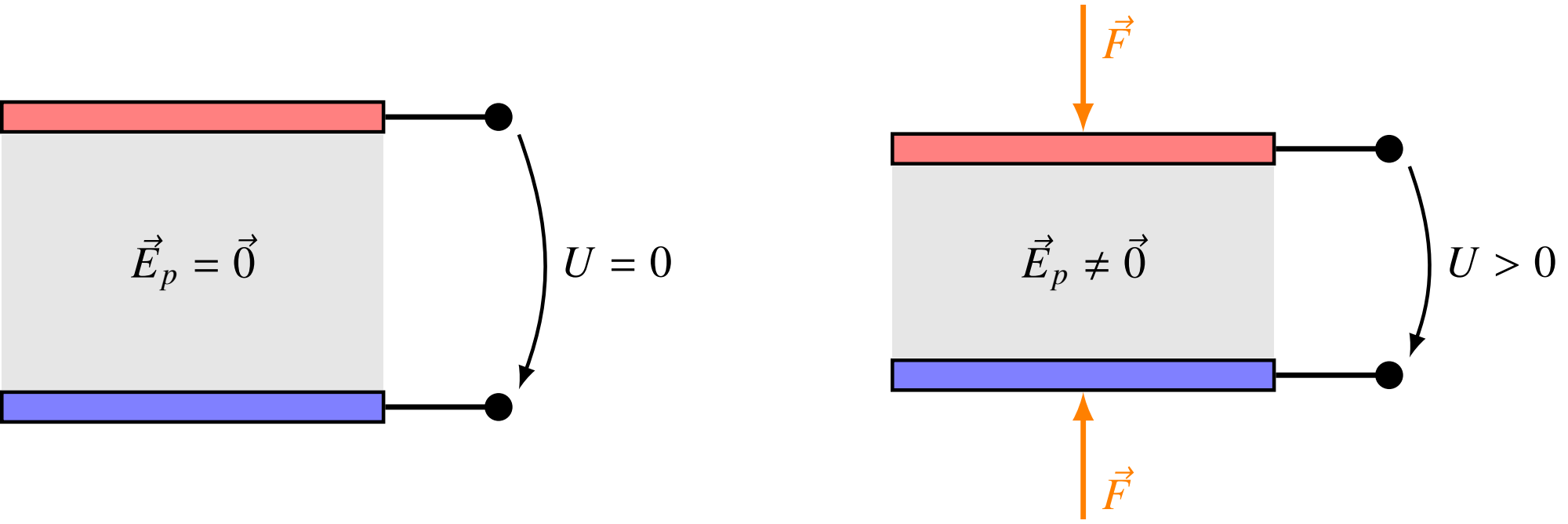
$\vec{E}_p = \vec{0}$
$U = 0$
$\vec{F}$
$\vec{E}_p \neq \vec{0}$
$U > 0$
$\vec{F}$