

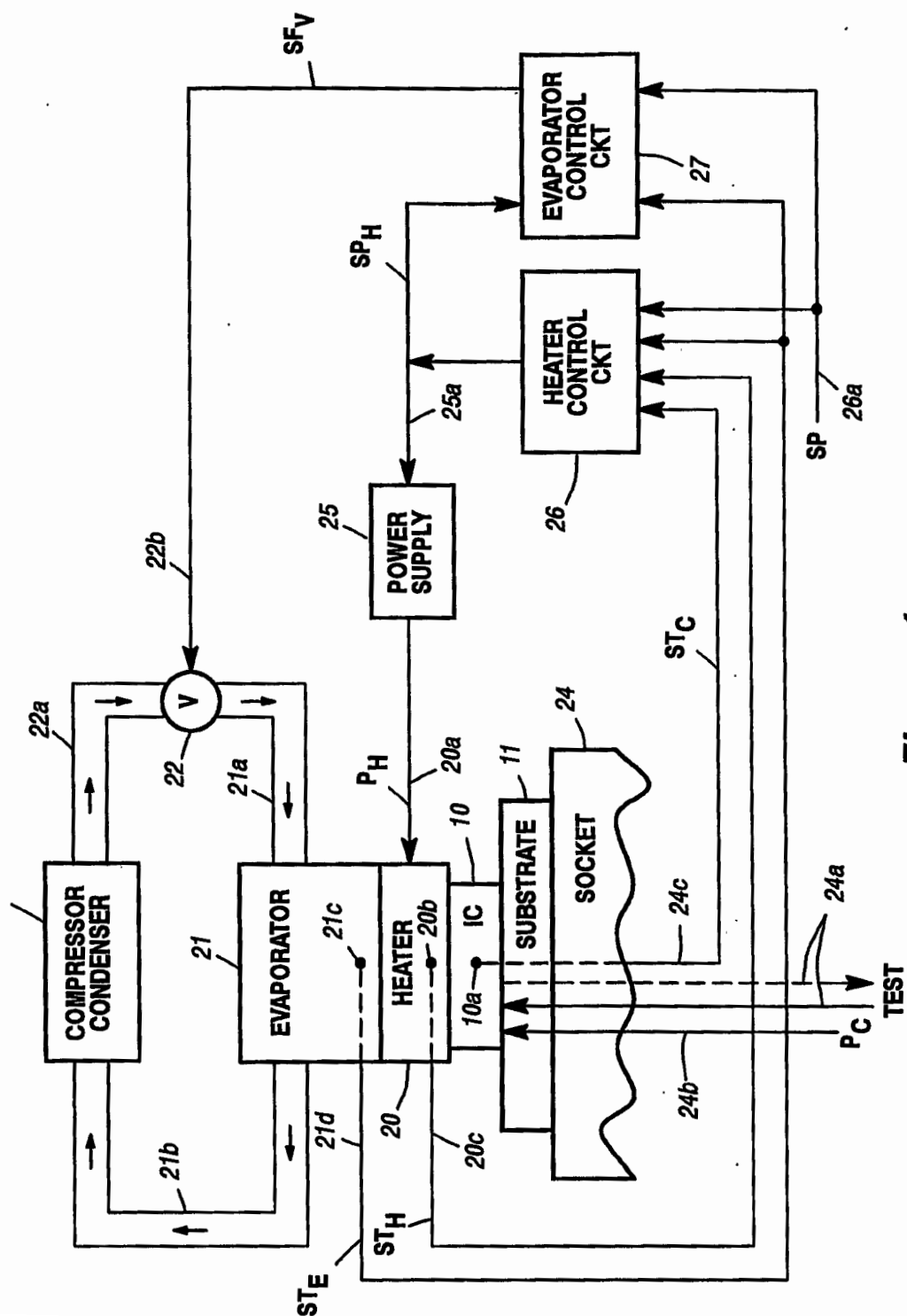
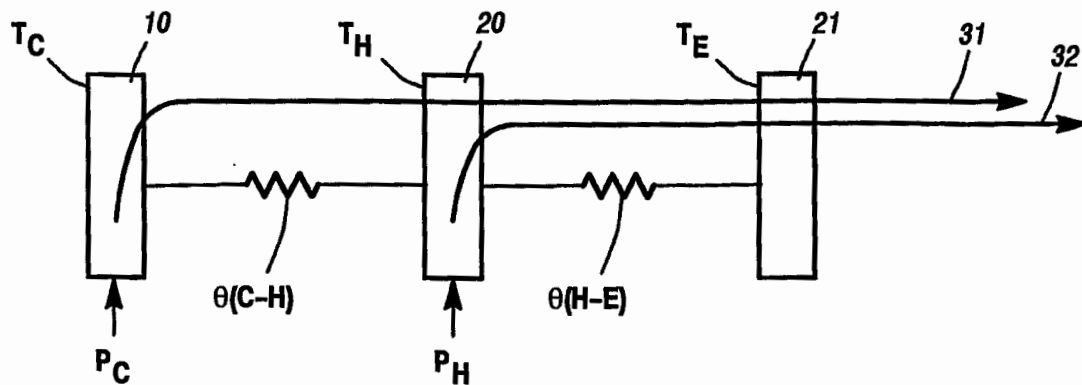
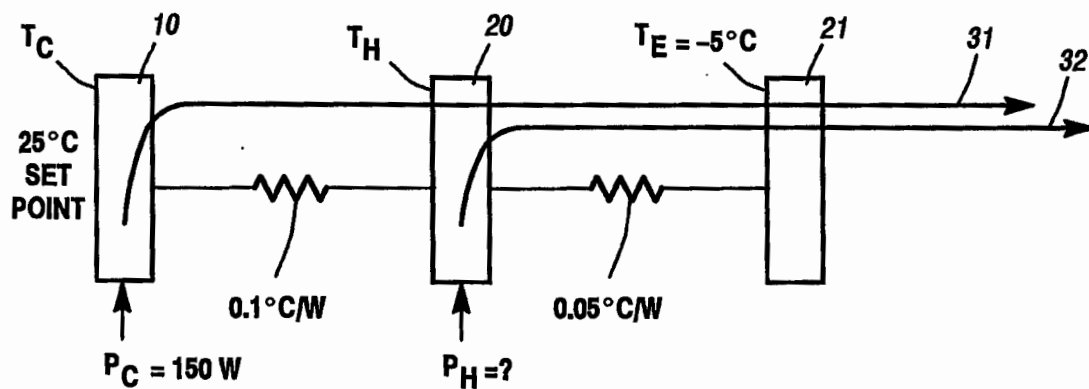


Figure 1

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**Figure 2****Figure 3**

$$\text{eq. 1} \rightarrow T_C - T_E = P_C [\theta(C-H) + \theta(H-E)] + P_H [\theta(H-E)]$$

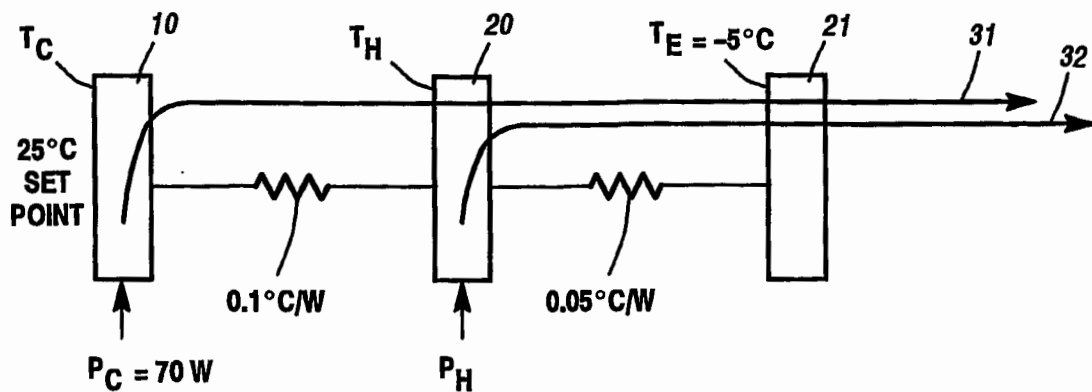
$$\text{eq. 2} \rightarrow 25 - (-5) = 150 (0.1 + 0.05) + P_H (0.05)$$

$$\text{eq. 3} \rightarrow 30 = 22.5 + 0.05 P_H$$

$$\text{eq. 4} \rightarrow P_H = 150 \text{ watts}$$

Figure 4

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**Figure 5**

eg. 10 $\rightarrow 25 - (-5) = 70 (0.1 + 0.05) + P_H (0.05)$

eg. 11 $\rightarrow 30 = 10.5 + 0.05 P_H$

eg. 12 $\rightarrow P_H = 390 \text{ watts} \leftrightarrow \text{too big}$

Figure 6

eg. 13 $\rightarrow \text{CONTROL CKT 27 SETS } T_E = +7^\circ\text{C}$

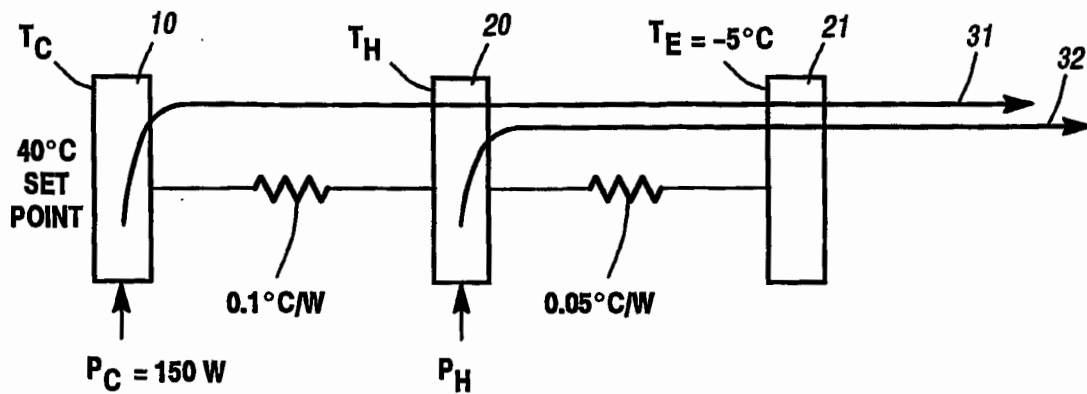
eg. 14 $\rightarrow 25 - (+7) = 70 (0.1 + 0.05) + P_H (0.05)$

eg. 15 $\rightarrow 18 = 10.5 + 0.05 P_H$

eg. 16 $\rightarrow P_H = 150 \text{ watts}$

Figure 7

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**Figure 8**

eg. 20 $\rightarrow 40 - (-5) = 150 (0.1 + 0.05) + P_H (0.05)$

eg. 21 $\rightarrow 45 = 22.5 + 0.05 P_H$

eg. 22 $\rightarrow P_H = 450 \text{ watts} \leftrightarrow \text{too big}$

Figure 9

eg. 23 $\rightarrow \text{CONTROL CKT 27 SETS } T_E = +10^\circ\text{C}$

eg. 24 $\rightarrow 40 - (10) = 150 (0.1 + 0.05) + P_H (0.05)$

eg. 25 $\rightarrow 30 = 22.5 + 0.05 P_H$

eg. 26 $\rightarrow P_H = 150 \text{ watts}$

Figure 10

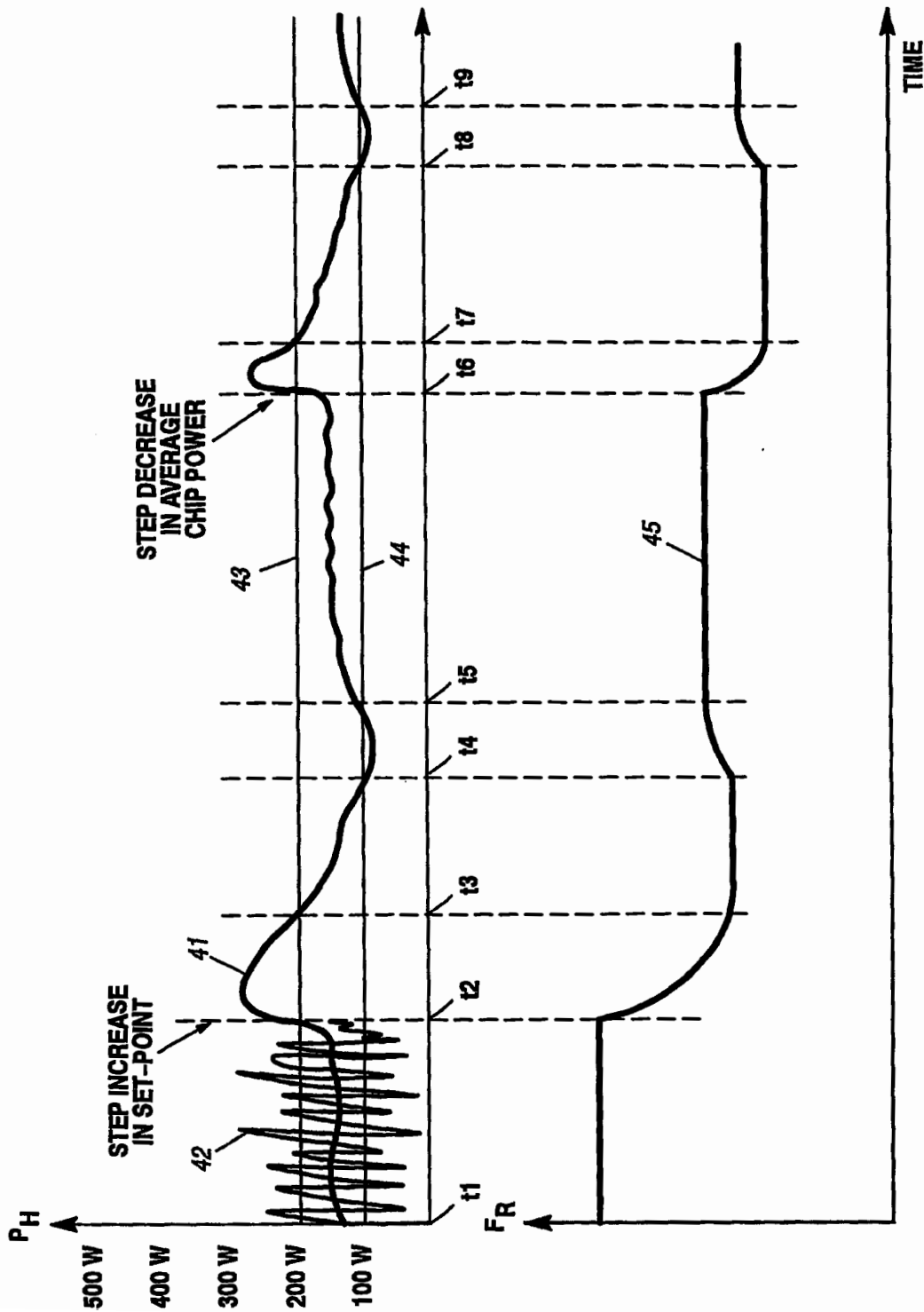
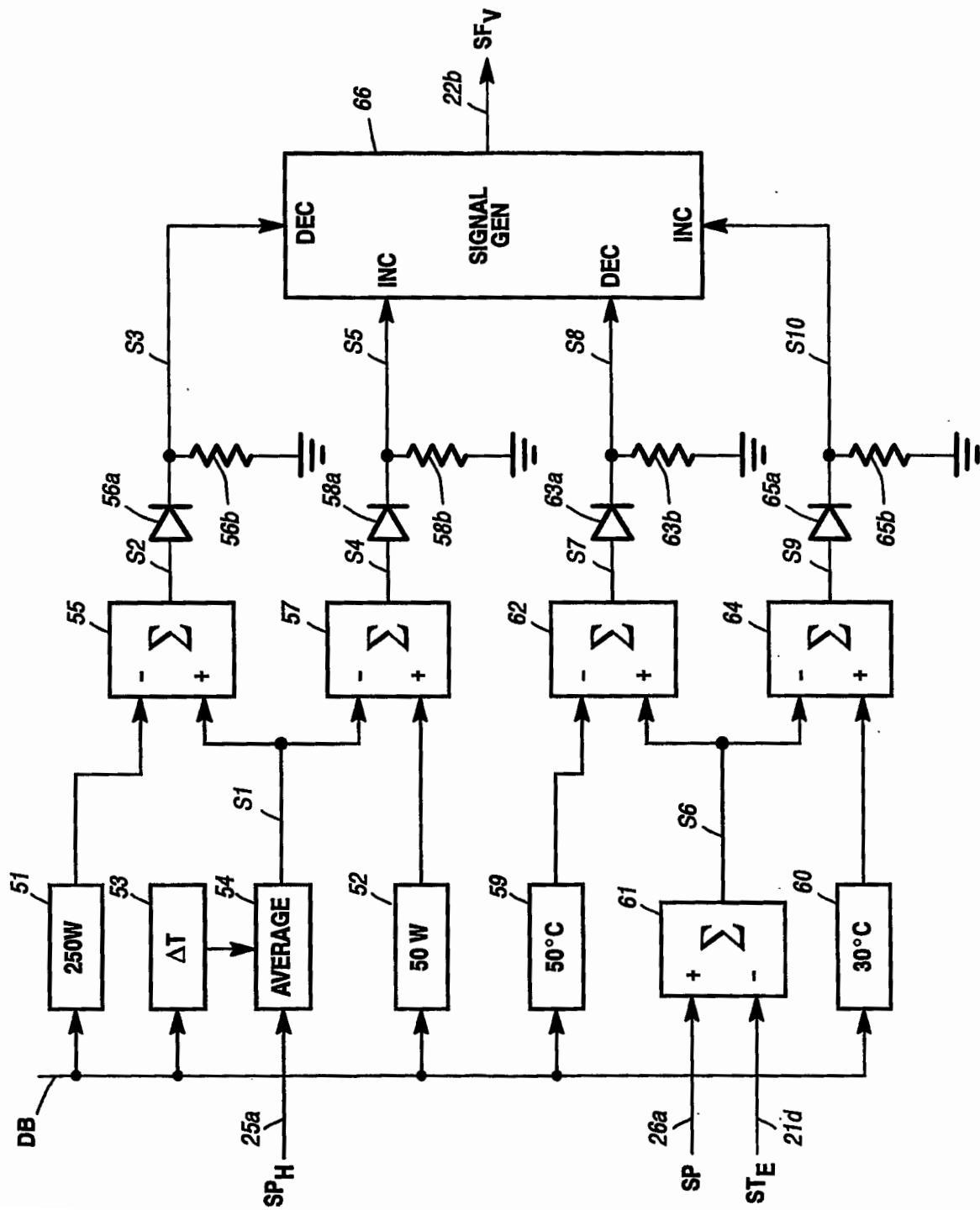


Figure 11

**Figure 12**