



US00D403760S

United States Patent [19]

Kodaira et al.

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[54] **ELECTRONIC COMPONENT COOLING APPARATUS**

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[73] Assignee: **Sanyo Denki Co., Ltd., Tokyo, Japan**

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

[21] Appl. No.: **85,272**

[22] Filed: **Mar. 19, 1998**

[51] **LOC (6) Cl.** **23-04**

[52] **U.S. Cl.** **D23/370; D23/379**

[58] **Field of Search** **D23/370, 379; 415/176, 177, 178, 211.2; 361/697, 695, 694; 165/80.3, 121, 122; D14/114**

[56] **References Cited**

U.S. PATENT DOCUMENTS

- 4,513,812 4/1985 Papst et al. .
- 5,002,123 3/1991 Nelson et al. .

- 5,309,983 5/1994 Bailey .
- 5,482,113 1/1996 Agonafer et al. 165/122
- 5,494,098 2/1996 Morosas 165/121
- 5,519,574 5/1996 Kodama et al. .
- 5,615,998 4/1997 Kodama et al. .
- 5,629,834 5/1997 Kodama et al. .
- 5,677,829 10/1997 Clemens 165/80.3

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[57] **CLAIM**

The ornamental design for an electronic component cooling apparatus, as shown.

DESCRIPTION

FIG. 1 is a front view of an electronic component cooling apparatus showing our new design; FIG. 2 is a left side view thereof; FIG. 3 is a top plan view thereof; FIG. 4 is a rear view thereof; FIG. 5 is a right side view thereof; and, FIG. 6 is a bottom plan view thereof.

1 Claim, 2 Drawing Sheets

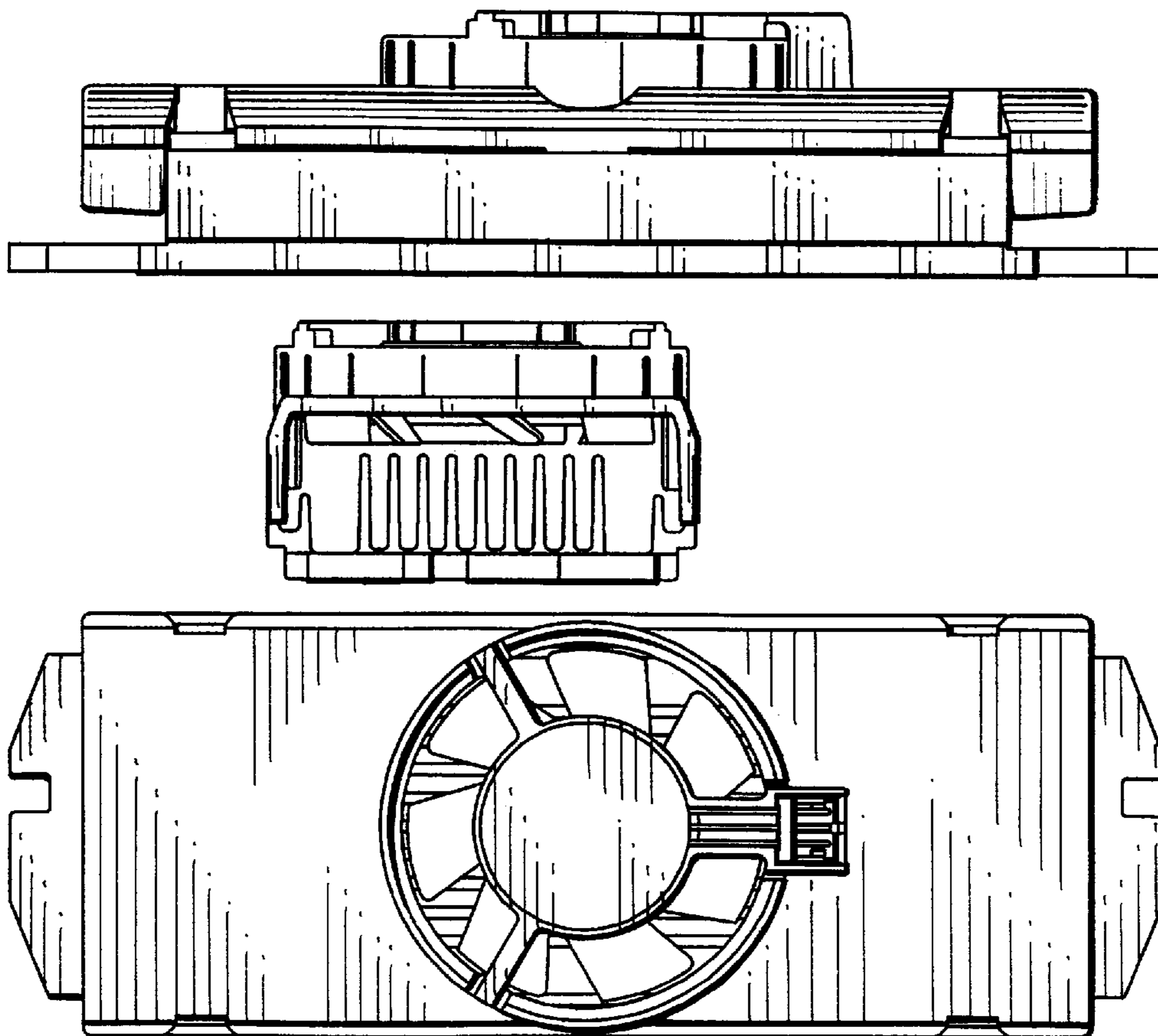


Fig. 1

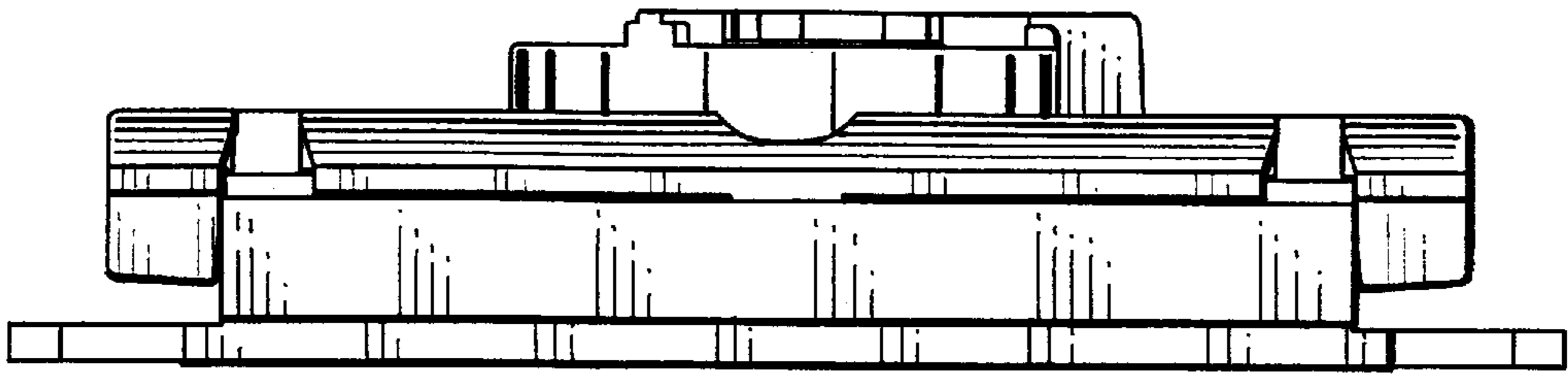


Fig. 2

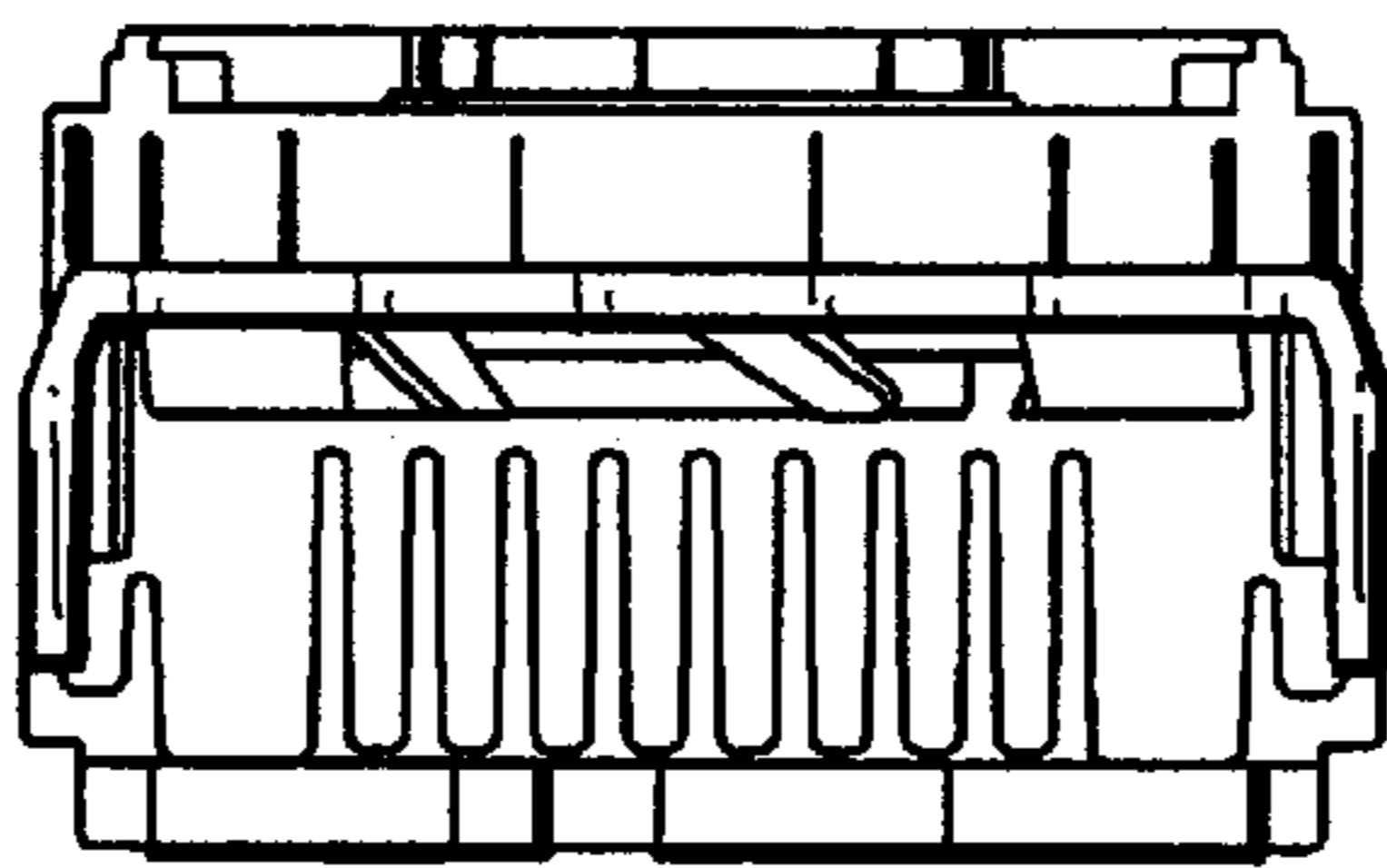


Fig. 3

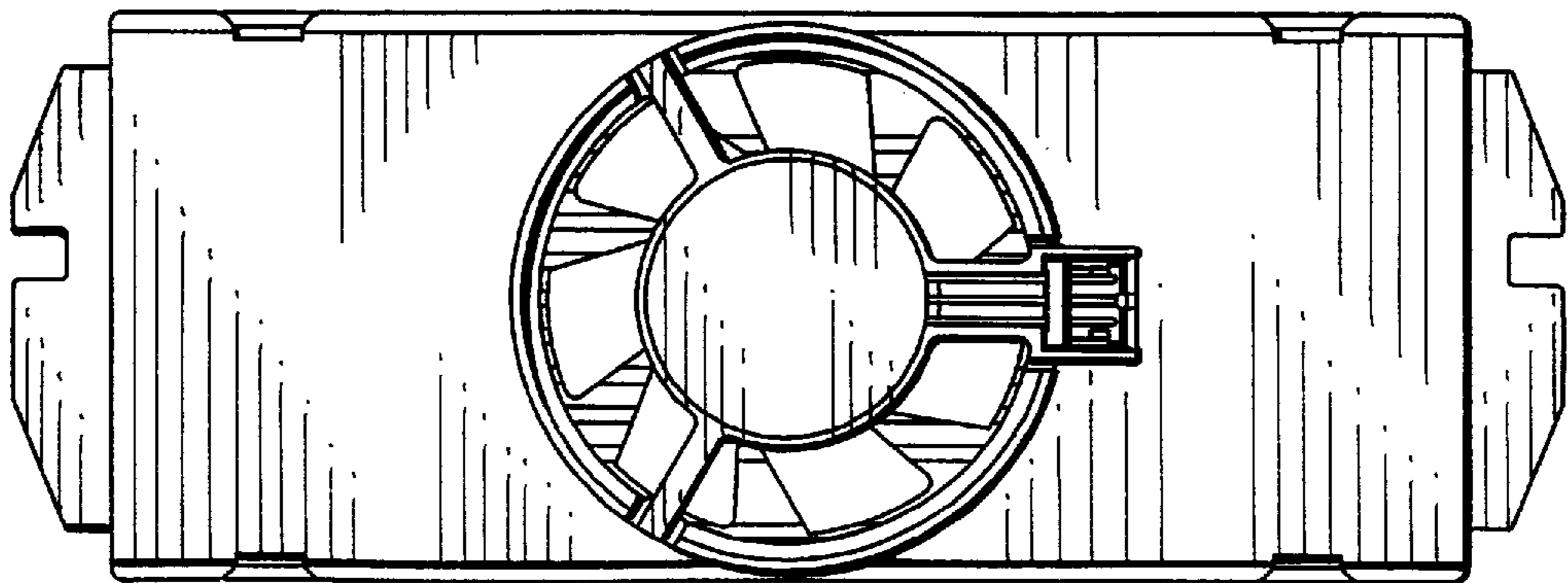


Fig. 4

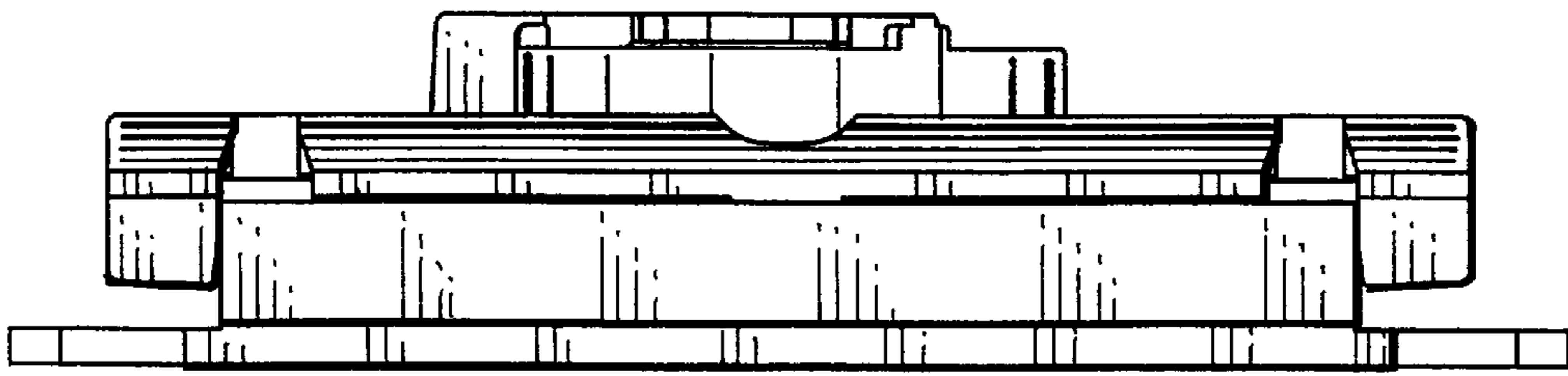


Fig. 5

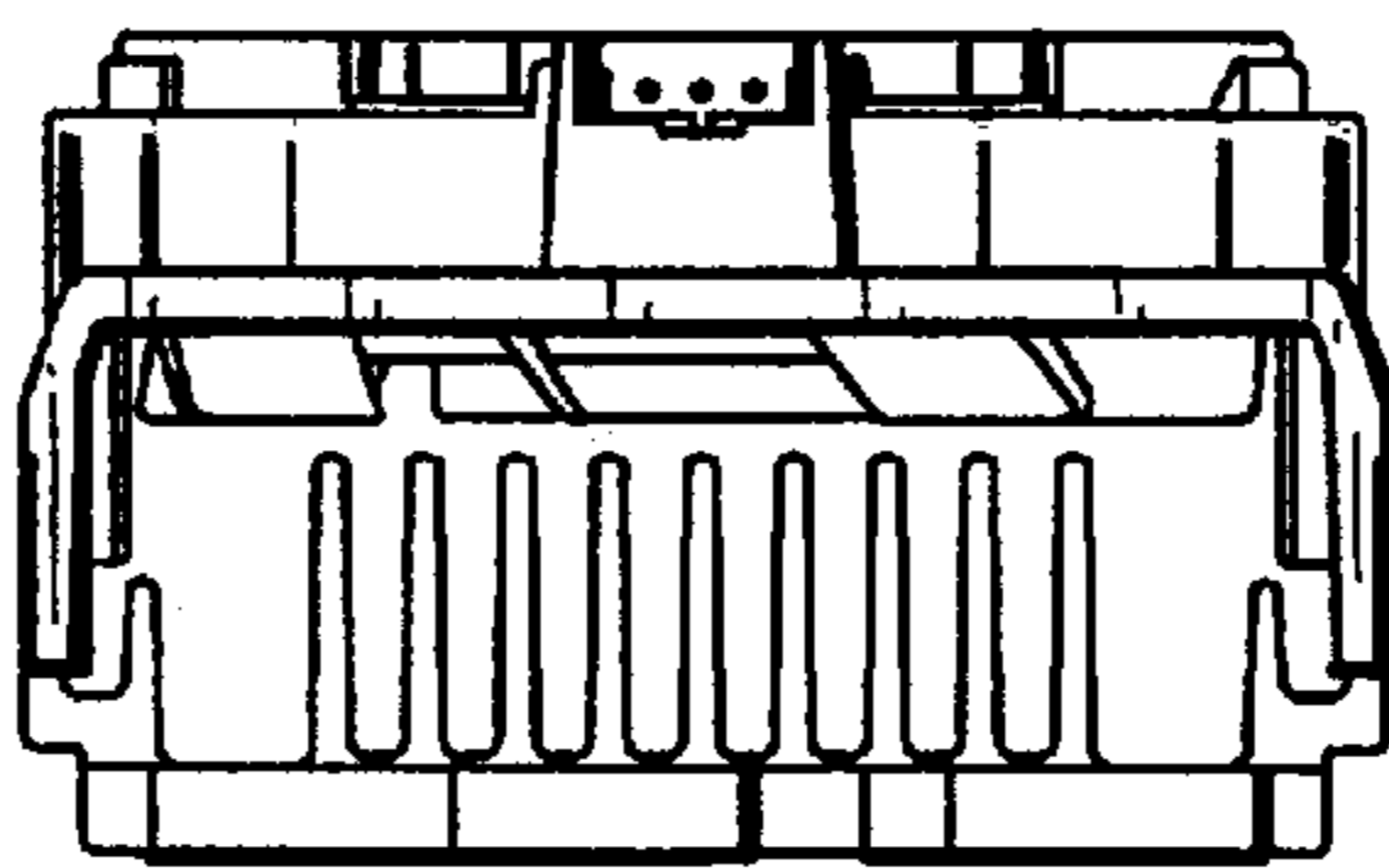


Fig. 6

