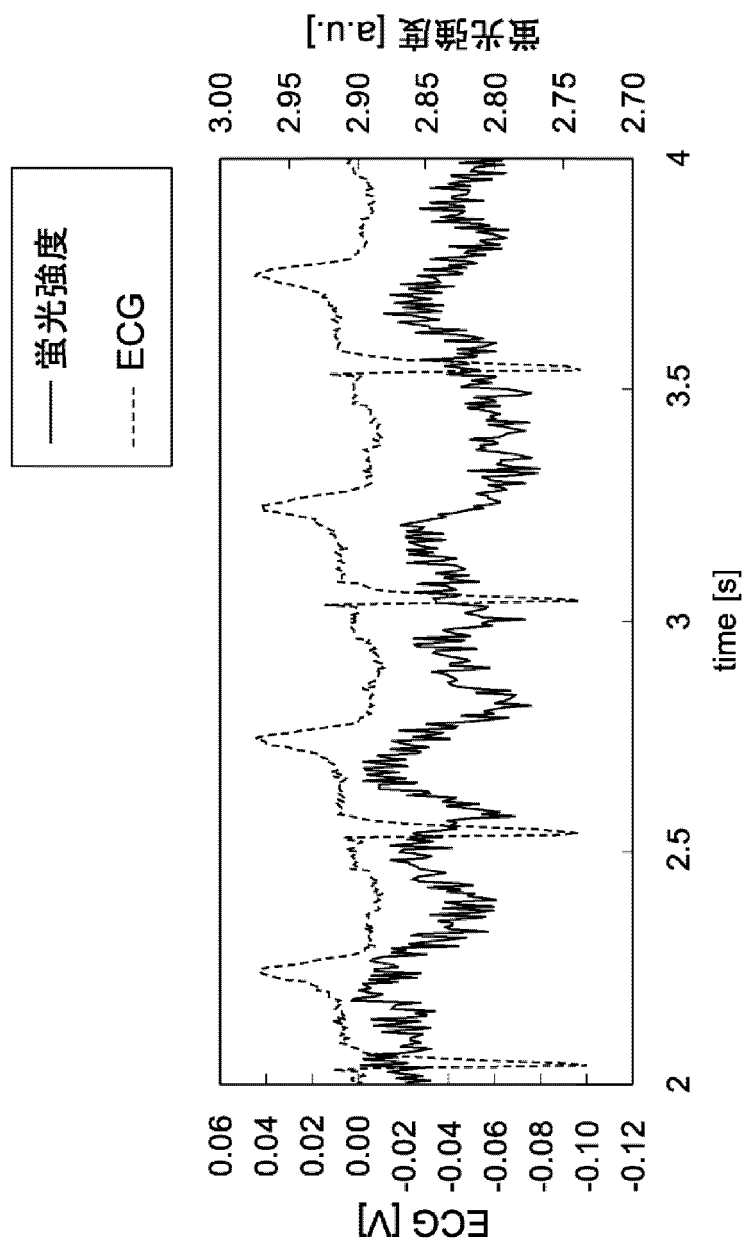


[図14]

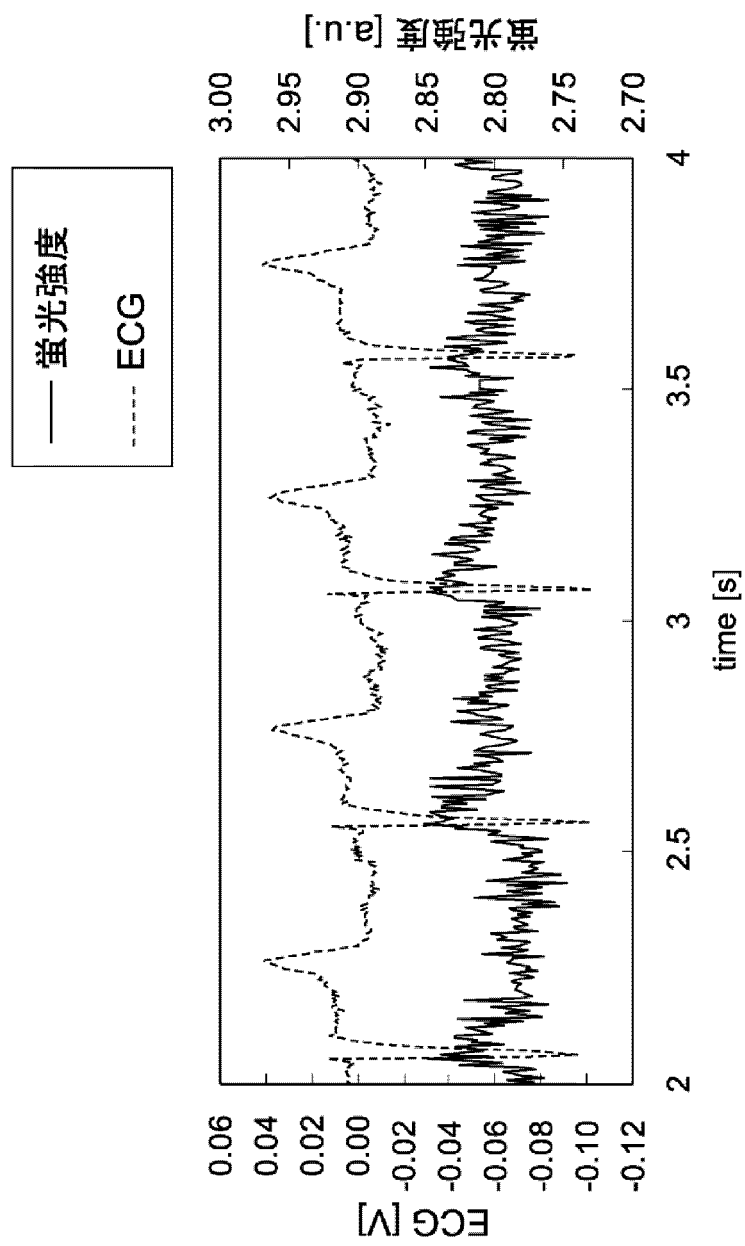


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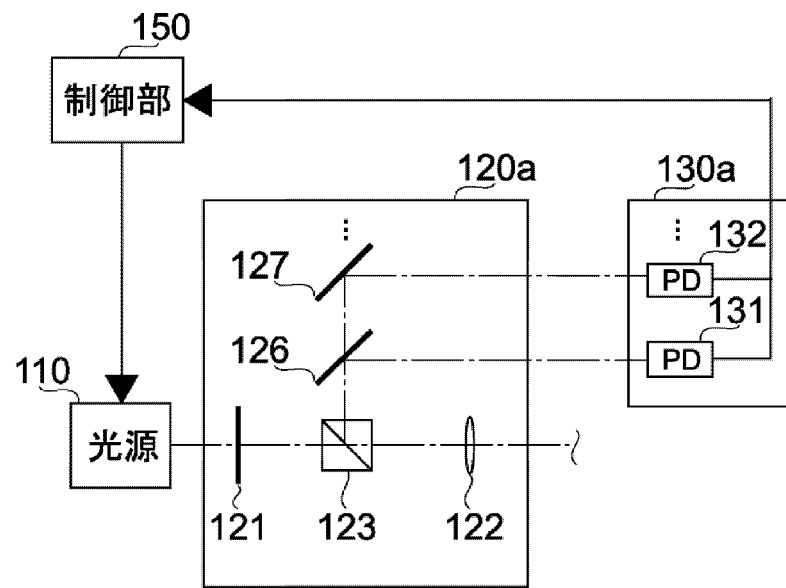
[図15]



[図16]

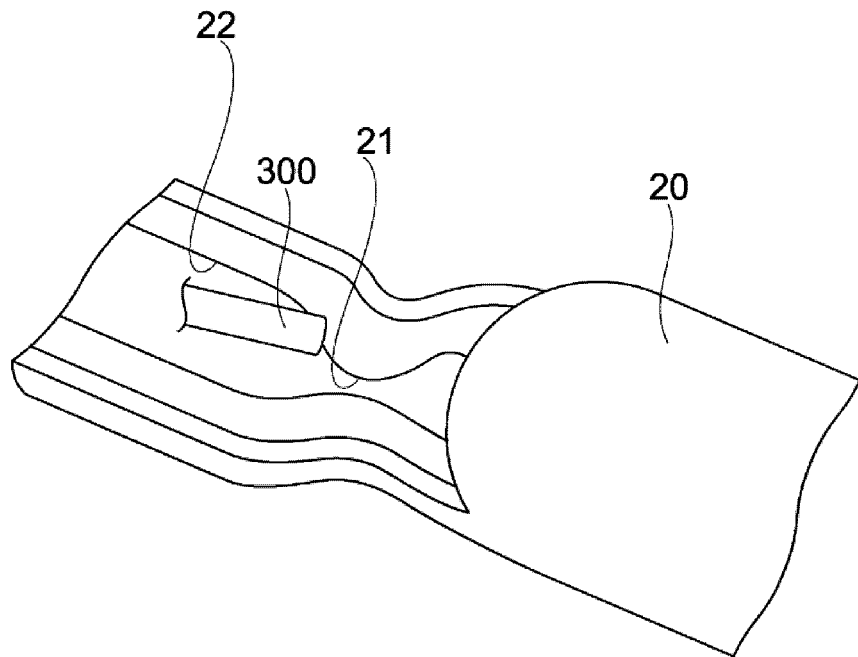


[図17]

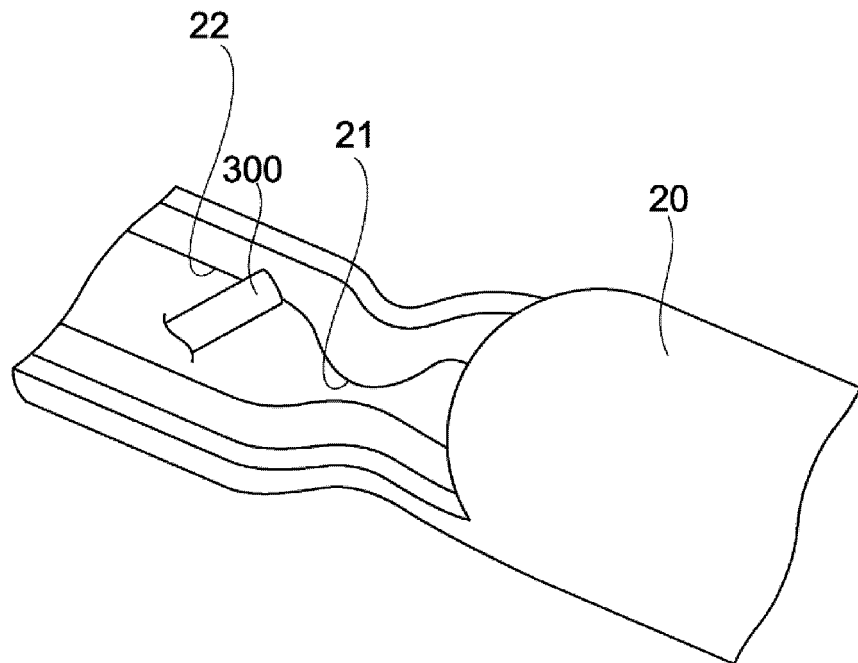


[図18]

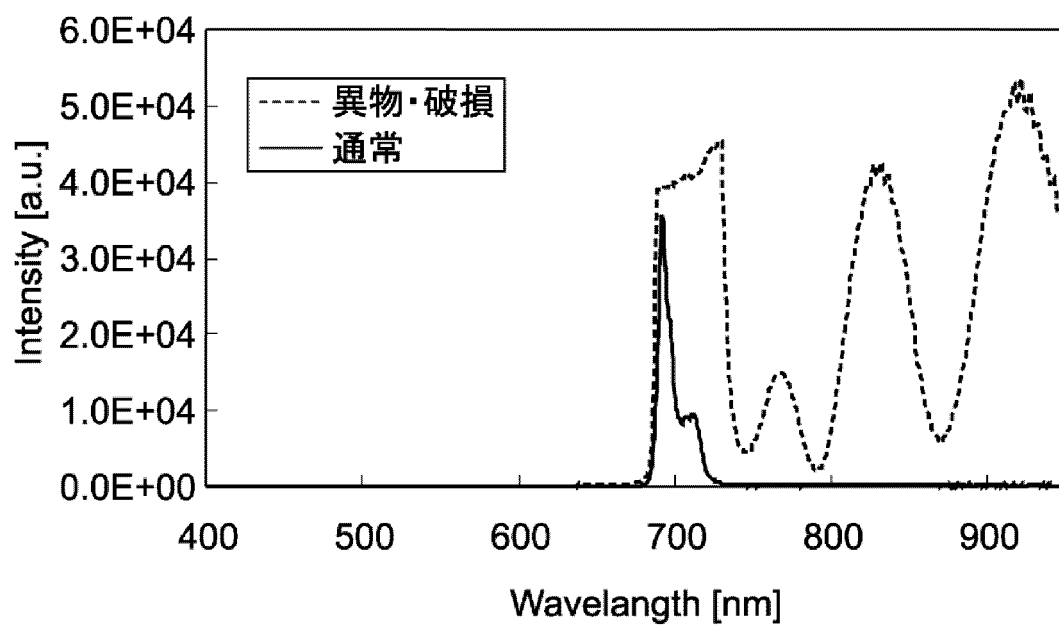
(a)



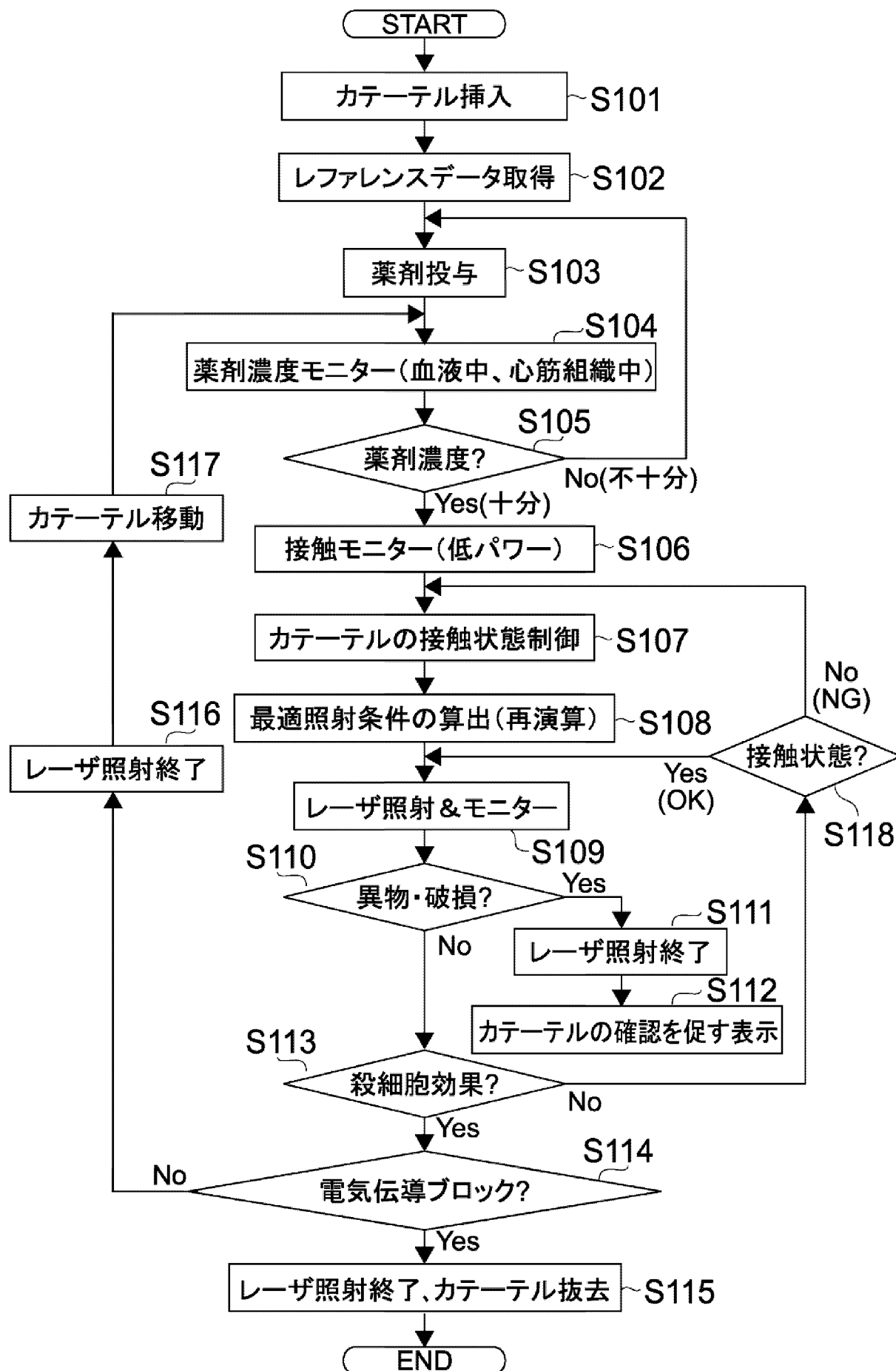
(b)



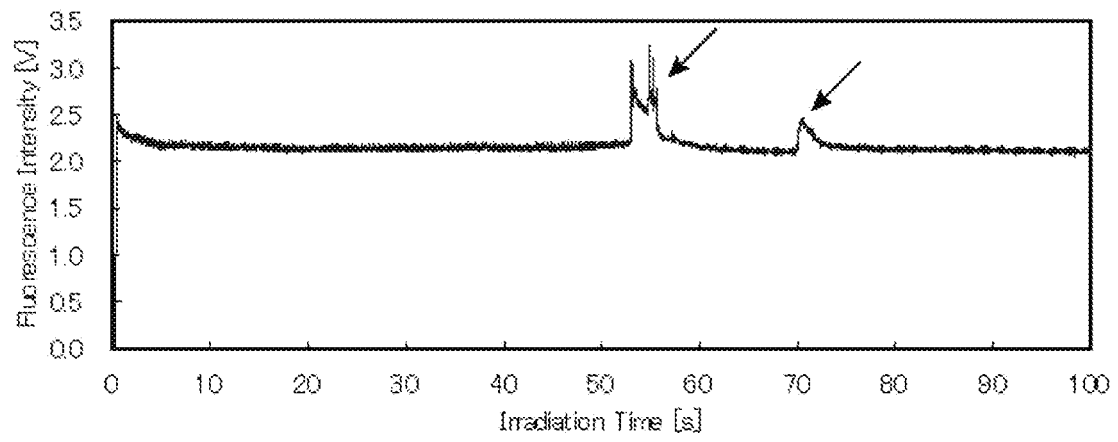
[図19]



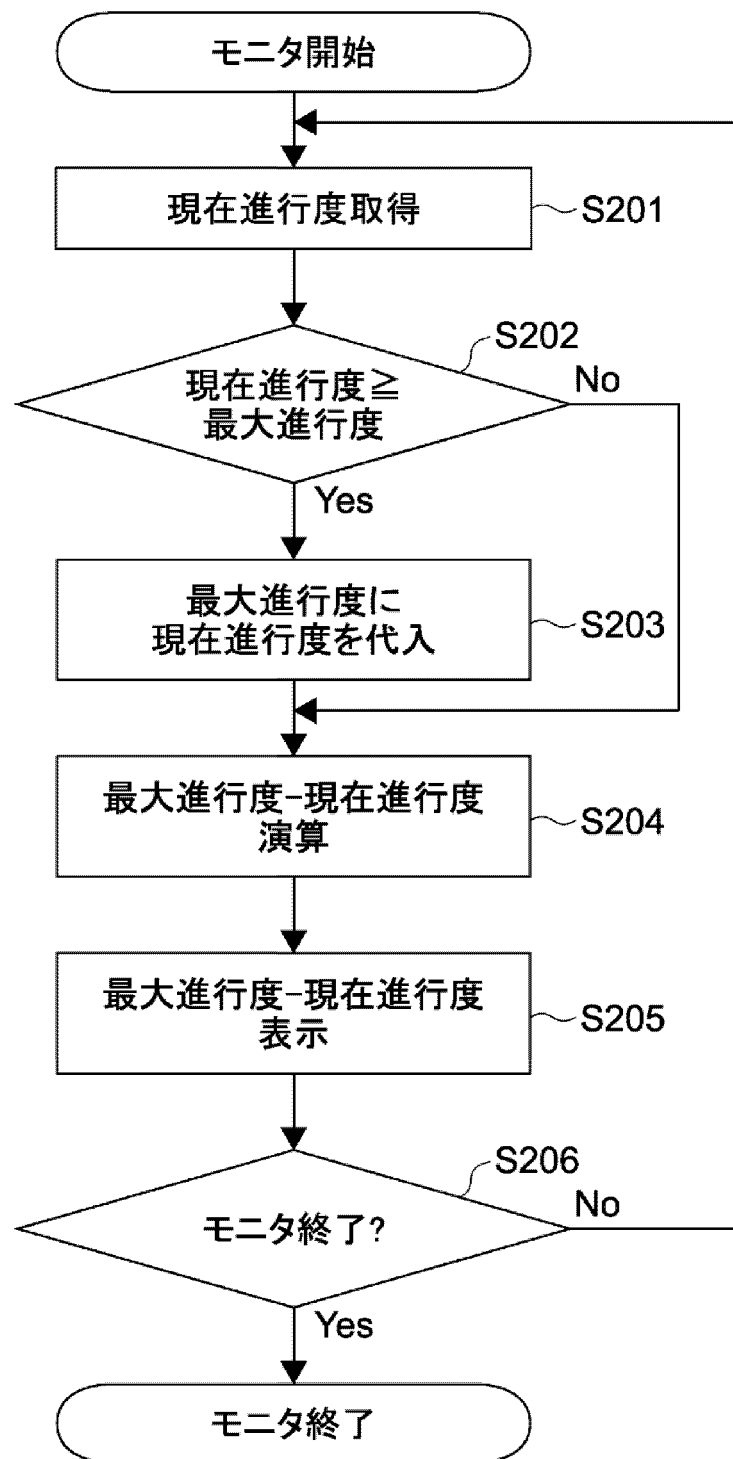
[図20]



[図21]

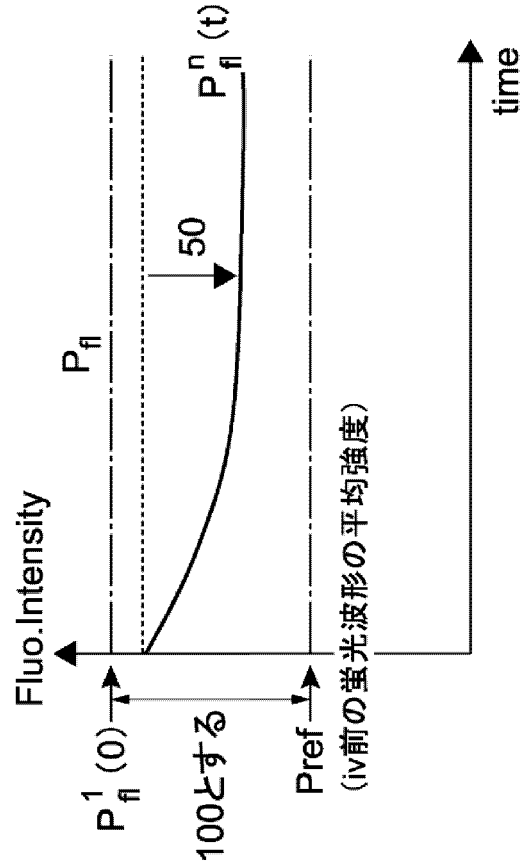


[図22]



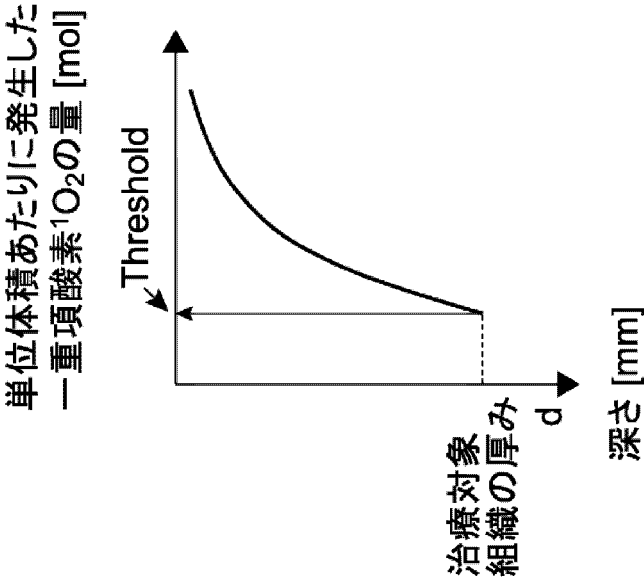
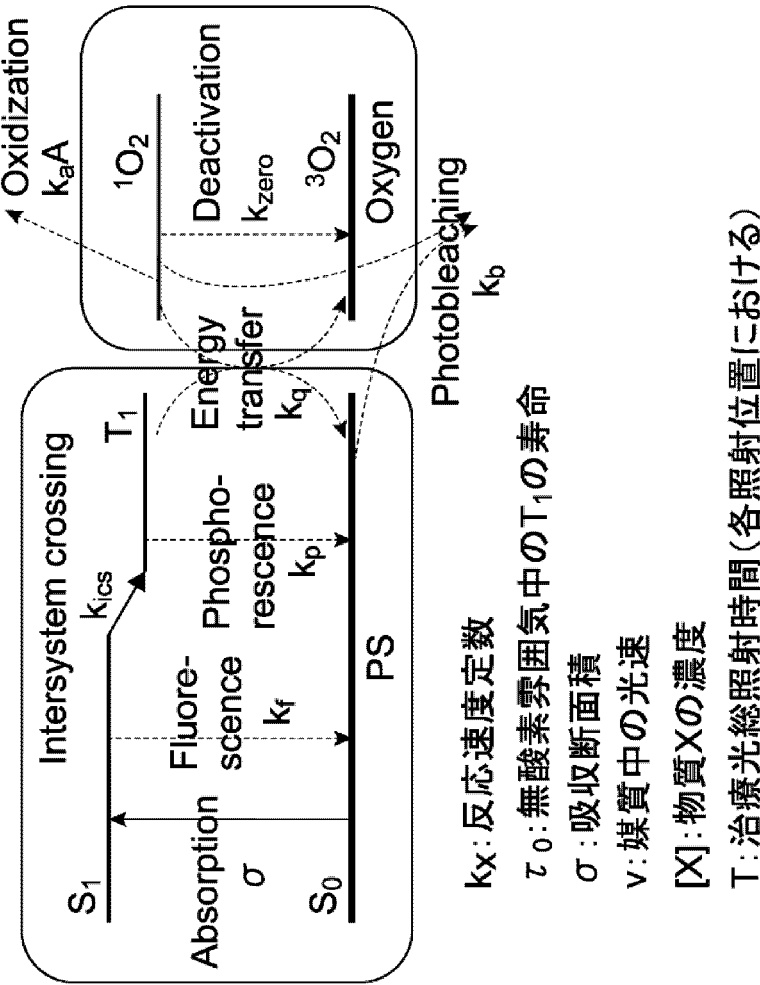
[図23]

$$P_{fl}^1(0) - Pref \overset{\text{def}}{=} 100 \times \frac{X \text{ mg/kg}}{10 \text{ mg/kg}} \times \frac{P \text{ W/cm}^2}{40 \text{ W/cm}^2} = A$$
$$\frac{-\left[P_{fl}^n(t) - P_{fl}^n(0)\right]}{P_{fl}^1(0) - Pref} \times A = \text{PDT進行度}$$



nは照射回数を示す。
例： n=1...i.v.15minの本照射 (High Power)
 n=2...i.v.16minの本照射 (High Power)
 n=3...i.v.16min30sの本照射 (High Power)
 .
 .
 .

[図24]



[図25]

$$\int_0^T [^1\text{O}_2](t) dt = \int_0^T \left([S_0]_t(t) \times v \rho \sigma t \times \frac{k_{ics}}{k_f + k_{ics}} \times \frac{k_q[^3\text{O}_2]}{\frac{1}{\tau_0} + k_q[^3\text{O}_2]} \right) dt$$

$$\frac{d[S_0]_t(t)}{dt} = -k_b [S_0]_t(t) [^1\text{O}_2](t)$$

$$\rho = I \times G(d, t, t')$$

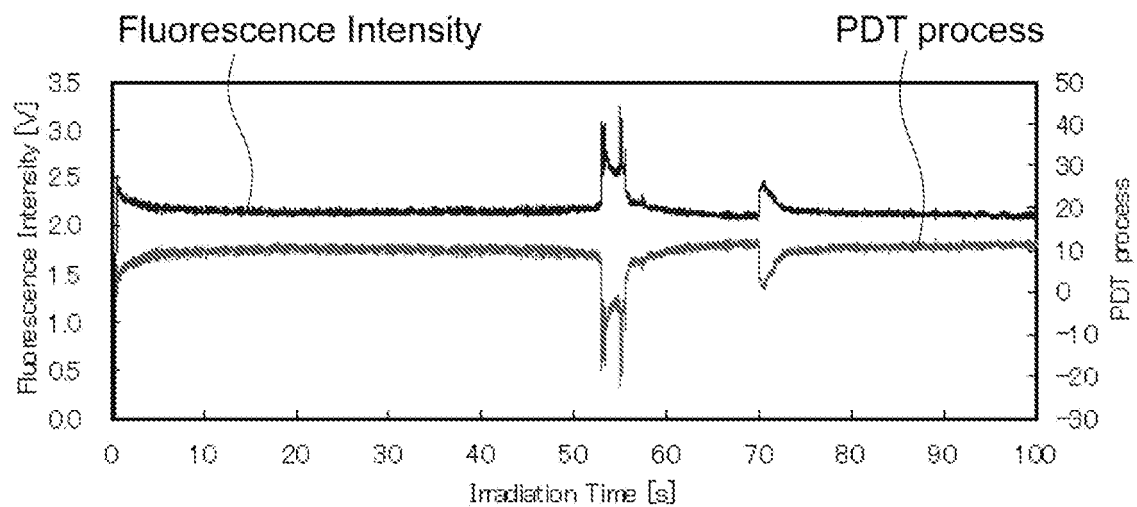
$$[S_0]_t(t) = F(\text{PS dose}, t, t')$$

t: 各位置における照射時間

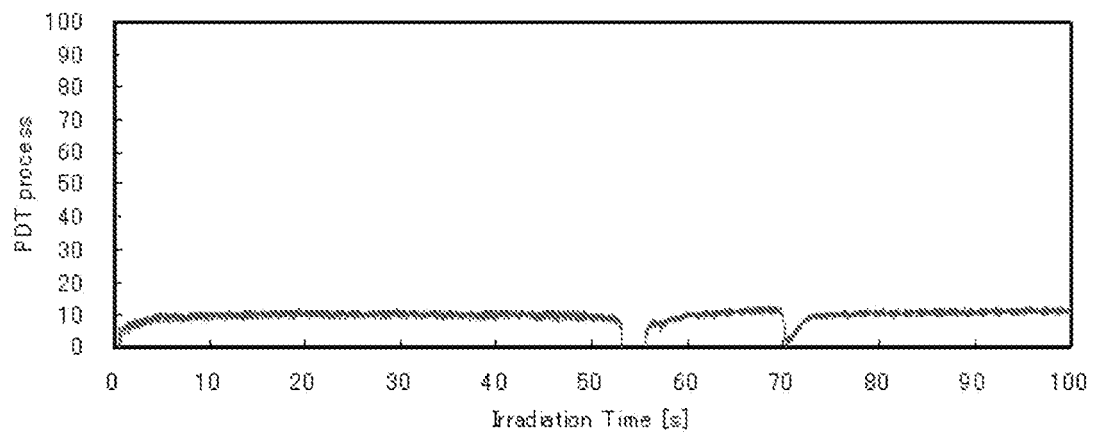
t': 薬剤投与(iv)からの経過時間

ρ : 深さdにおける光密度

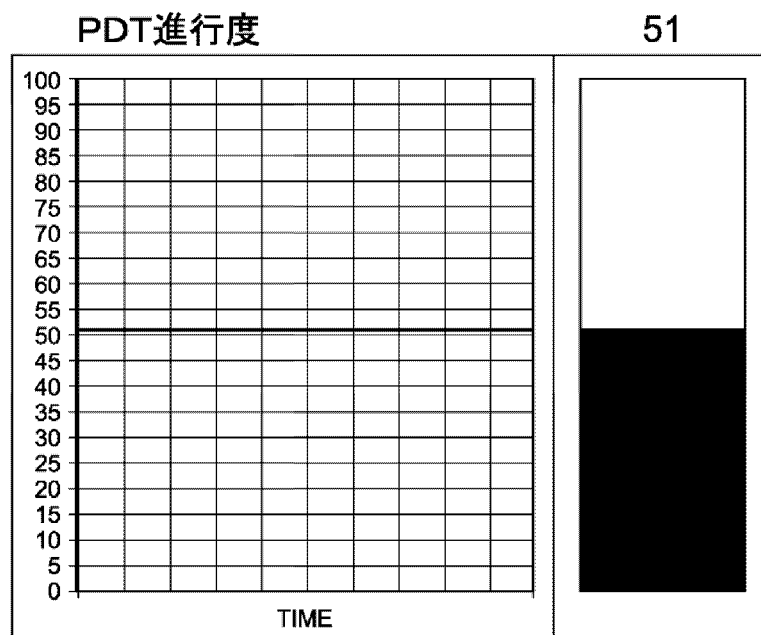
[図26]



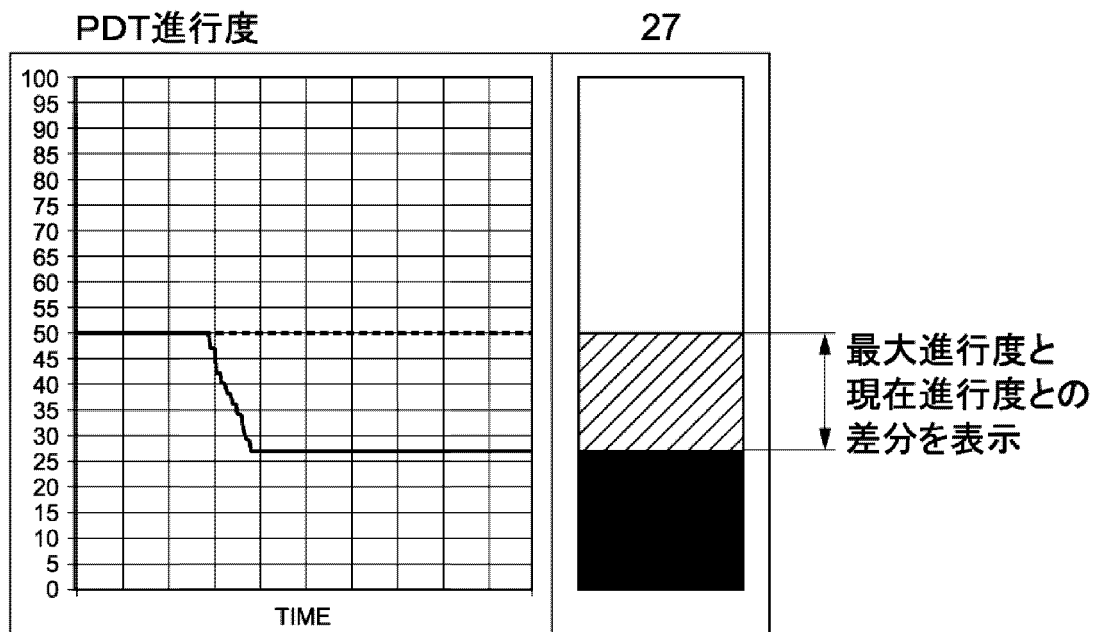
[図27]



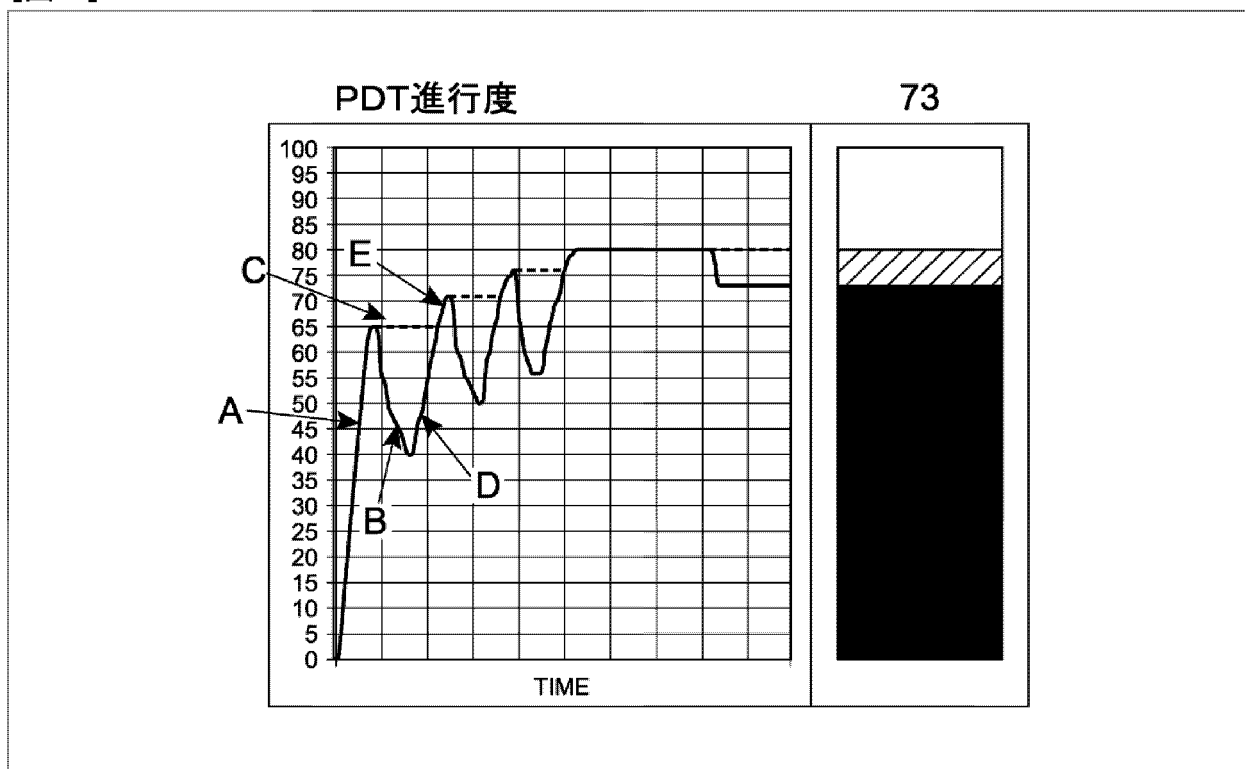
[図28]



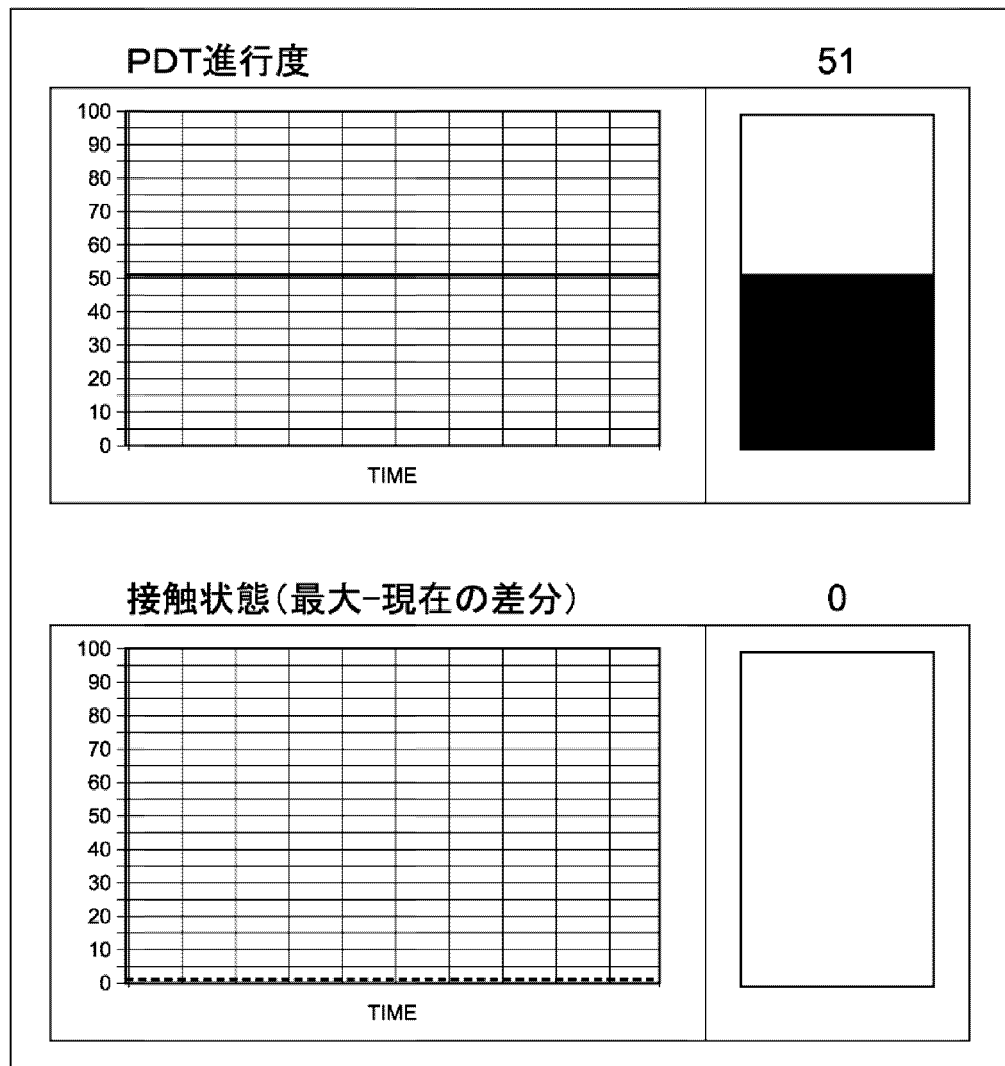
[図29]



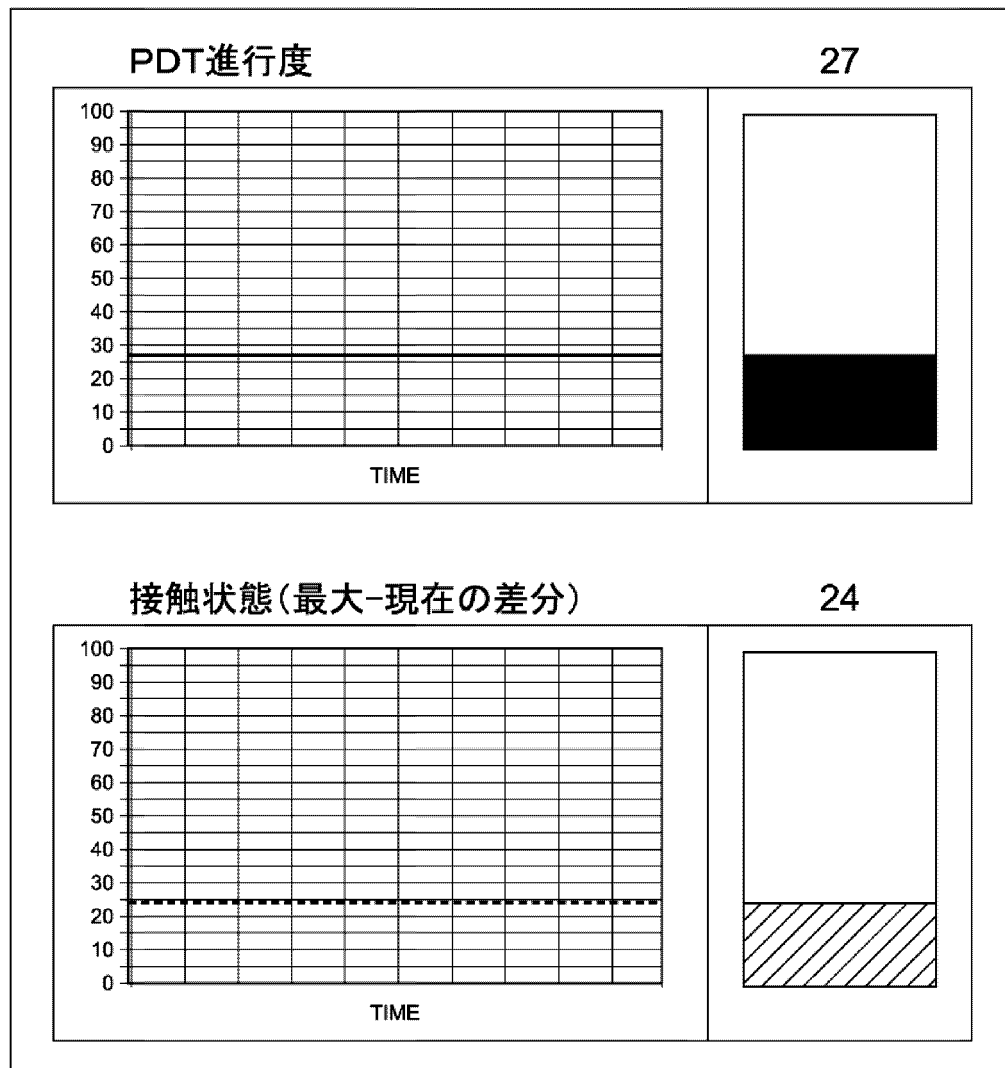
[図30]



[図31]



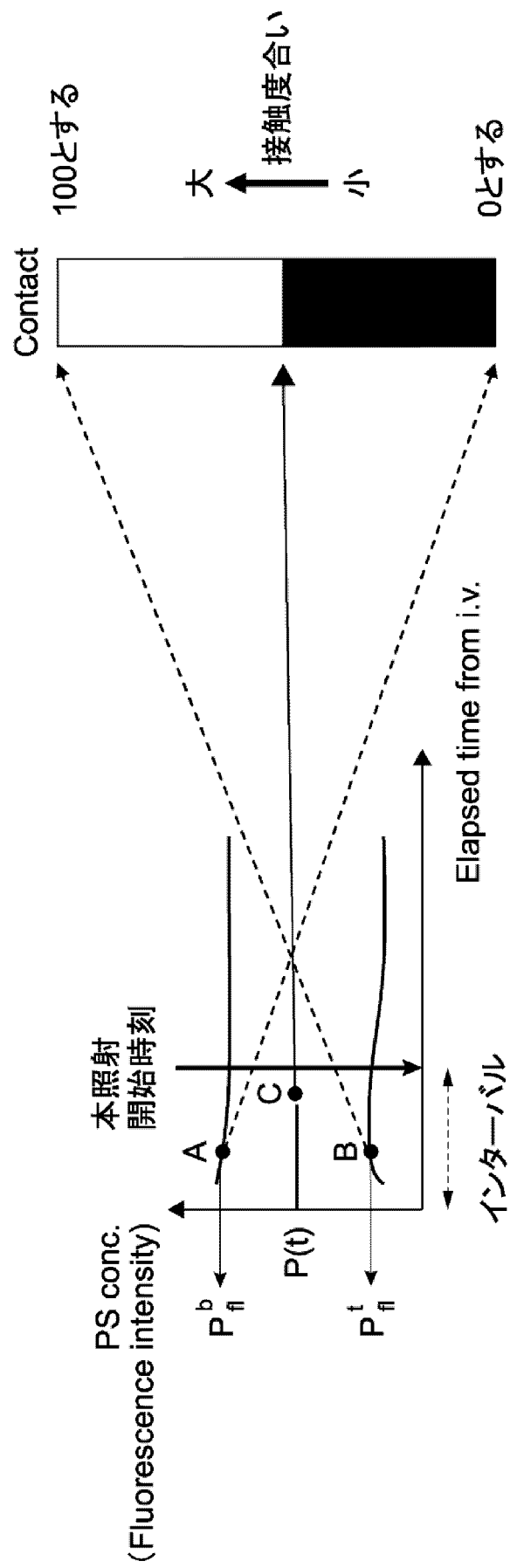
[図32]



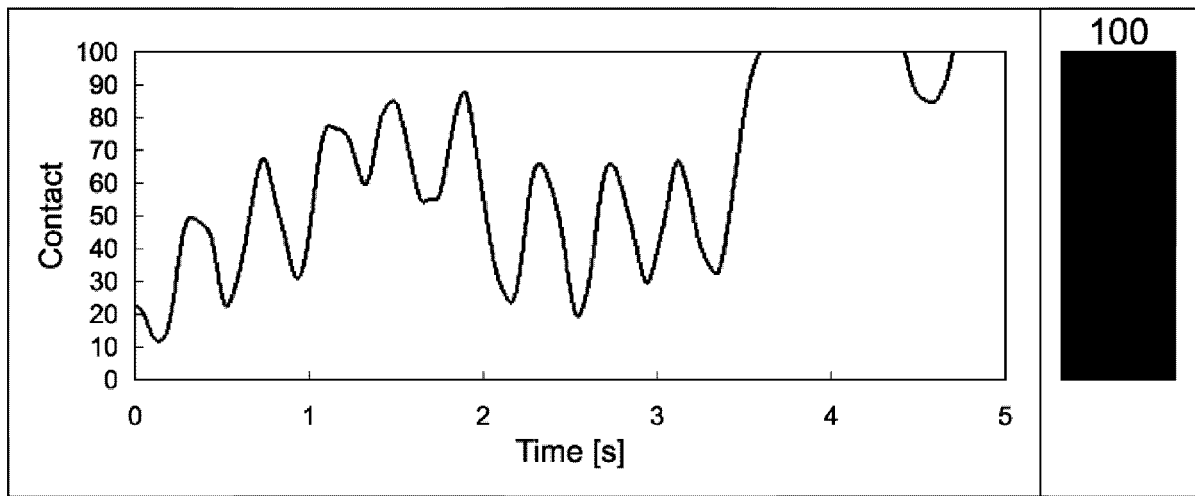
[図33]

$$\frac{P_{fl}^b - P(t)}{P_{fl}^b - P_{fl}^t} \times 100 = \text{接触度}$$

[図34]



[図35]



[図36]

