if $D/d < e^{\mu\alpha} \implies F1/F2 < e^{\mu\alpha}$
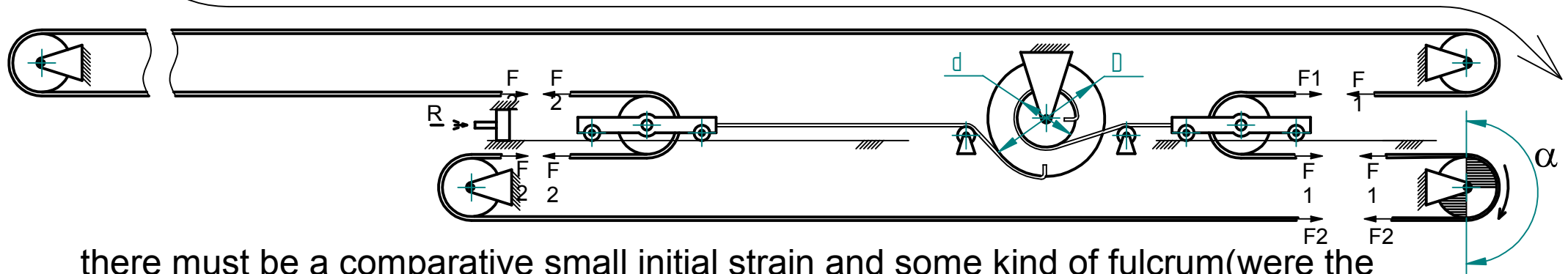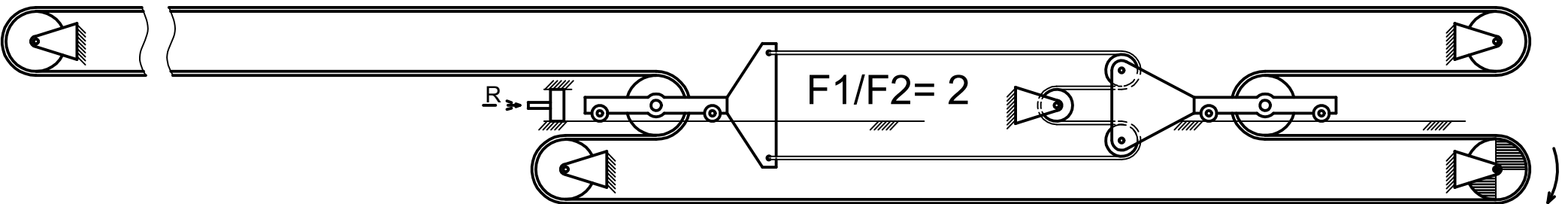
(e=2,71828)



there must be a comparative small initial strain and some kind of fulcrum(were the reaction force R is shown). This fulcrum have to prevent the full loosen of the belt when the conveyor is stoped.

## example:

If: $\mu=0,3$; $\alpha=\pi$



F1/F2= 2

$$F1/F2 = 2 = const < e^{\mu\alpha} = 2,565$$