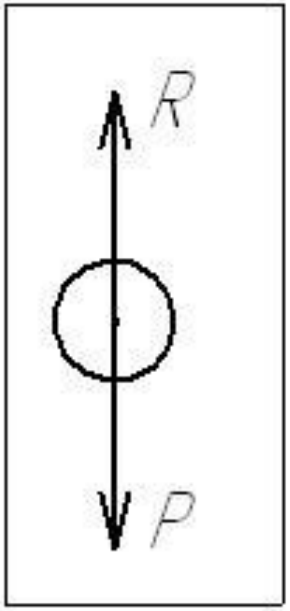
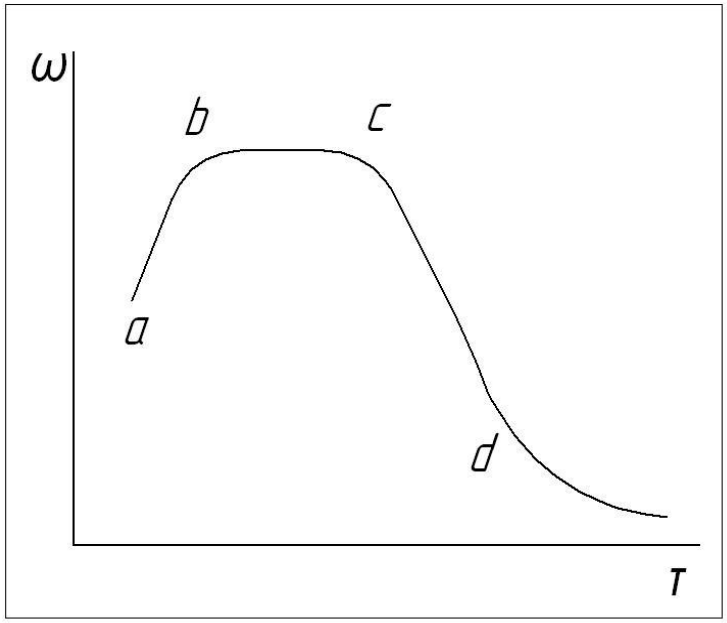


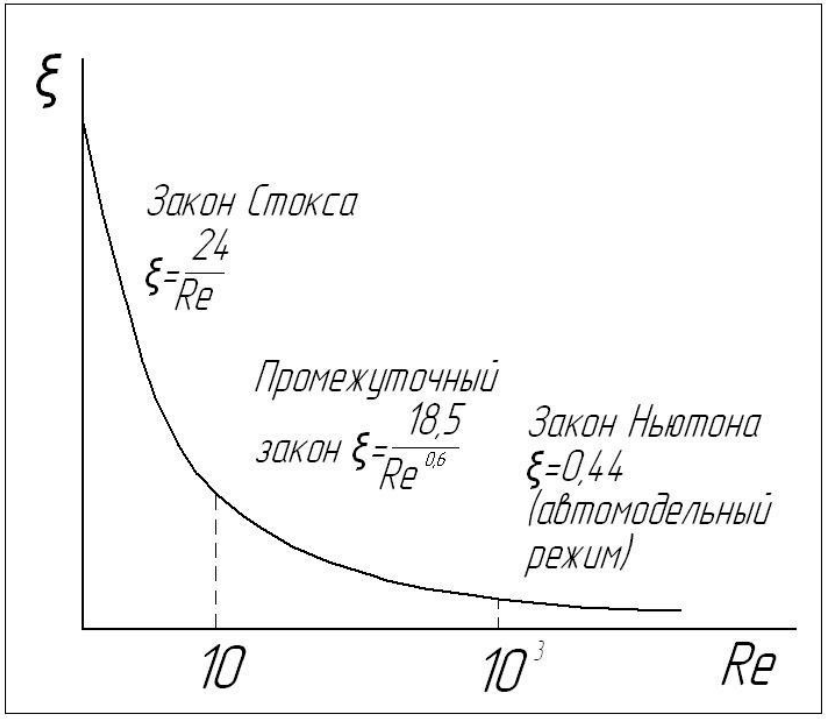
$$P-R=ma$$

$\omega=0$ и $R=0$, $\quad a_{нач}=\frac{P}{m}$ - max.

$a=0$, т.е. $\omega=\text{const}=\omega 0$ – скорость осаждения.

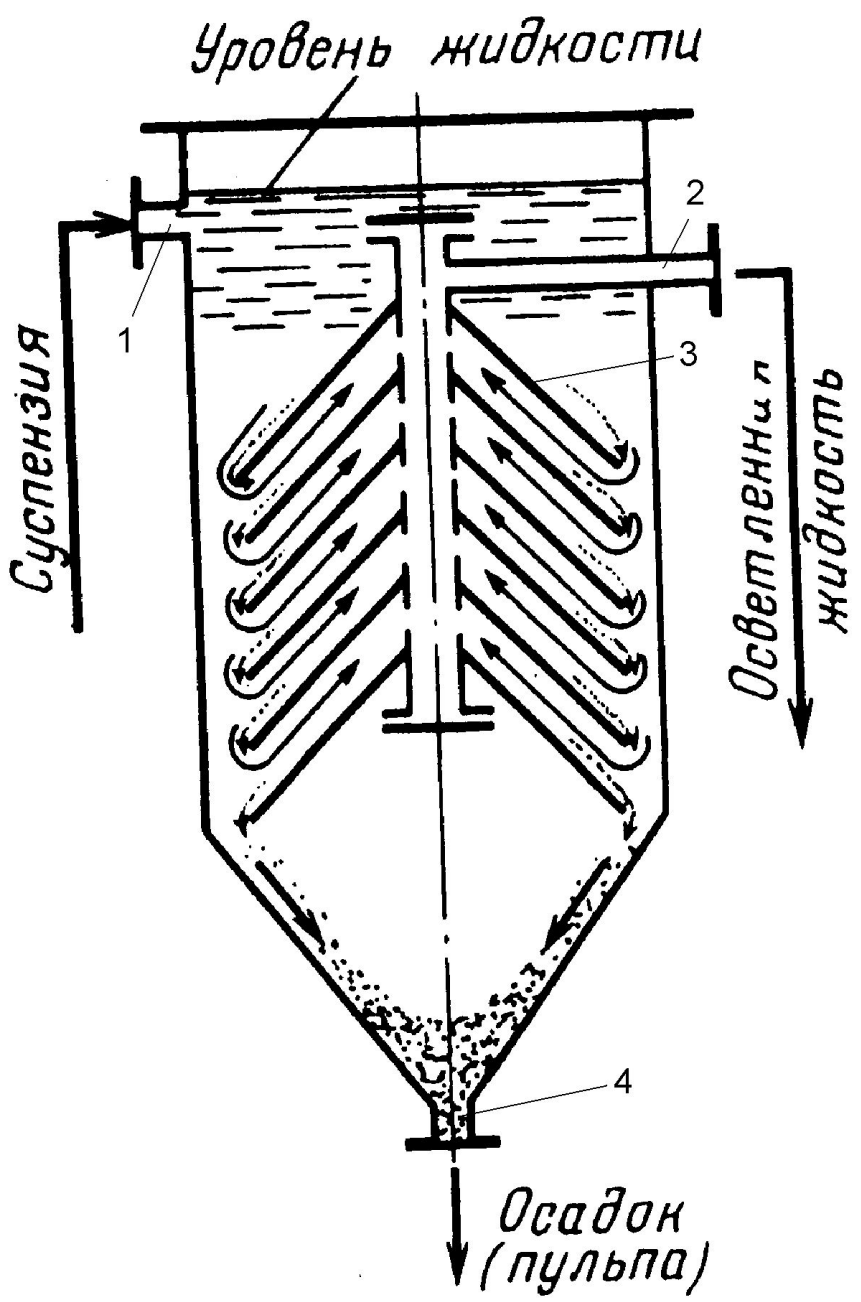


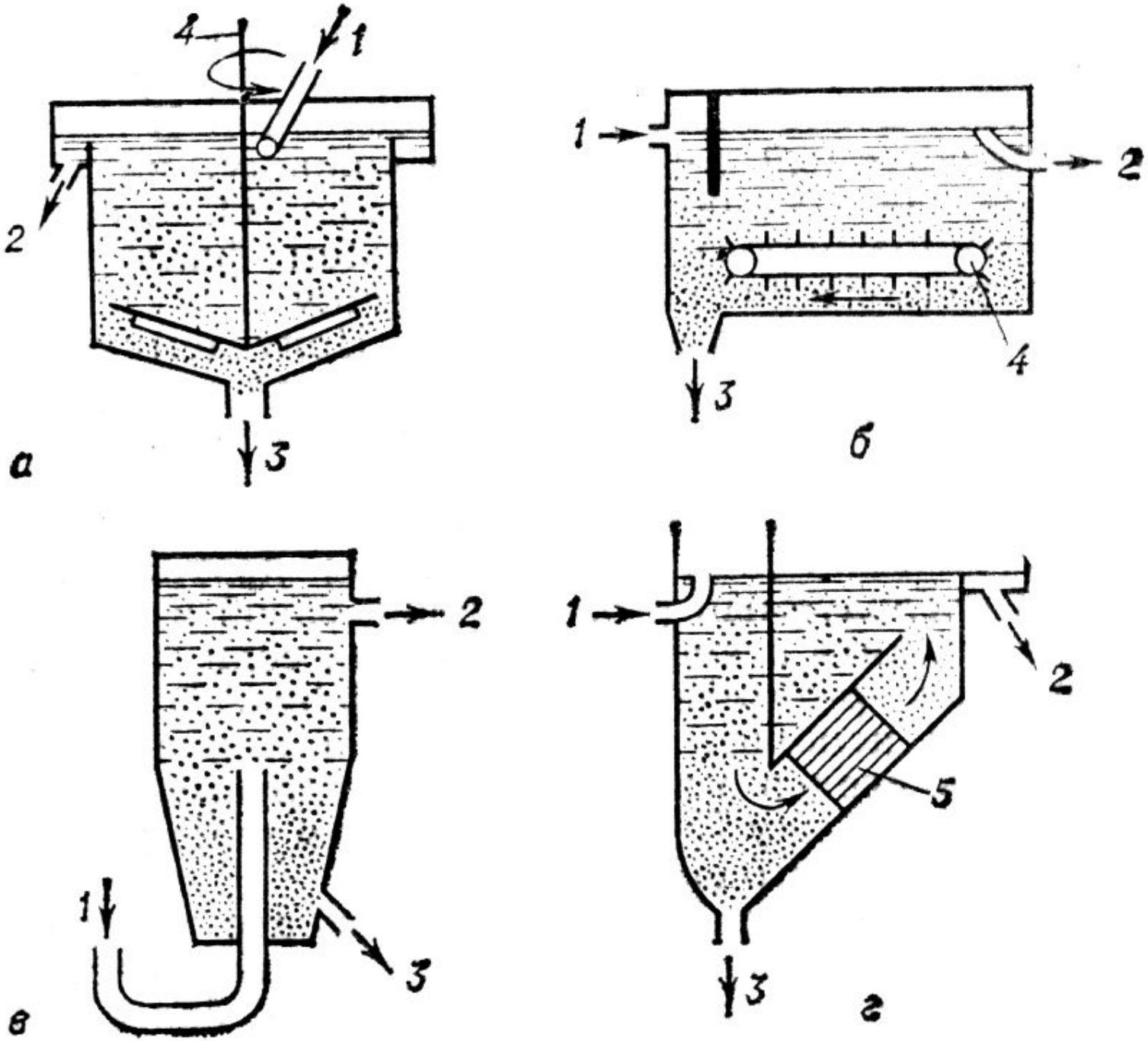
$$P = R = \xi F \frac{\rho \omega^2}{2}$$



$$V = \frac{h \cdot F}{\tau}$$

$h = \omega_0 . \tau$ $V = F . \omega_0$


Уровень жидкости
Суспензия
1
2
3
Осветленная жидкость
4
Осадок (пульпа)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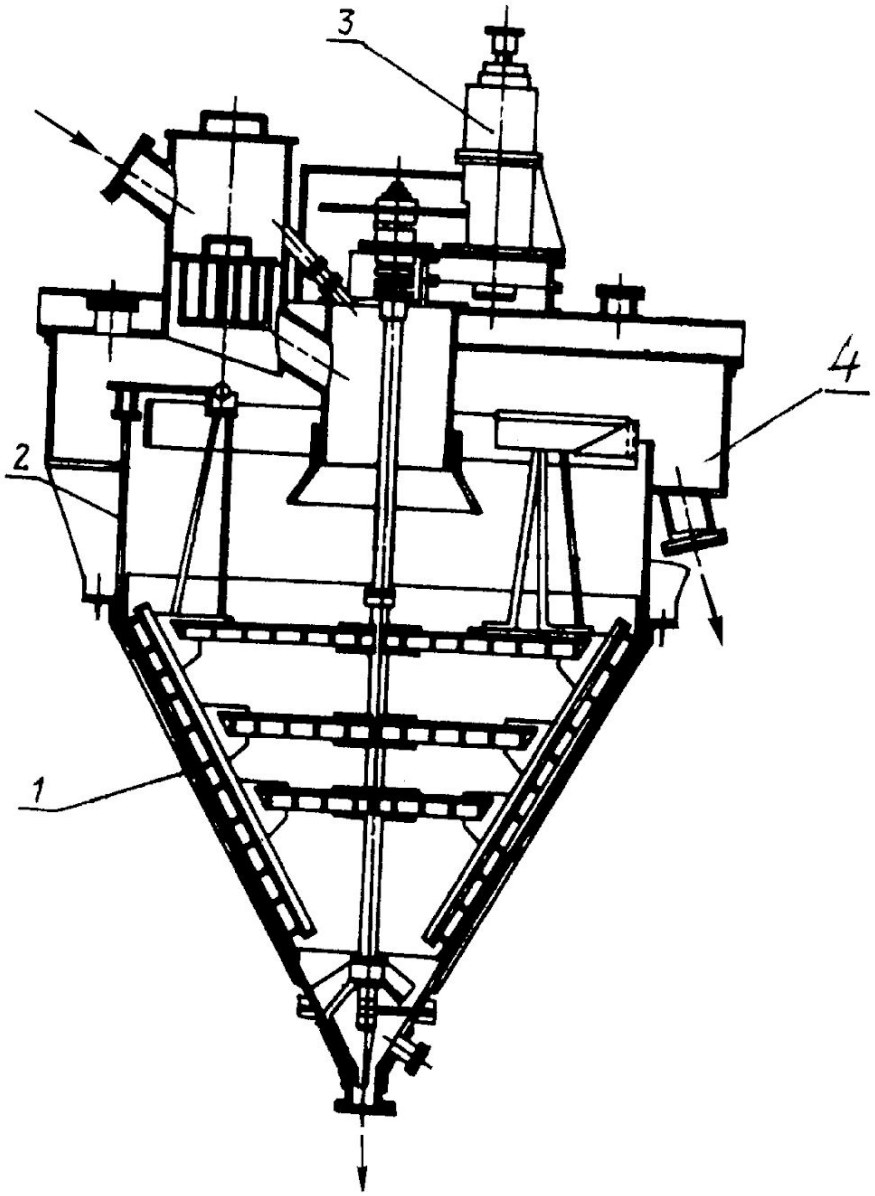
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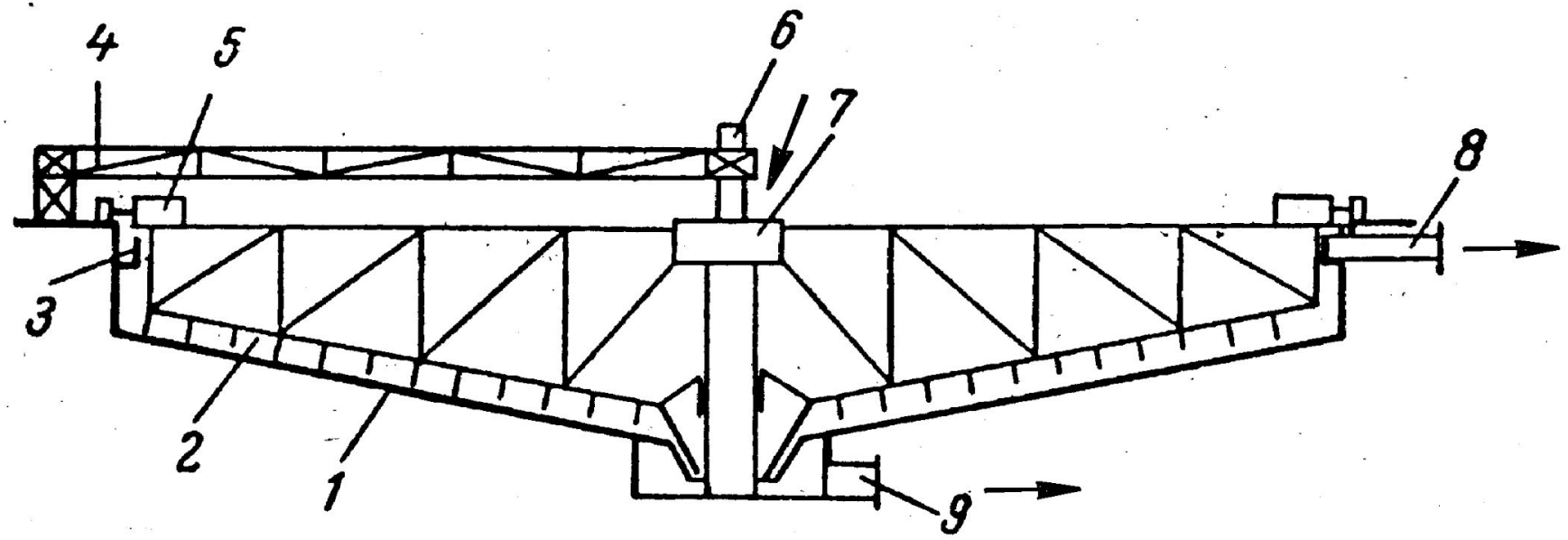
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7
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1
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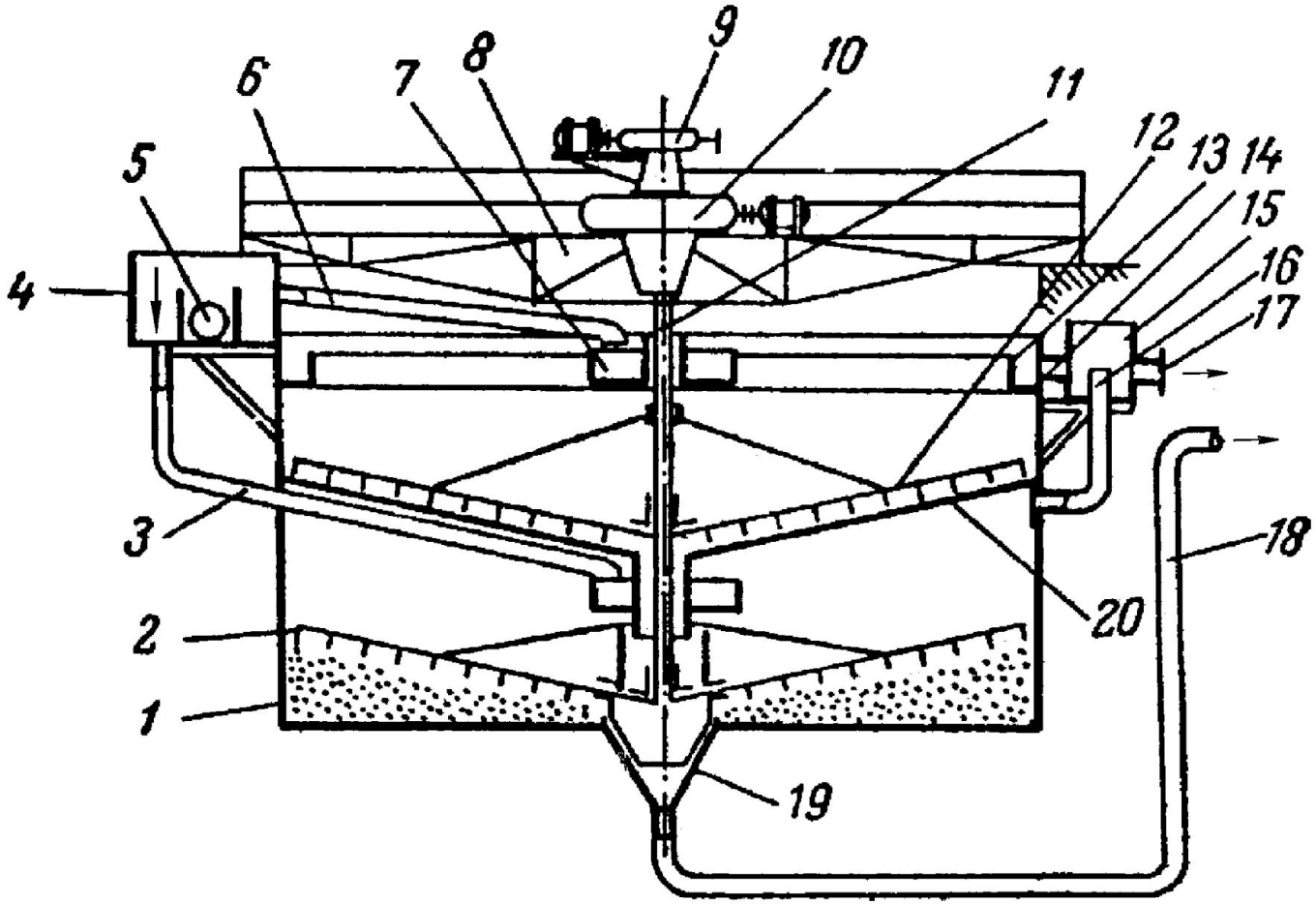
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20

$$\mathrm{Re}_{\text{ст}} = \mathrm{Ar}\,\varepsilon^{4,75} / \left(18 + 0{,}6\sqrt{\mathrm{Ar}\,\varepsilon^{4,75}}\right) \quad (1)$$

$$\mathrm{Re}_{\text{ст}} = w_{\text{ст}} d \rho_{\text{ж}} / \mu_{\text{ж}}$$

$$\mathrm{Ar} = \left(g \rho_{\text{ж}} d^3 / \mu_{\text{ж}}^2\right)\left(\rho_{\text{Т}} - \rho_{\text{ж}}\right)$$

$$\psi = 4{,}836\, V_{\text{ч}}^{2/3} / S_{\text{ч}} < 1,$$

$$d_{\text{ч}} = \left(\frac{6V_{\text{ч}}}{\pi}\right)^{1/3}.$$

$$\varepsilon = 1 - \left(c_{\text{н}} \rho_{\text{с}} / \rho_{\text{т}} \right),$$

$$\rho_{\text{с}} = 1 / \left(\frac{c_{\text{н}}}{\rho_{\text{т}}} + \frac{1 - c_{\text{н}}}{\rho_{\text{ж}}} \right)$$

$$F_{\text{ос}} = V_{\text{осв}} / W_{\text{ст}}$$