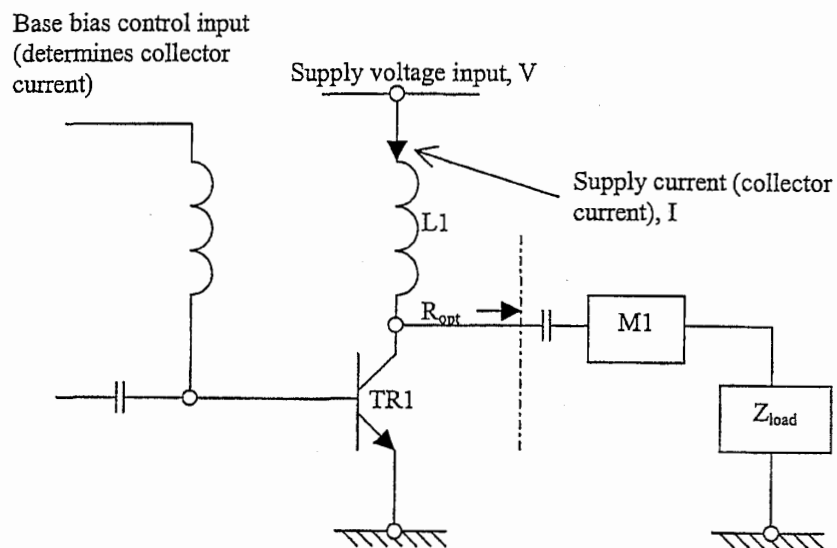
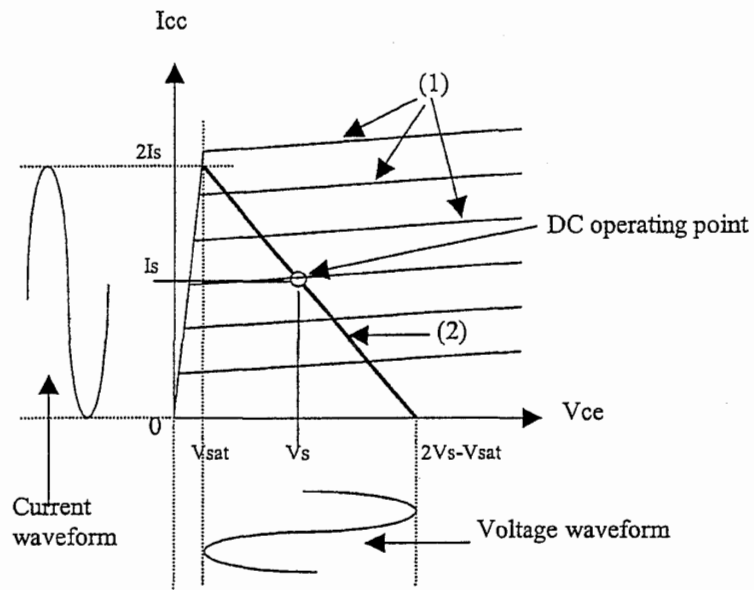


FIGURE 1

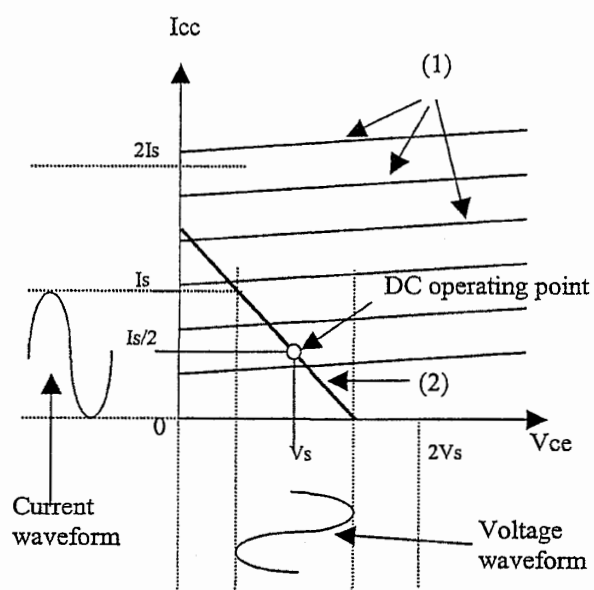


$$\text{DC power} = V_s \cdot I_s$$

$$\text{AC power} = [(V_s - V_{sat}) \cdot I_s] / 2$$

$$\text{Efficiency} \cong 50\% \text{ (as } V_{sat} \rightarrow 0)$$

FIGURE 2

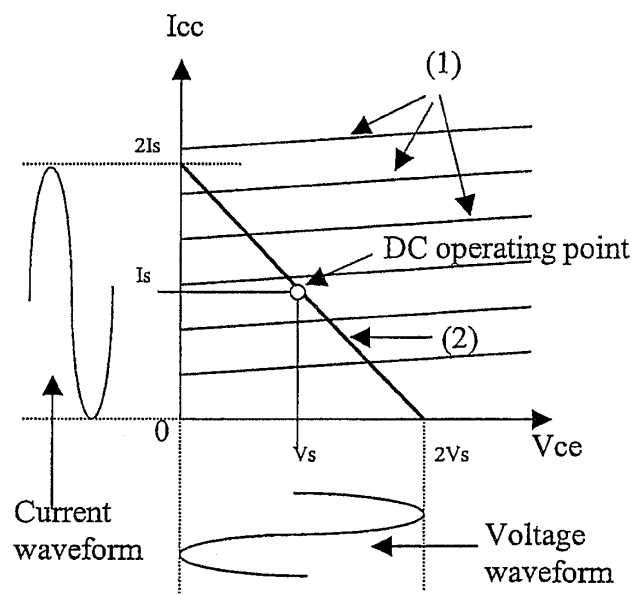


$$\text{DC power} = V_s * I_{s/2}$$

$$\text{AC power} = (V_s * I_s) / 8 \quad (V_{sat} \rightarrow 0)$$

$$\text{Efficiency} = 25\%$$

FIGURE 3



$$\text{DC power} = V_s \cdot I_s$$

$$\text{AC power} = (V_s \cdot I_s) / 2 \quad (V_{\text{sat}} \rightarrow 0)$$

$$\text{Efficiency} = 50\%$$

FIGURE 4

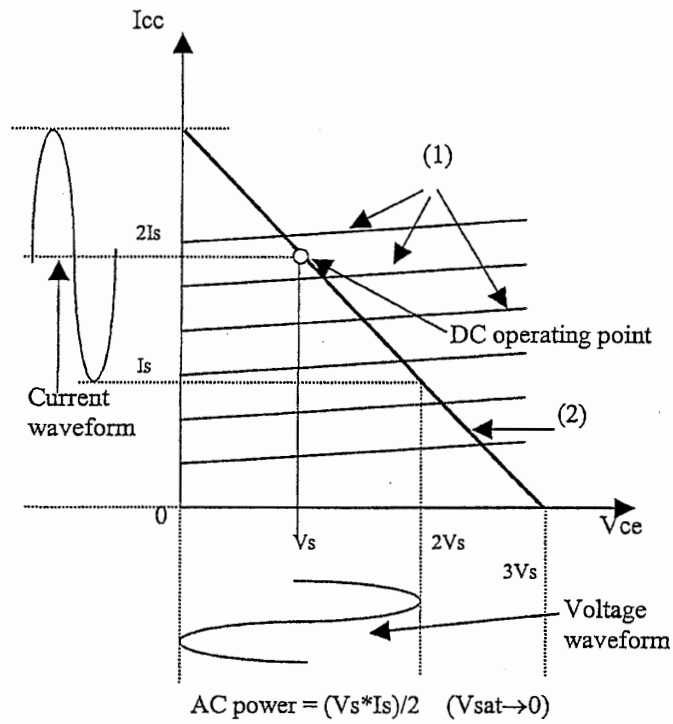
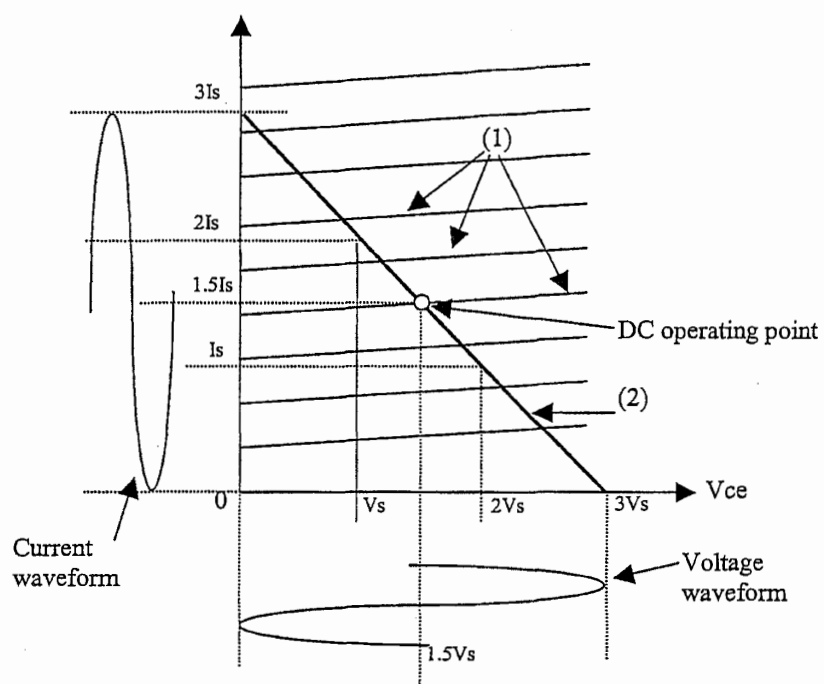


FIGURE 5

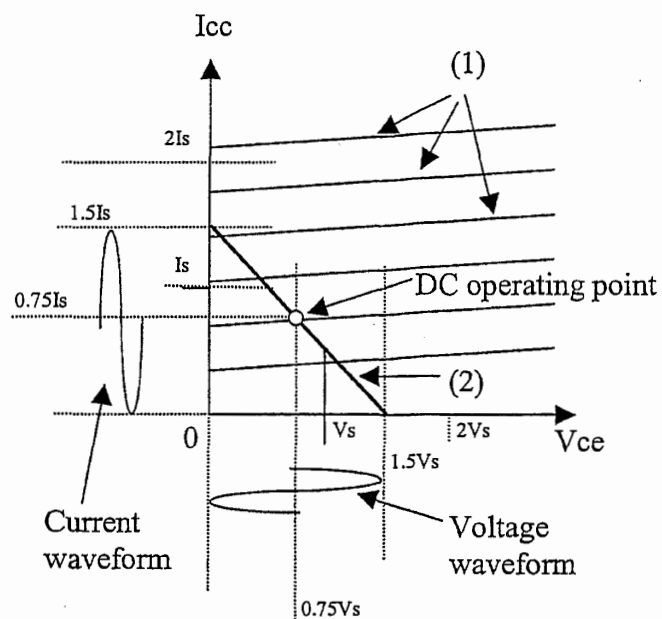


$$\text{AC power} = (1.5V_s * 1.5I_s) \quad (V_{sat} \rightarrow 0)$$

$$\text{DC power} = (1.5V_s * 1.5I_s) / 2$$

$$\text{Efficiency} = 50\%$$

FIGURE 6



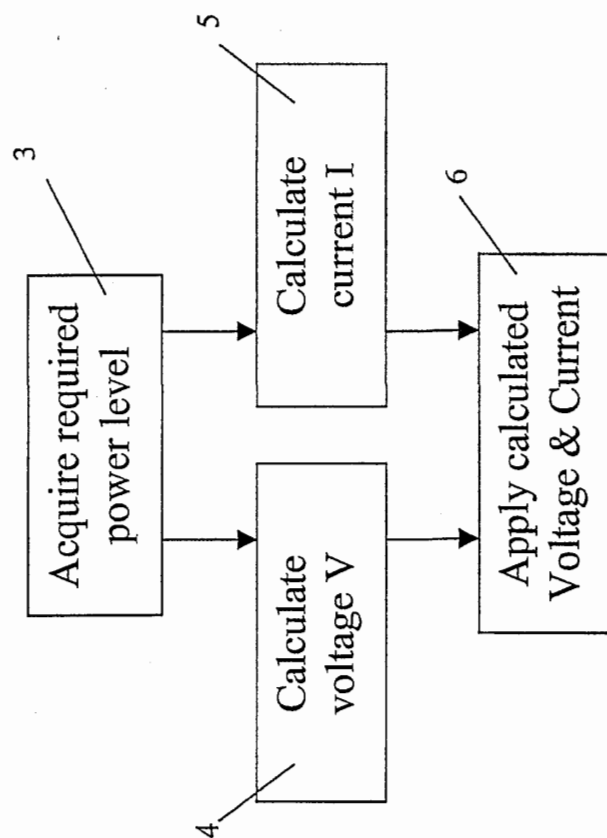
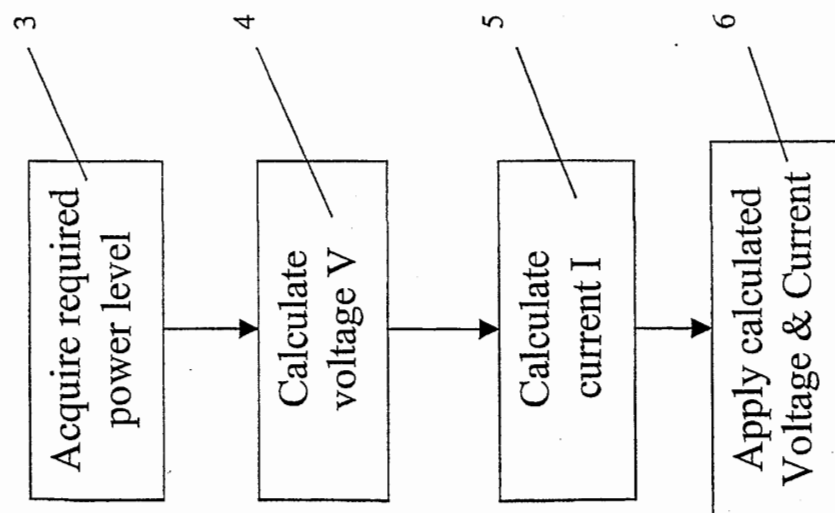
$$\text{AC power} = (0.75V_s * 0.75I_s) / 2$$

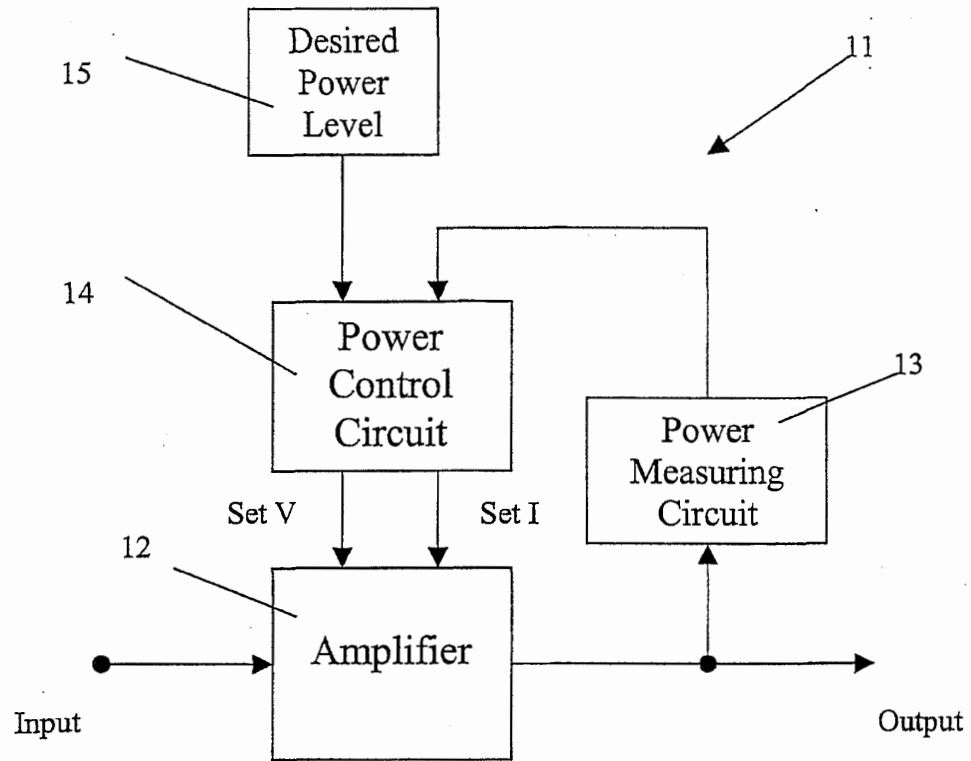
$$(V_{\text{sat}} \rightarrow 0)$$

$$\text{DC power} = 0.75V_s * 0.75I_s$$

$$\text{Efficiency} = 50\%$$

FIGURE 7

FIGURE 9FIGURE 8

FIGURE 10

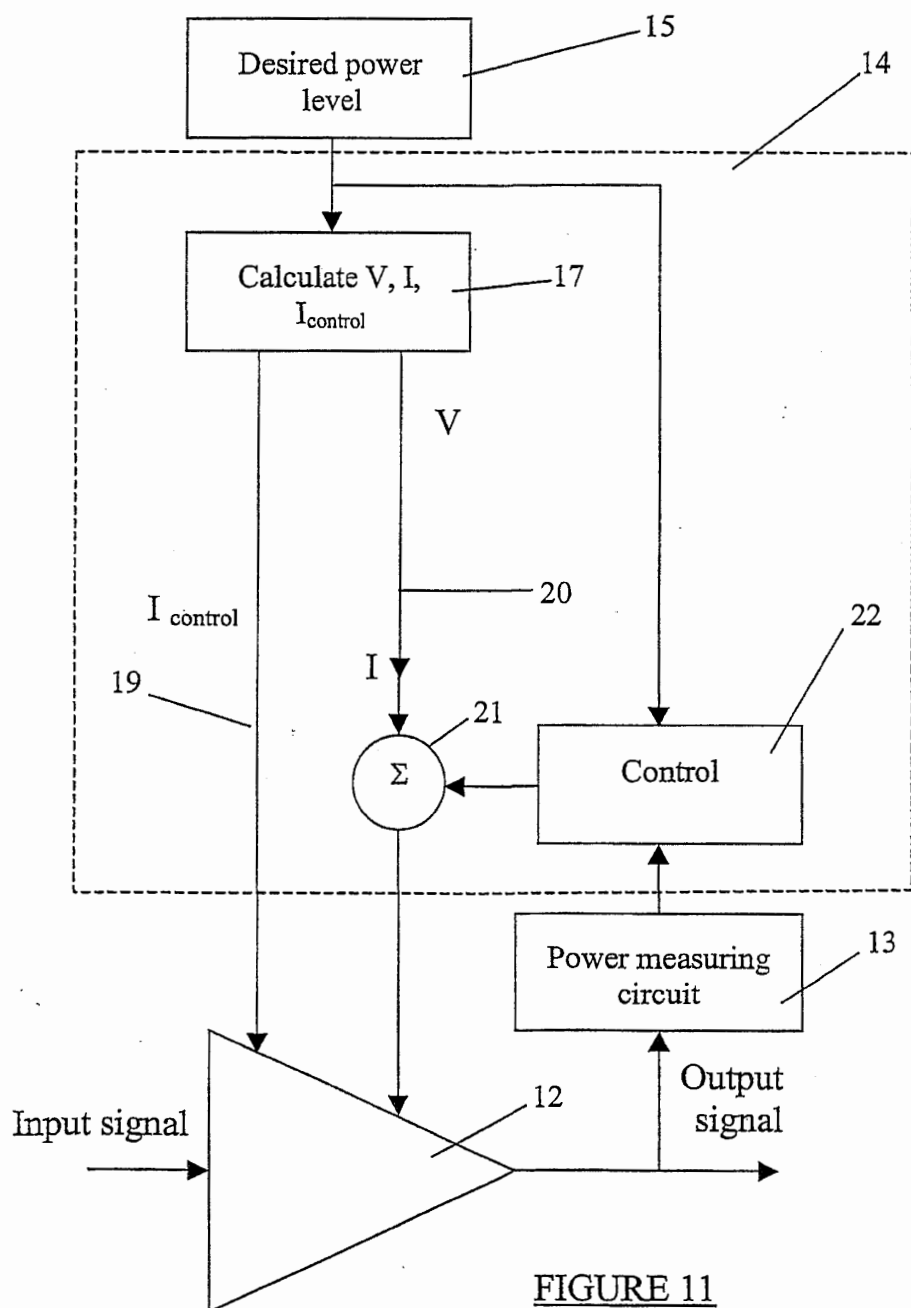


FIGURE 11

