United States Patent [19]

McCarthy

[11] **Des. 268,833**

[45] ** **May 3, 1983**

[54] **SHEET-METAL HEAT SINK FOR ELECTRONIC SEMICONDUCTOR DEVICES**

[75] Inventor: **Alfred F. McCarthy**, Belmount, N.H.

[73] Assignee: **Aavid Engineering, Inc.**, Laconia, N.H.

[**] Term: **14 Years**

[21] Appl. No.: **252,032**

[22] Filed: **Apr. 8, 1981**

[51] **Int. Cl.** .... **D13—03**
[52] **U.S. Cl.** **D13/23**
[58] **Field of Search** .... D13/23; 174/16 HS; 357/81; 165/80, 80 A, 80 B

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,670,215	6/1972	Wilkens et al.	174/16 HS X
3,694,703	9/1972	Wilkens et al.	174/16 HS X

OTHER PUBLICATIONS

Instant Information Catalog, Semiconductor Cooling Aids, 1-73, p. 3, Snap-On Heat Sink #296.

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Attorney, Agent, or Firm—James E. Mrose

[57] **CLAIM**

The ornamental design for a sheet-metal heat sink for electronic semiconductor devices, substantially as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a sheet-metal heat sink for electronic semiconductor devices showing my new design; the broken lines being shown for illustrative purposes, only;
FIG. **2** is a front elevational view of the same heat sink;
FIG. **3** is a rear elevational view thereof;
FIG. **4** is a side elevational view thereof, looking toward the right side of the heat sink as it is shown in FIG. **1**;
FIG. **5** is a side elevational view thereof, looking toward the left side of the heat sink as it is shown in FIG. **1**;
FIG. **6** is a top plan view thereof; and
FIG. **7** is a bottom plan view thereof.

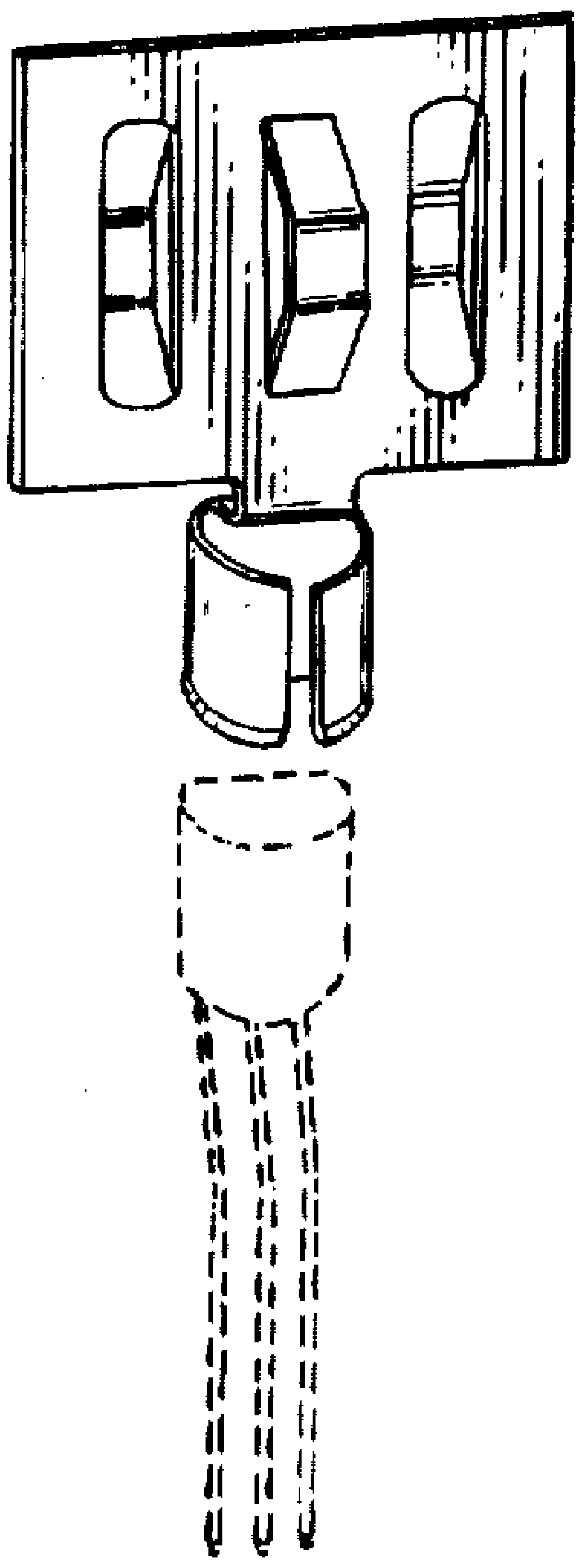

FIG. 1

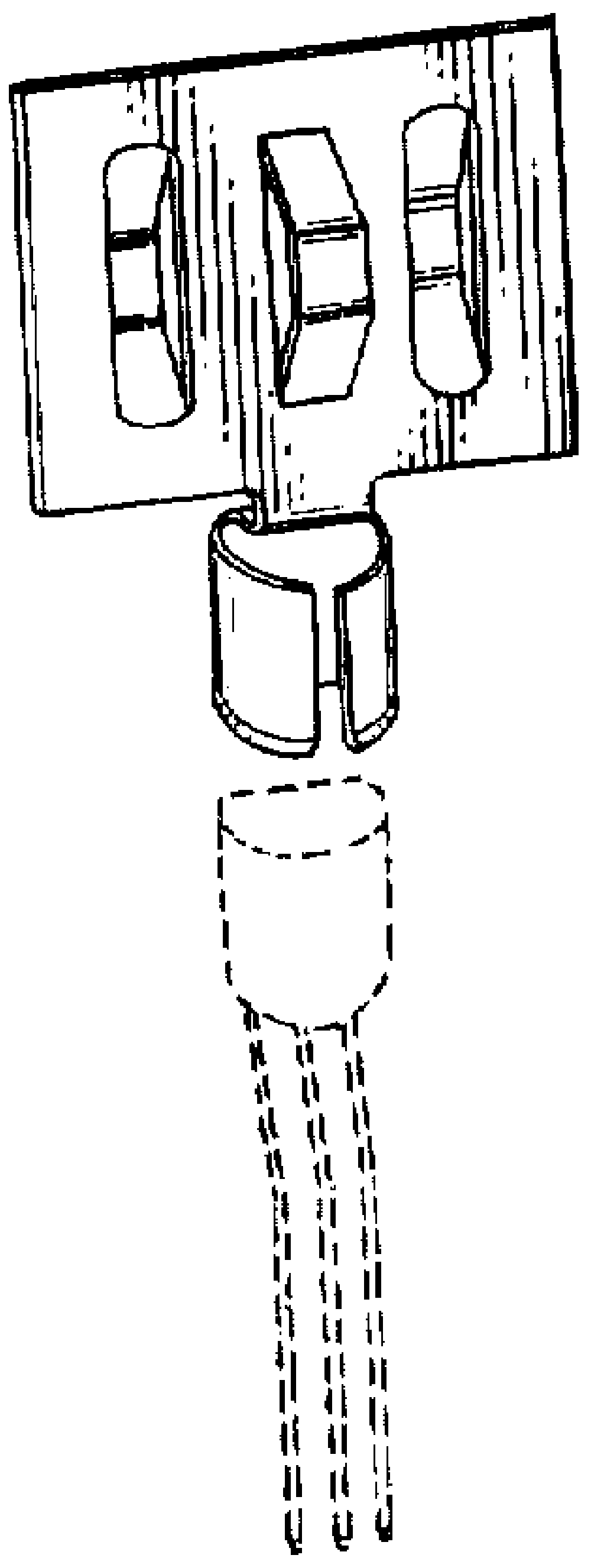

FIG. 2

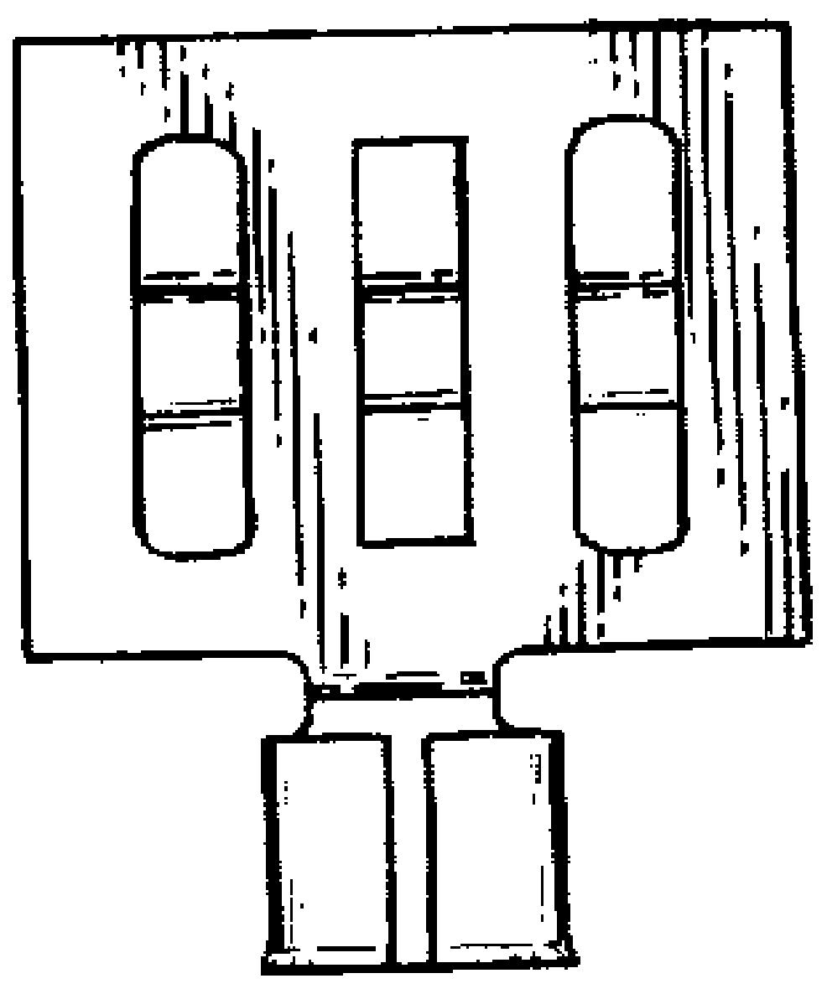

FIG. 3

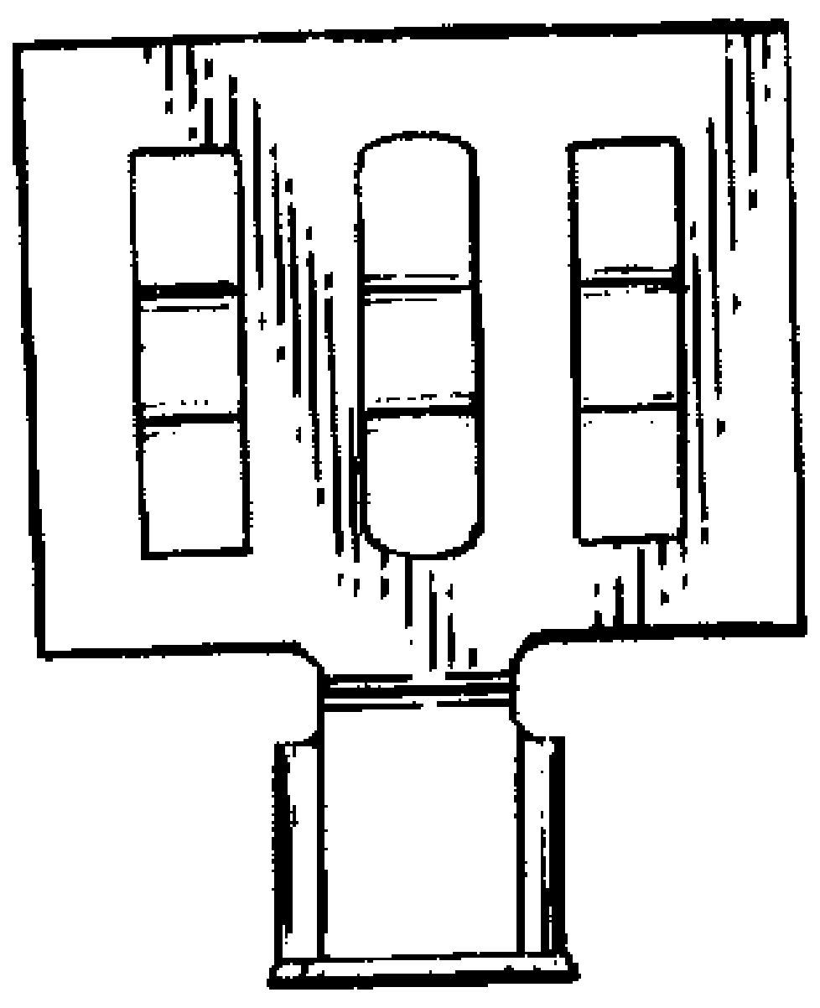

FIG. 4

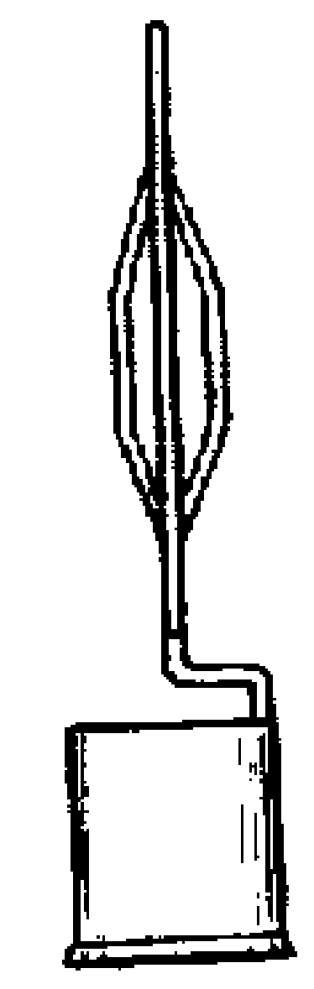

FIG. 5

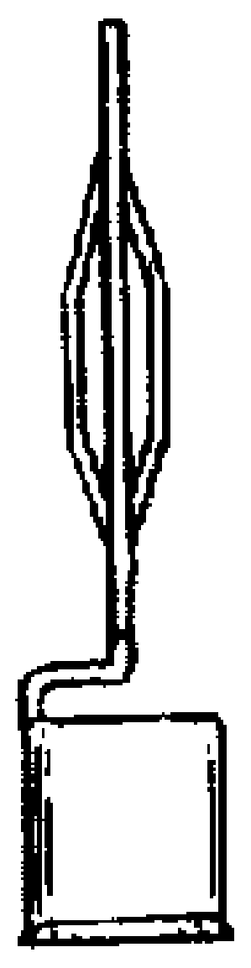

FIG. 6

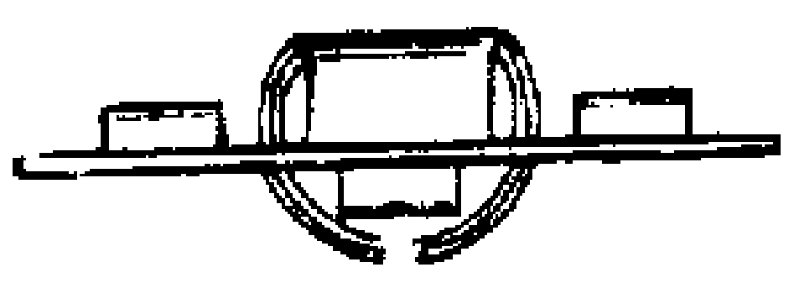

FIG. 7