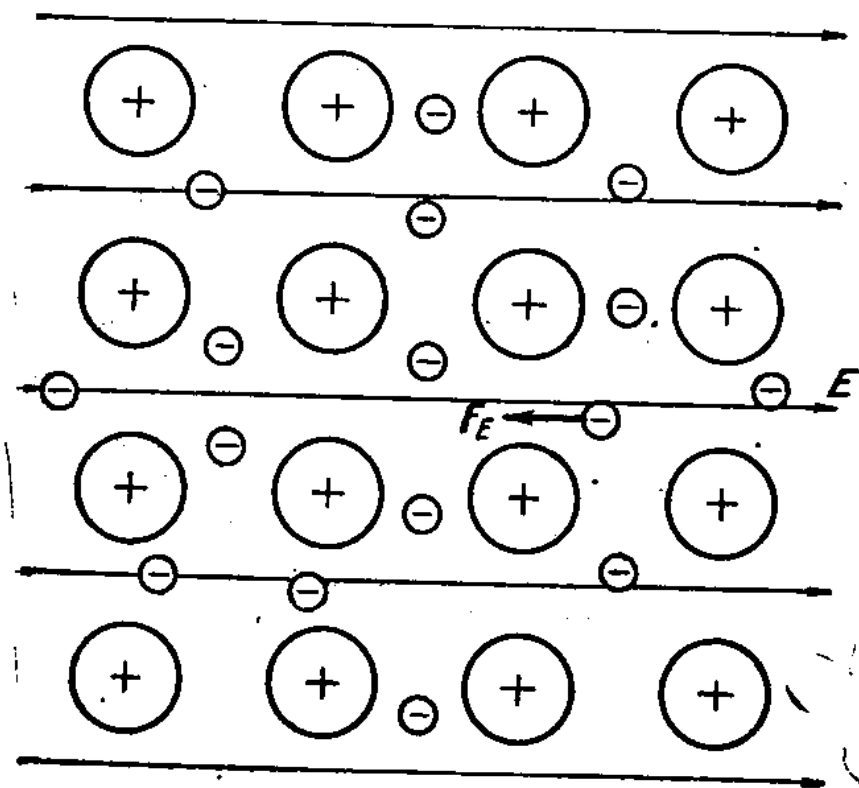


Metallarning o'tkazuvchanligining elektron nazariyasi



$$1) F = eE$$

$$2) a = \frac{F}{m} = \frac{e}{m} E$$

$$3) \tau = \frac{l}{v}$$

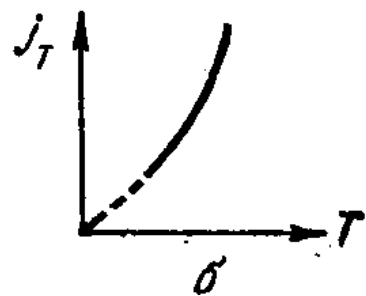
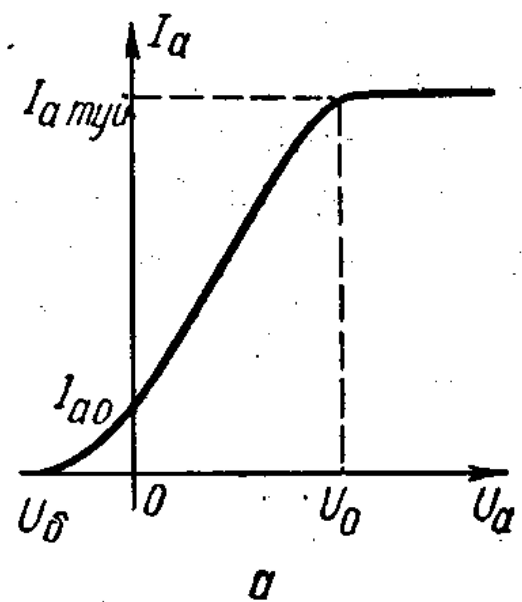
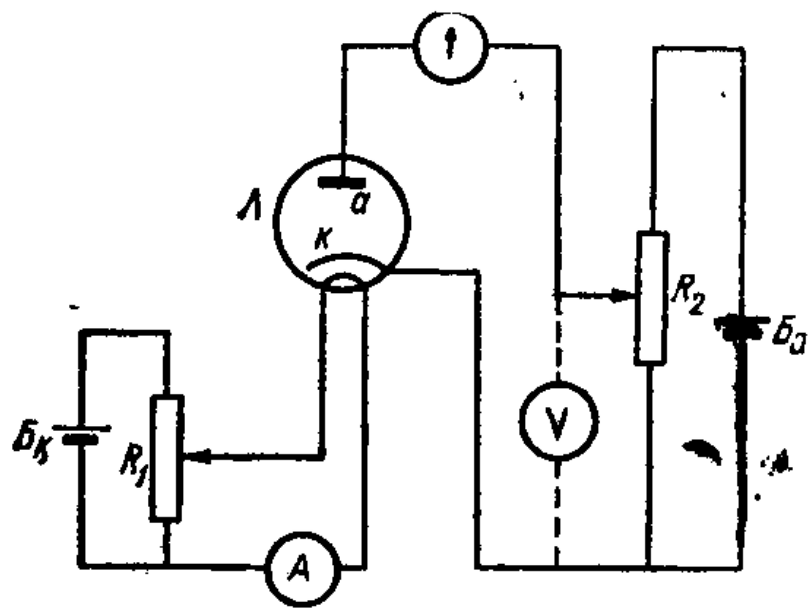
$$4) u_{\max} = a\tau = \frac{el}{mv} E$$

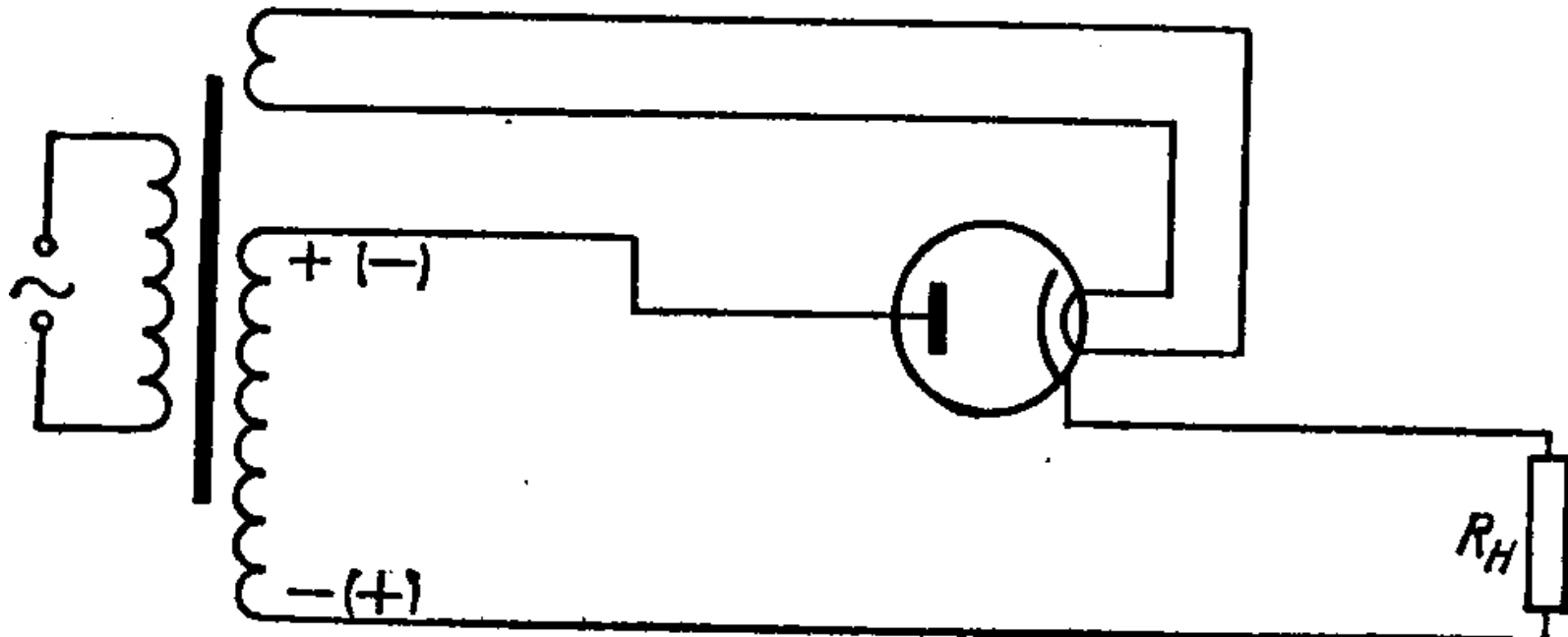
$$5) U_{o'r} = \frac{0 + u_{\max}}{2} = \frac{el}{2mv} E$$

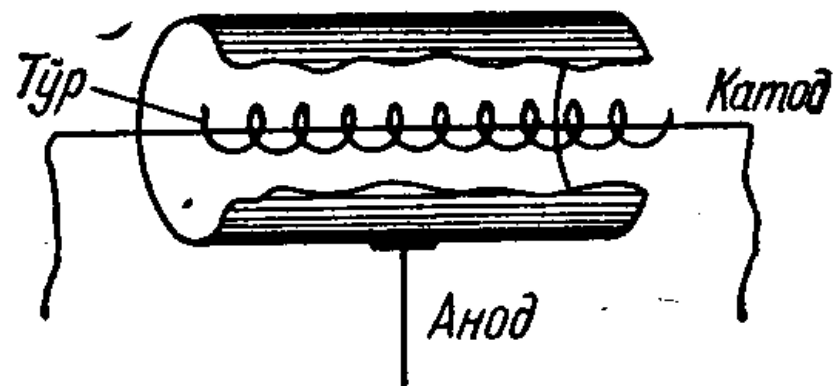
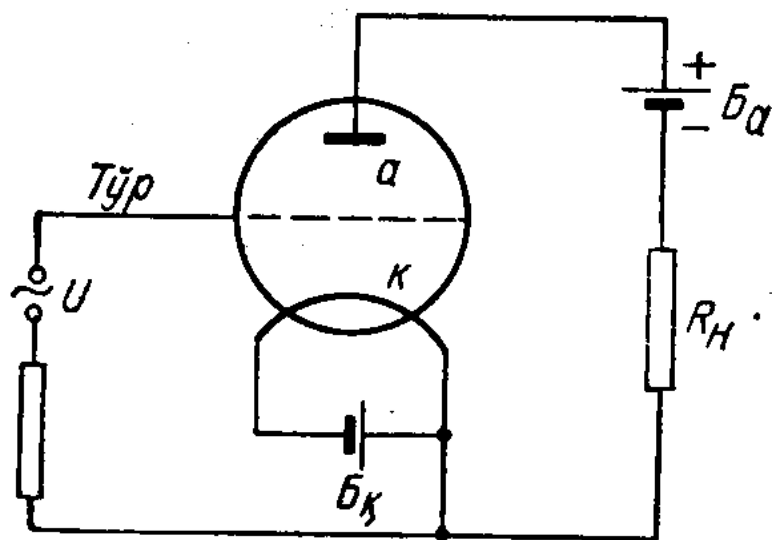
$$6) j = enu_{o'r}$$

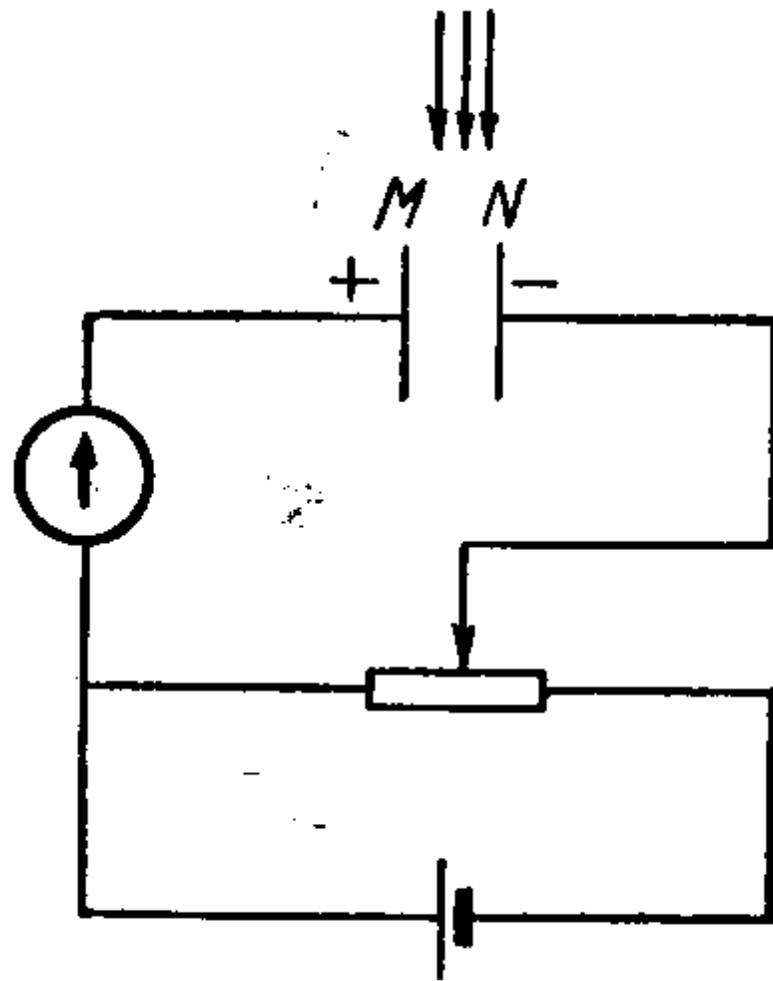
$$7) j = \frac{e^2 nl}{2mv} E$$

$$8) \delta = \frac{e^2 nl}{2mv}$$









$$Q_+ = qnv_+ S\Delta t = qnu_+ ES\Delta t$$

$$Q_- = qnv_- S\Delta t = qnu_- ES\Delta t$$

$$Q = |Q_+| + |Q_-| = qn(u_+ + u_-)ES\Delta t$$

$$j = \frac{Q}{S \cdot \Delta t} = qn(u_+ + u_-)E$$