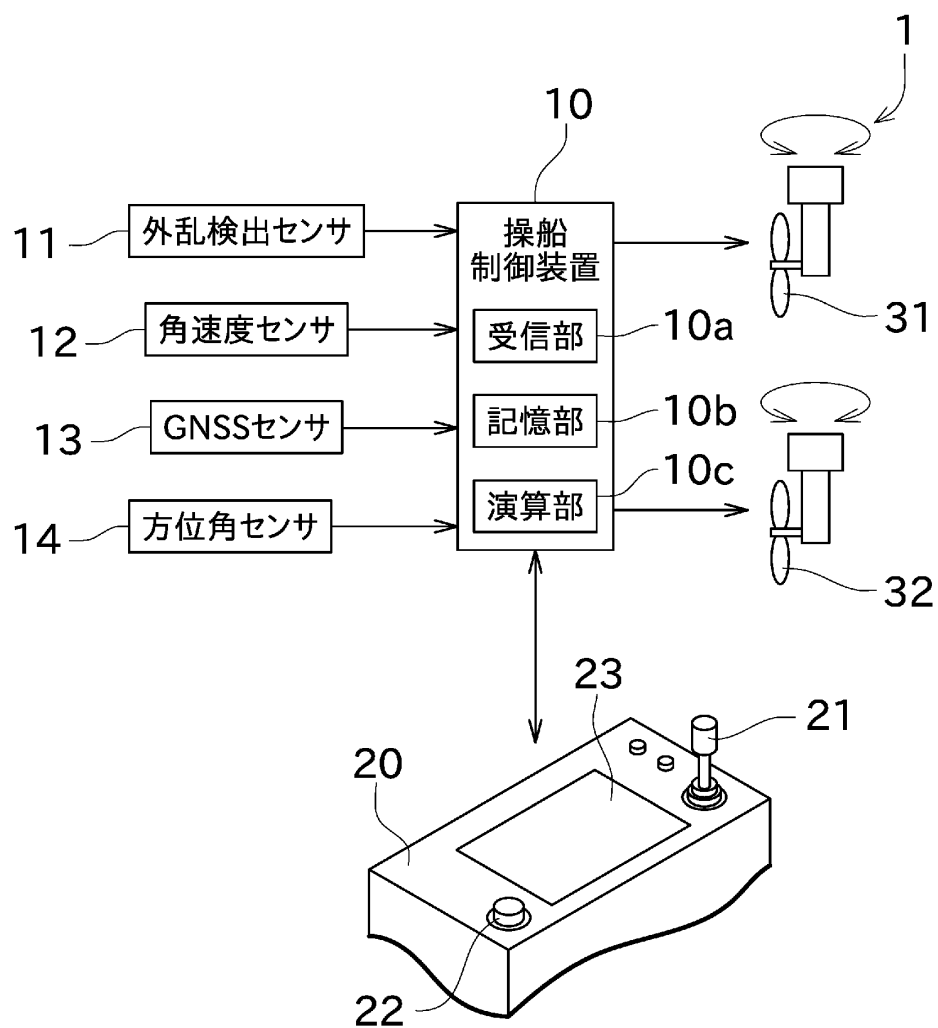
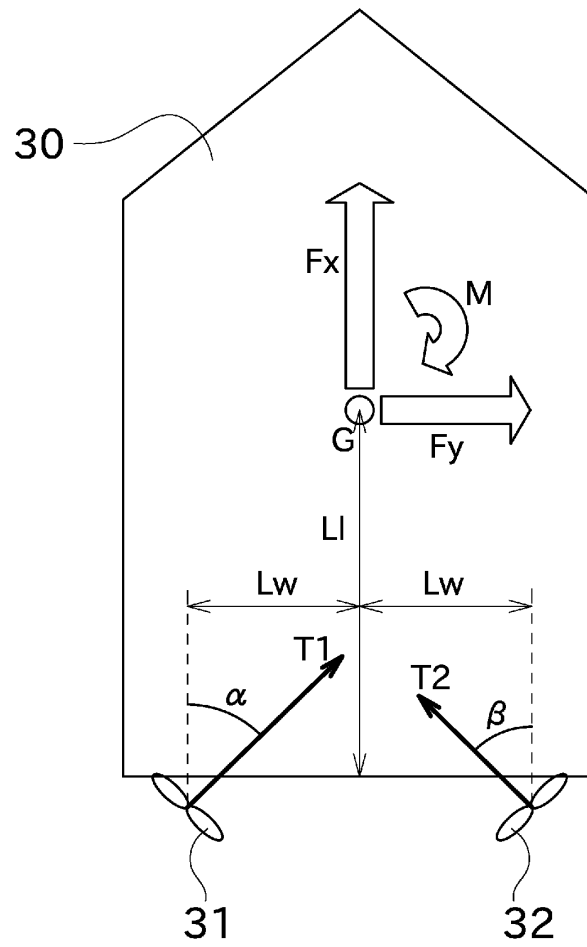


[図1]



[図2]

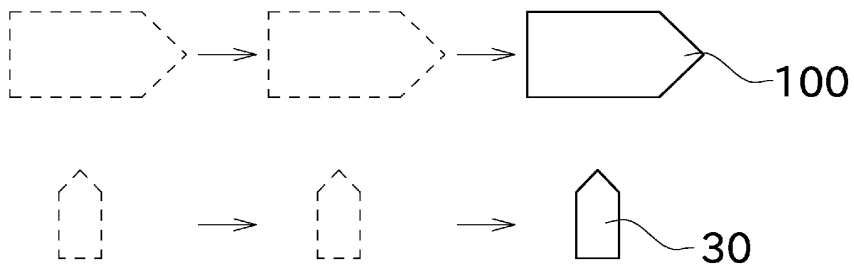


$$F_x = T_1 \cos \alpha + T_2 \cos \beta \quad \dots (1)$$

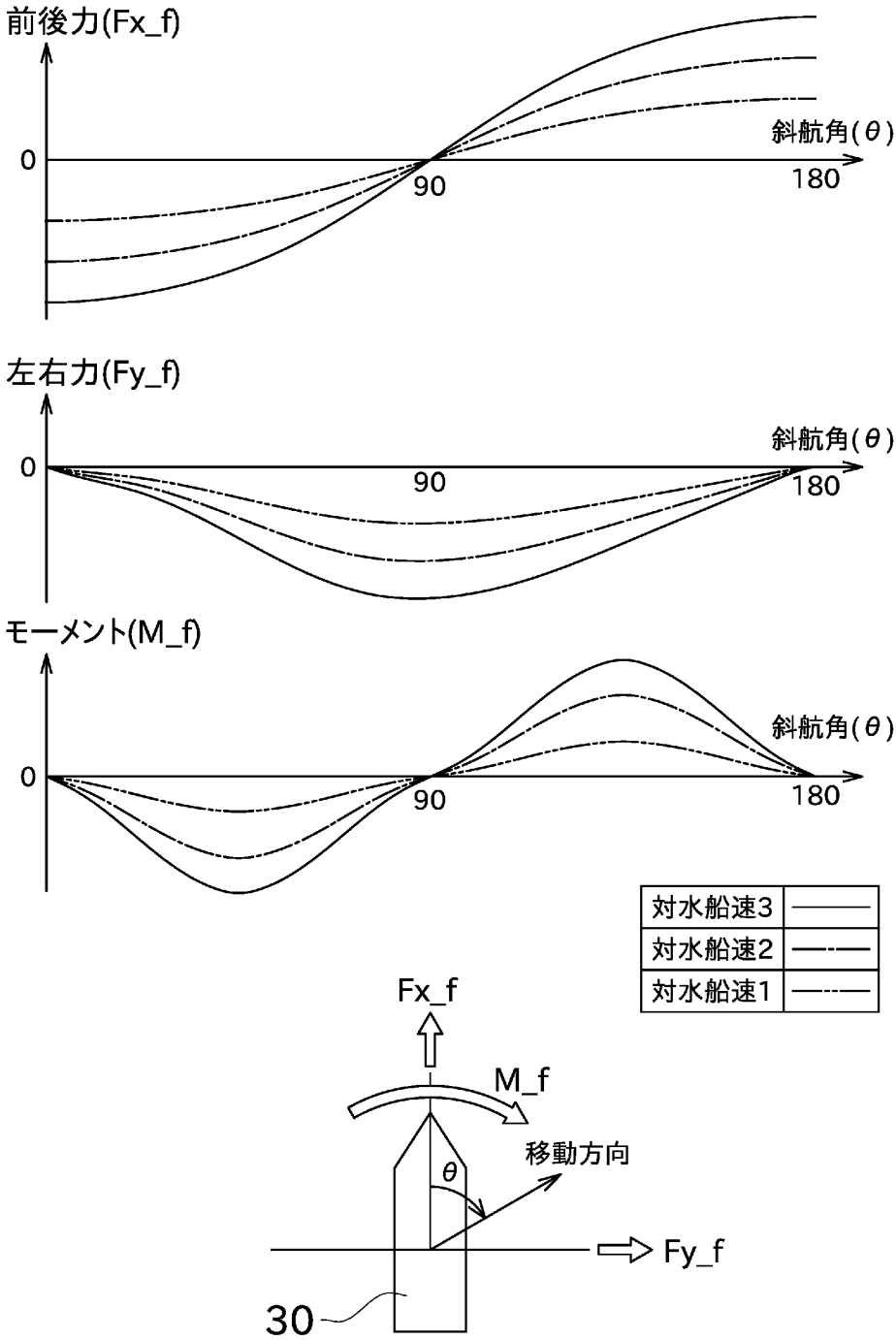
$$F_y = T_1 \sin \alpha - T_2 \sin \beta \quad \dots (2)$$

$$M = -L_I \cdot T_1 \sin \alpha + L_w \cdot T_1 \cos \alpha + L_I \cdot T_2 \sin \beta - L_w \cdot T_2 \cos \beta \quad \dots (3)$$

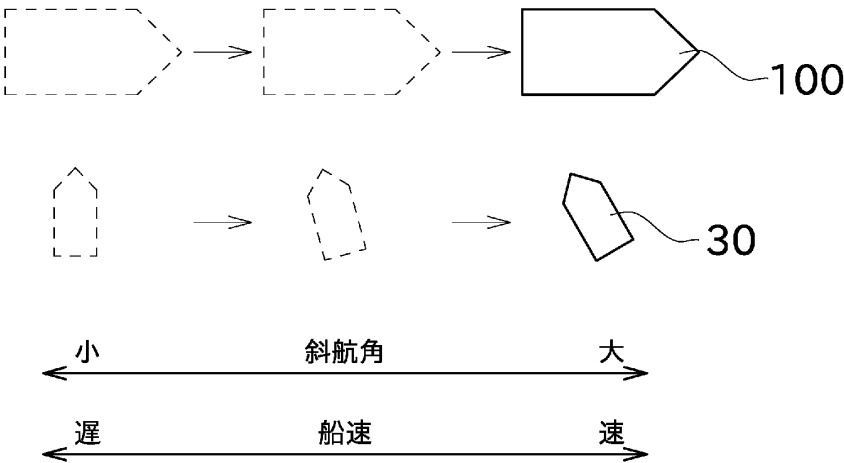
[図3]



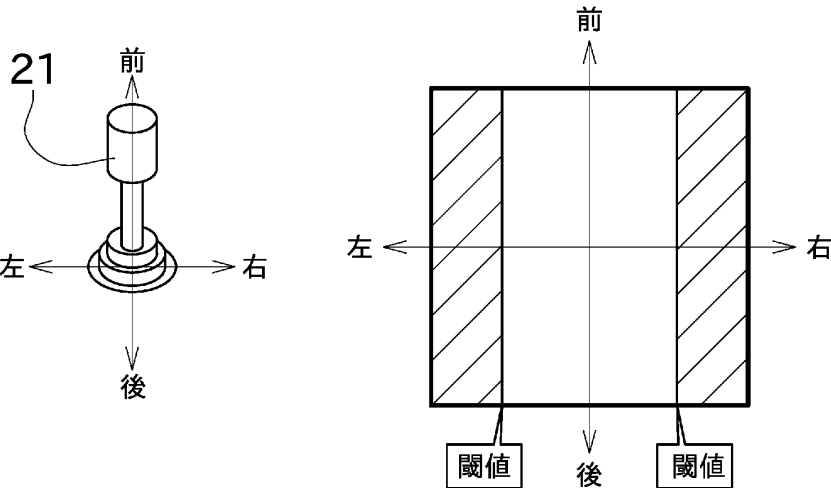
[図4]



[図5]

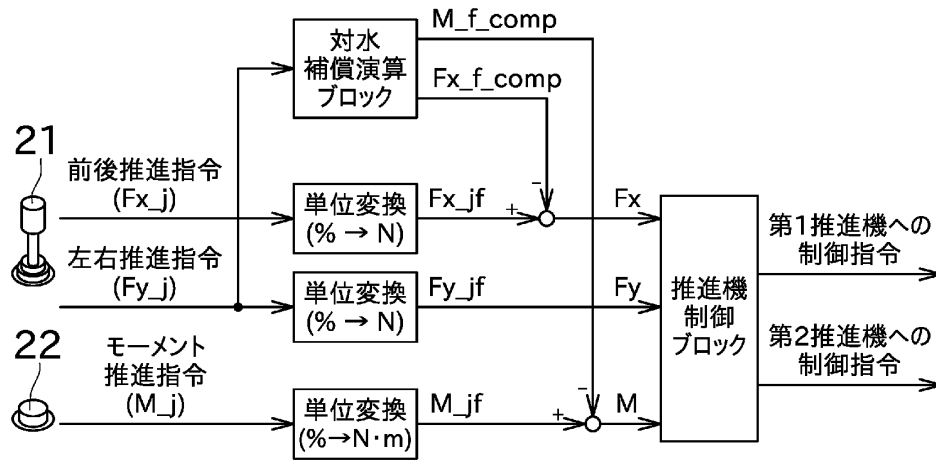


[図6]



|                    |  |
|--------------------|--|
| ジョイスティック<br>操作可能範囲 |  |
| 高速横移動<br>モード指示範囲   |  |

[図7]

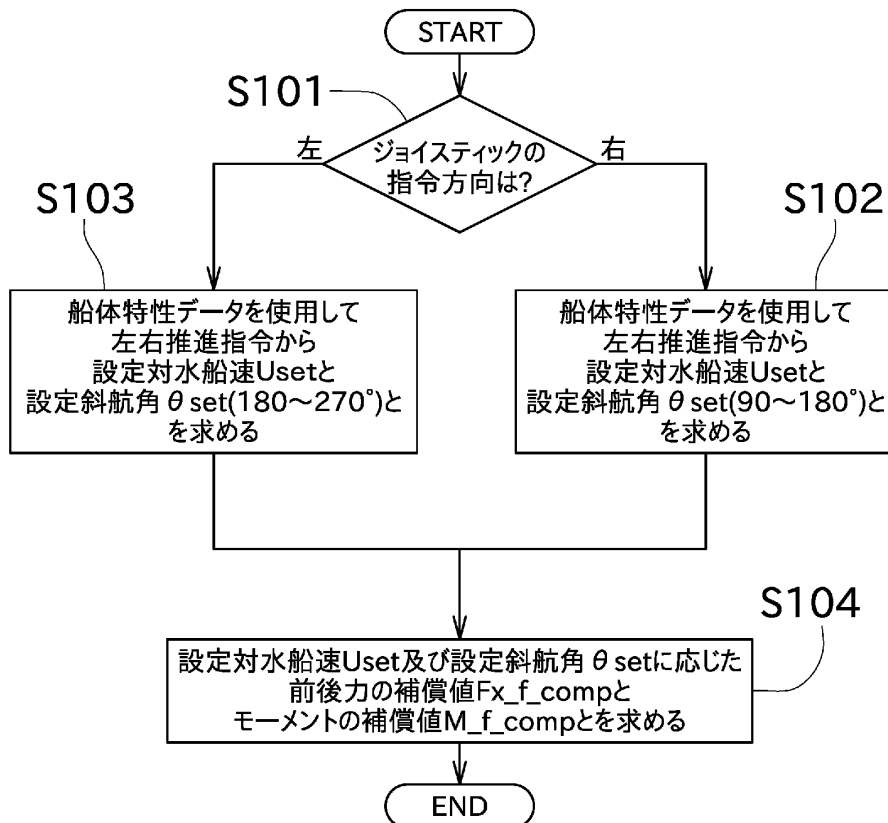


$$Fx = Fx_{jf} - Fx_{f\_comp}$$

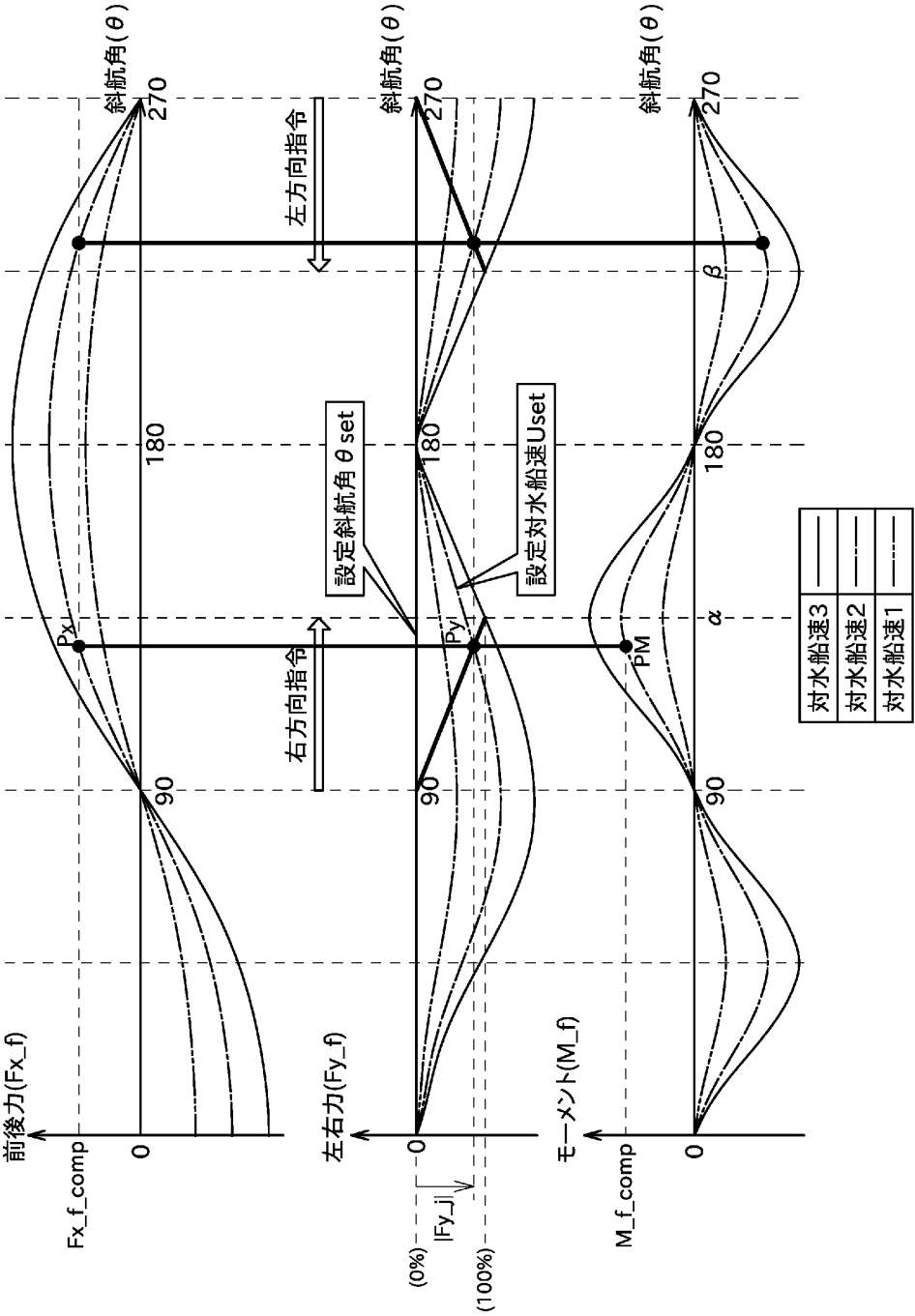
$$Fy = Fy_{jf}$$

$$M = M_{jf} - M_{f\_comp}$$

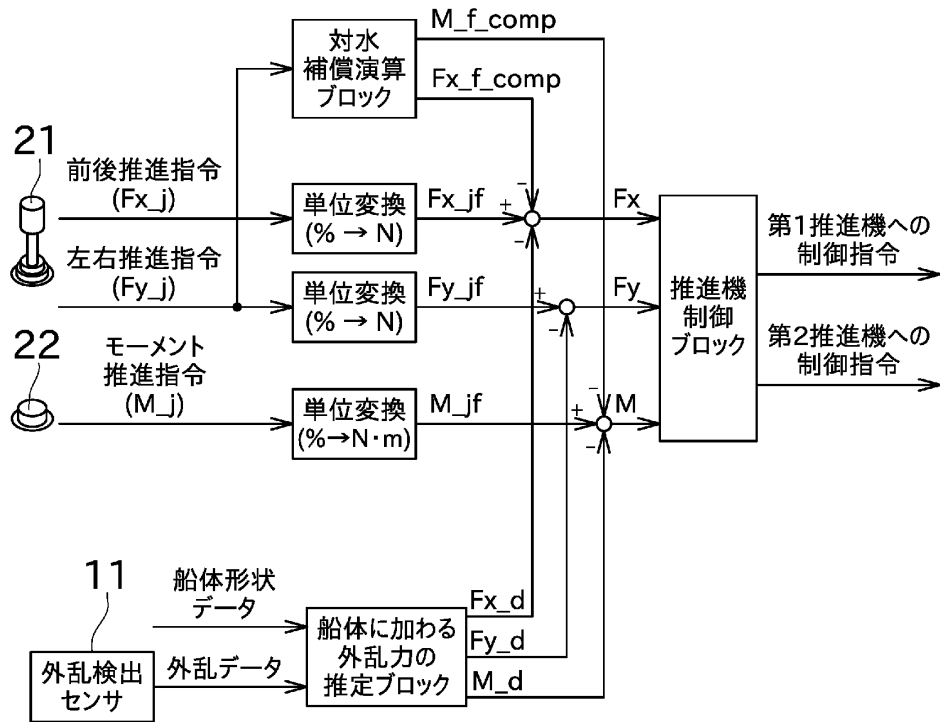
[図8]



[図9]



[図10]

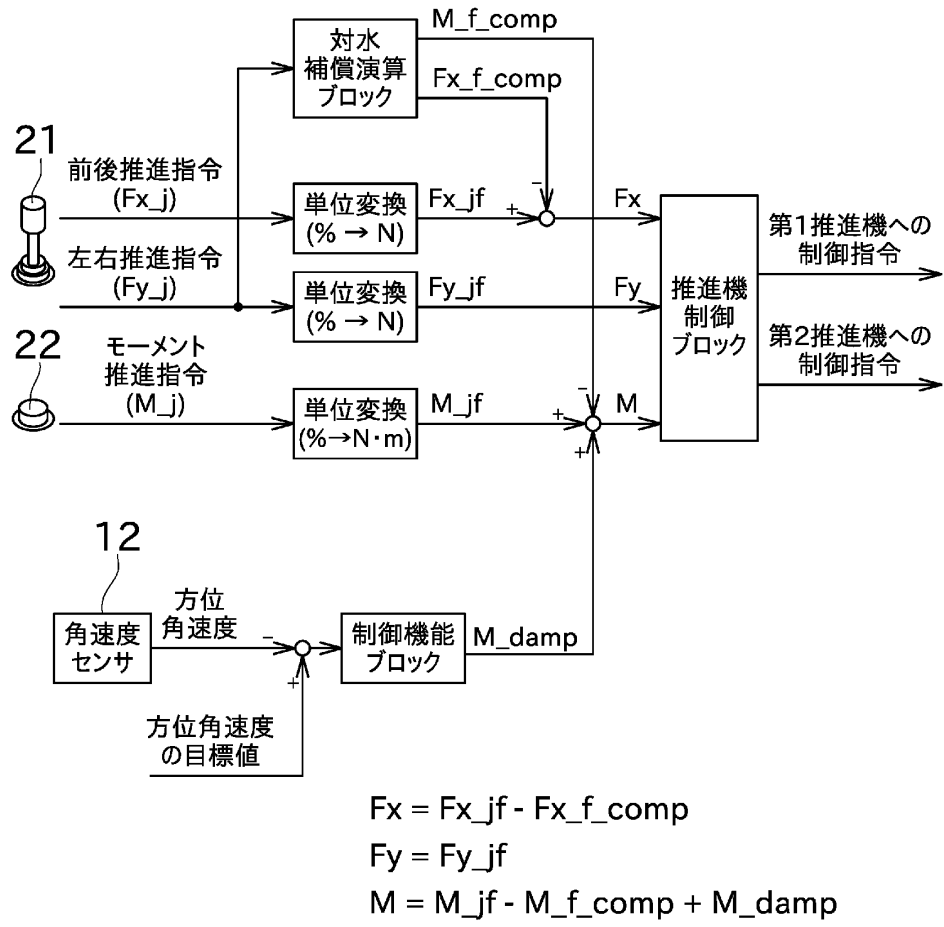


$$Fx = Fx_{jf} - Fx_{f\_comp} - Fx_d$$

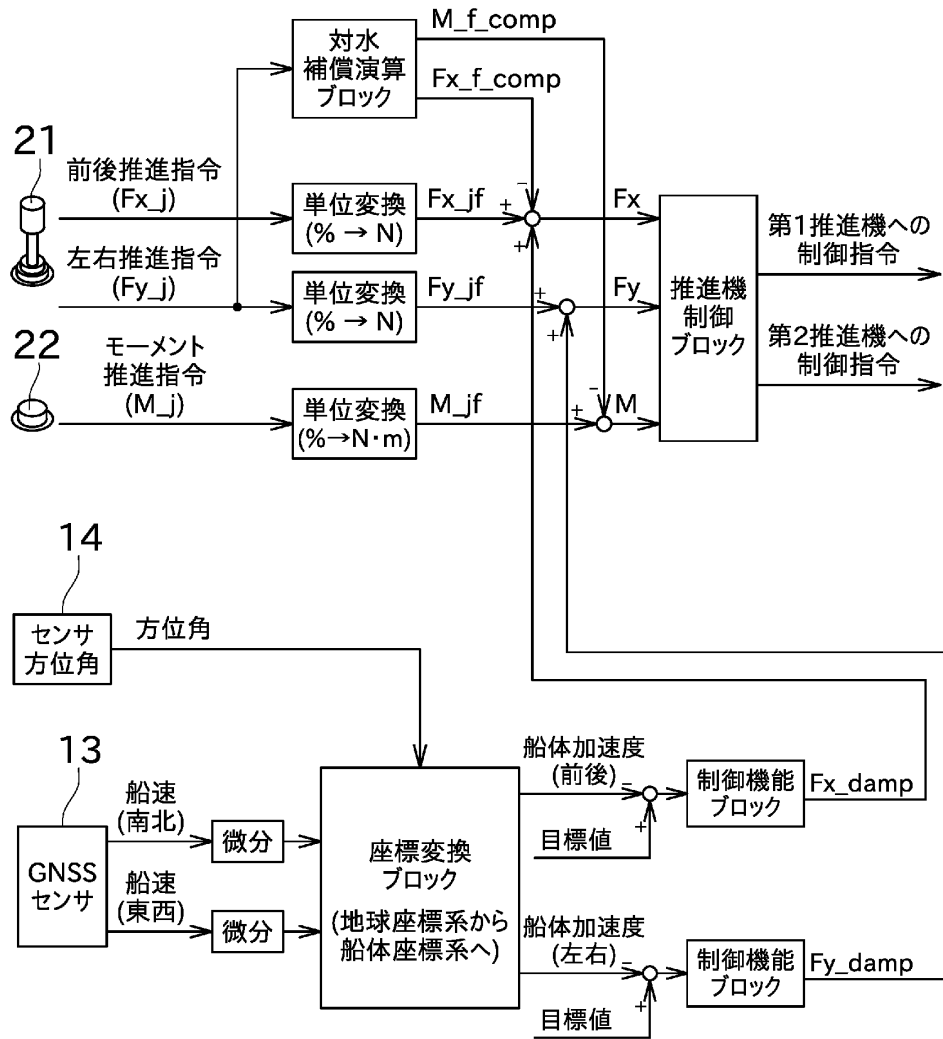
$$Fy = Fy_{jf} - Fy_d$$

$$M = M_{jf} - M_{f\_comp} - M_d$$

[図11]



[図12]

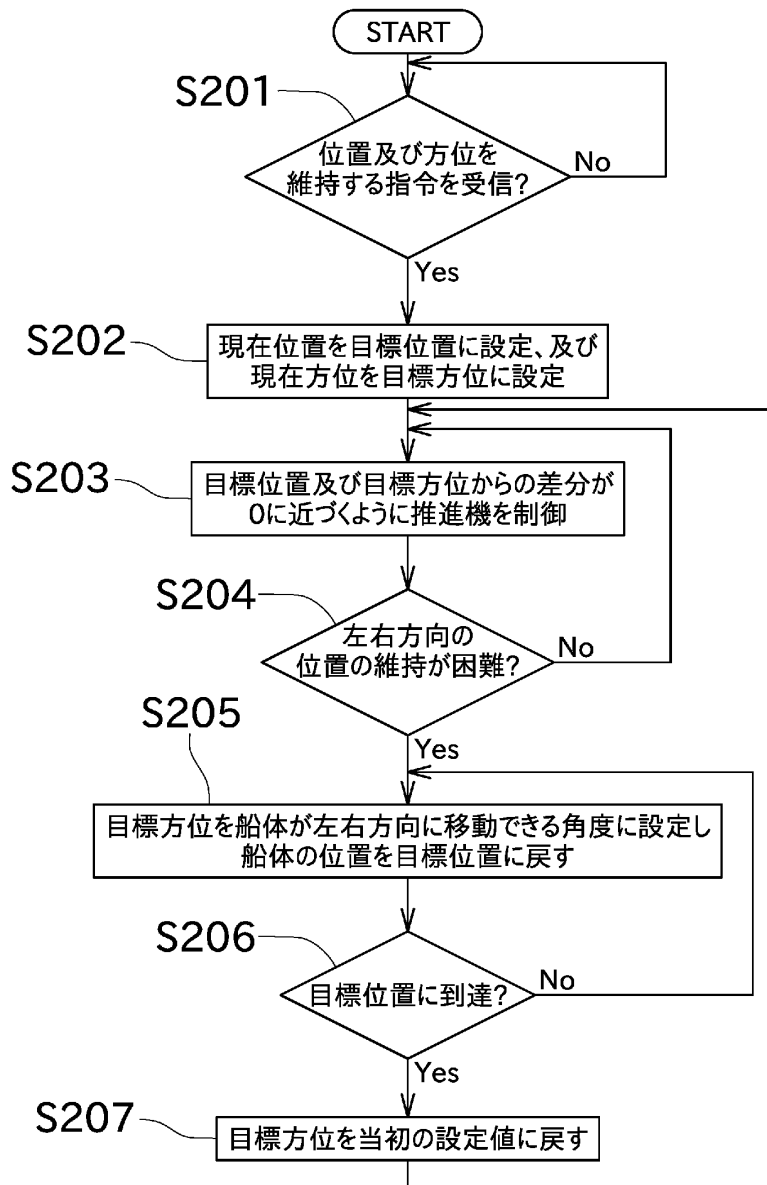


$$Fx = Fx_{jf} - Fx_{f\_comp} + Fx_{damp}$$

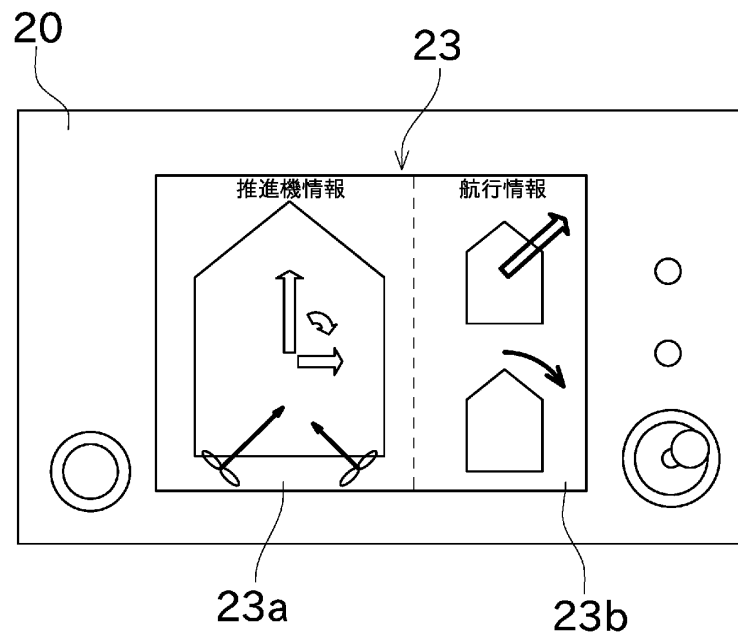
$$Fy = Fy_{jf} + Fy_{damp}$$

$$M = M_{jf} - M_{f\_comp}$$

[図13]



[図14]



[図15]

