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(12) **United States Design Patent**
Nishio et al.

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(54) **ELECTRICAL CONNECTOR**

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(**) Term: **14 Years**

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(30) **Foreign Application Priority Data**

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(51) **LOC (7) Cl.** **13-03**

(52) **U.S. Cl.** **D13/147**

(58) **Field of Search** D13/146, 147,
D13/154; 439/352, 353, 357, 358, 582,
610, 677-681, 686, 687

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,580,268 A * 12/1996 Miyazawa 439/352

D416,233 S * 11/1999 Tsai D13/153

D427,566 S * 7/2000 Nishio et al. D13/147

D432,500 S * 10/2000 Nishio et al. D13/147

6,280,252 B1 * 8/2001 Huang 439/610

D452,217 S * 12/2001 Shimojyo D13/147

* cited by examiner

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(57) **CLAIM**

The ornamental design for an electrical connector, as shown.

DESCRIPTION

FIG. 1 is a perspective view of the top, front and right side of an electrical connector showing our new design;

FIG. 2 is a perspective view of the bottom, rear and left side thereof;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a rear elevational view thereof;

FIG. 5 is a left side elevational view thereof;

FIG. 6 is a right side elevational view thereof;

FIG. 7 is a top plan view thereof; and,

FIG. 8 is a bottom plan view thereof.

1 Claim, 3 Drawing Sheets

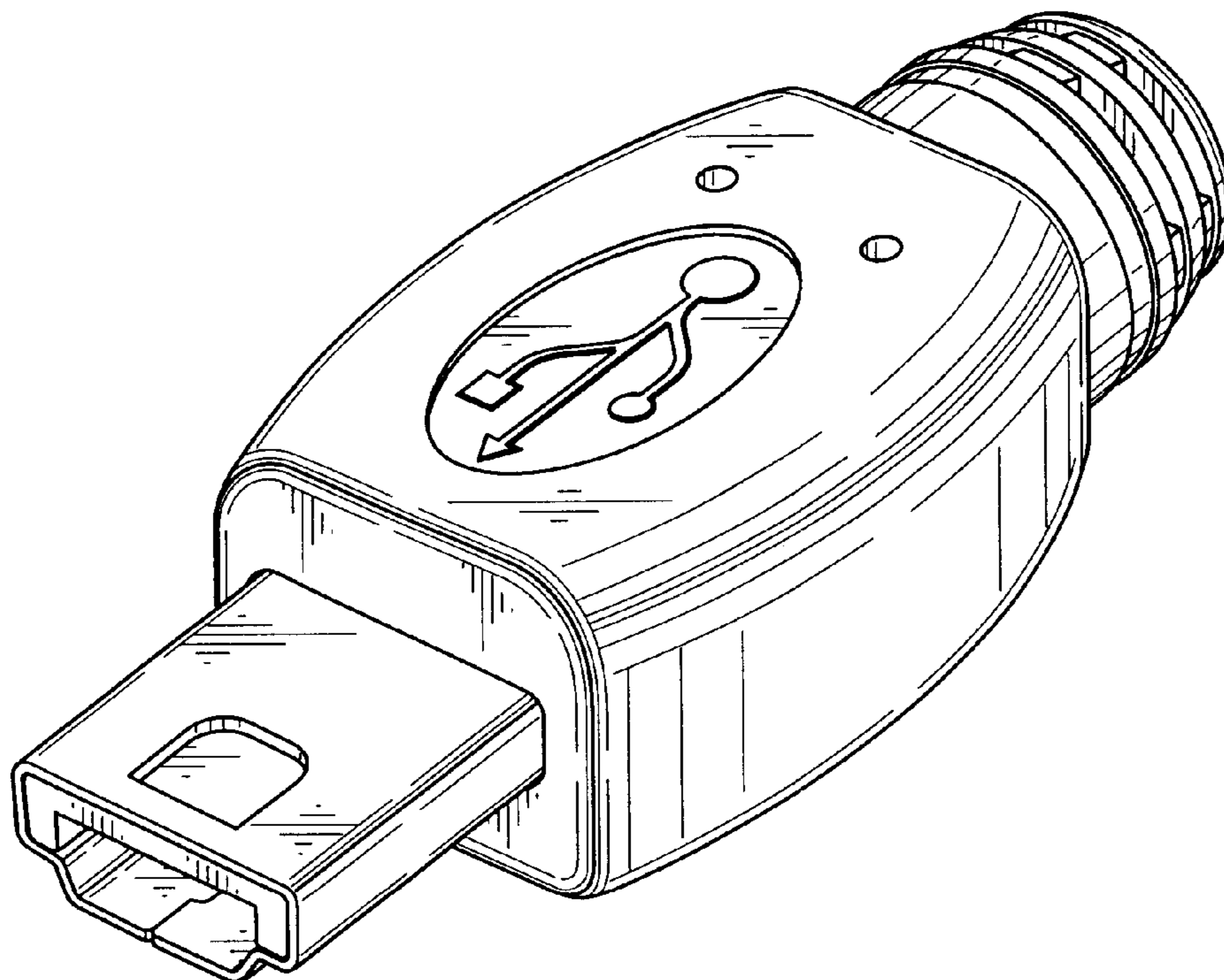


FIG. 1

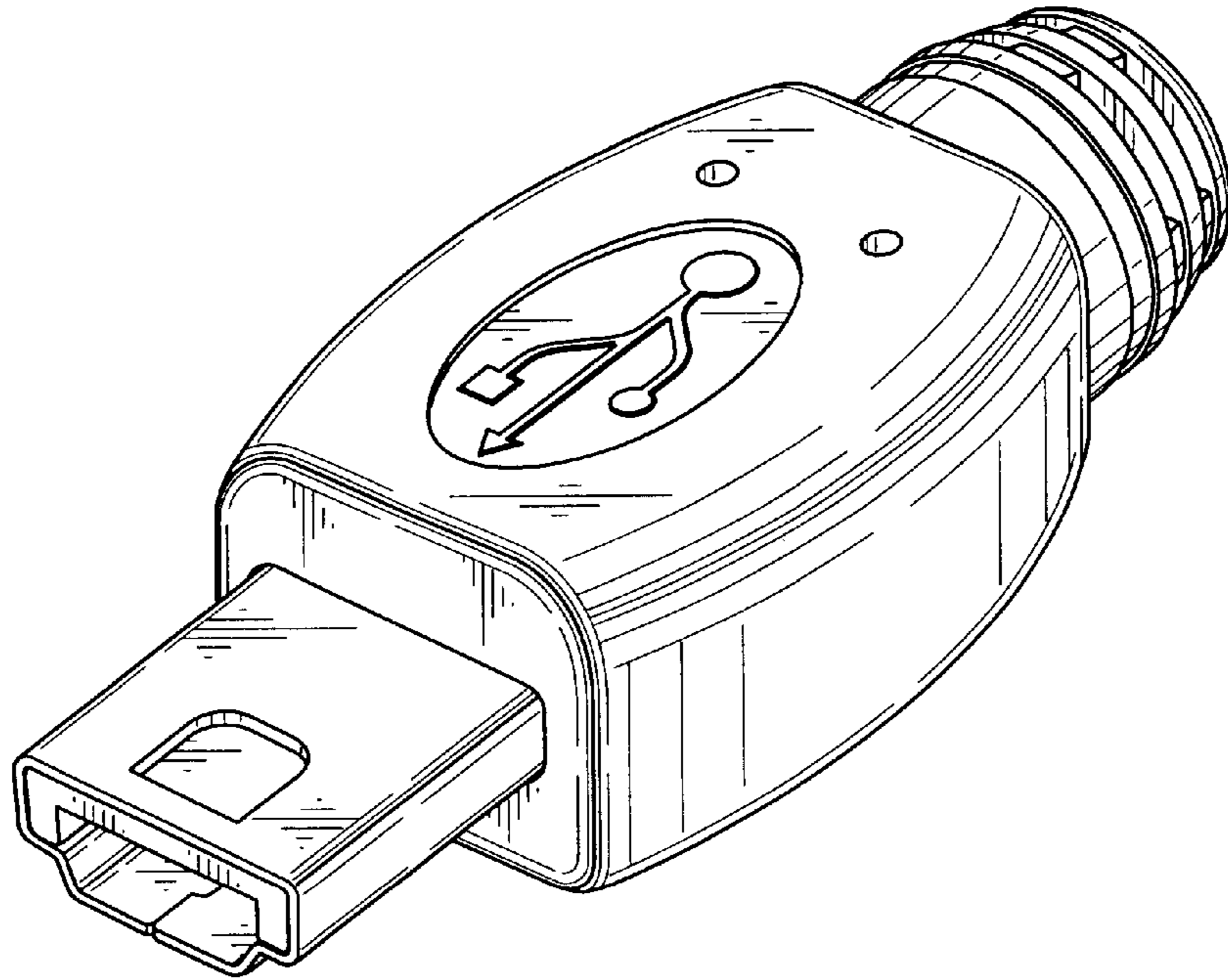


FIG. 2

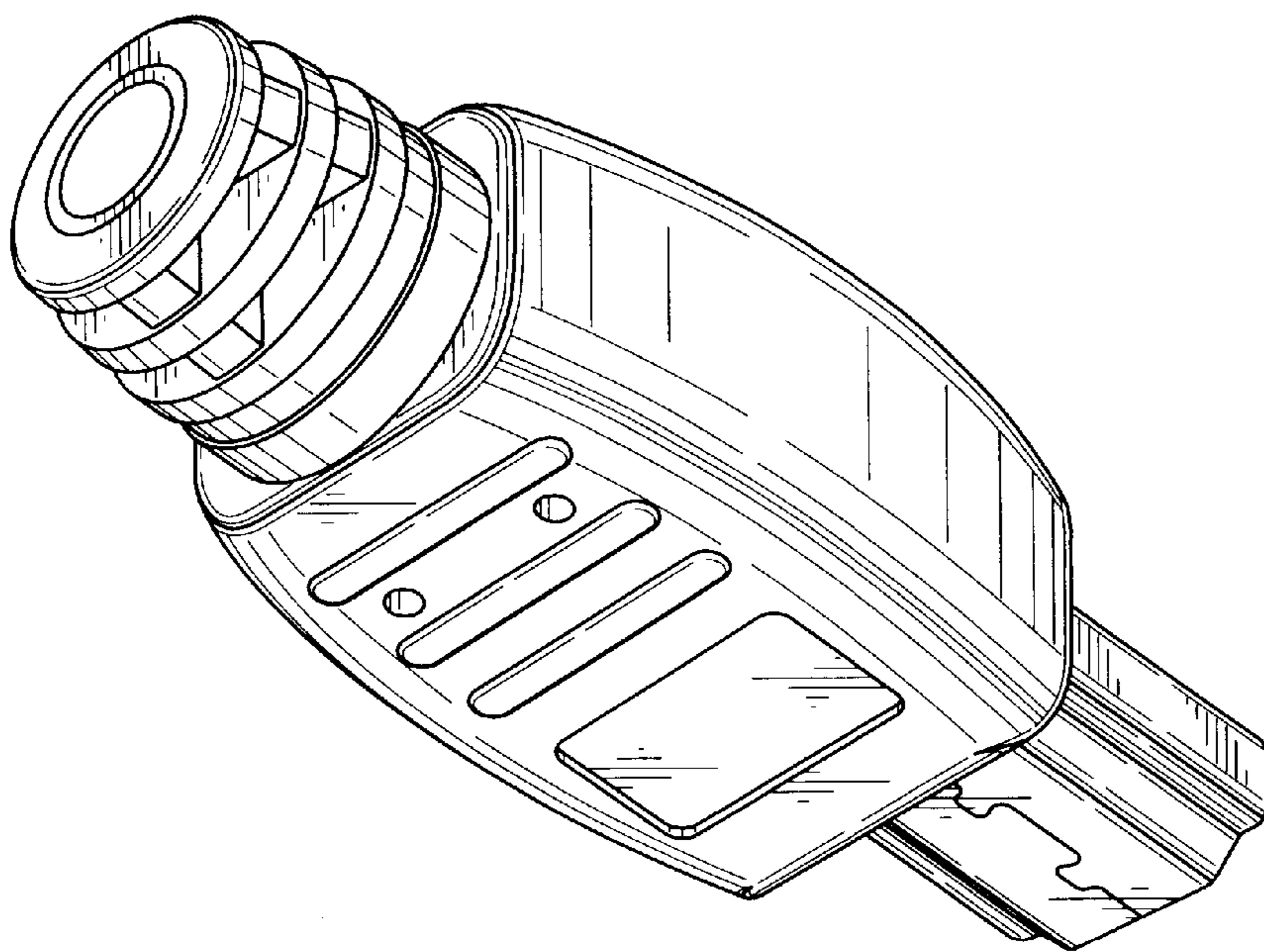


FIG. 3

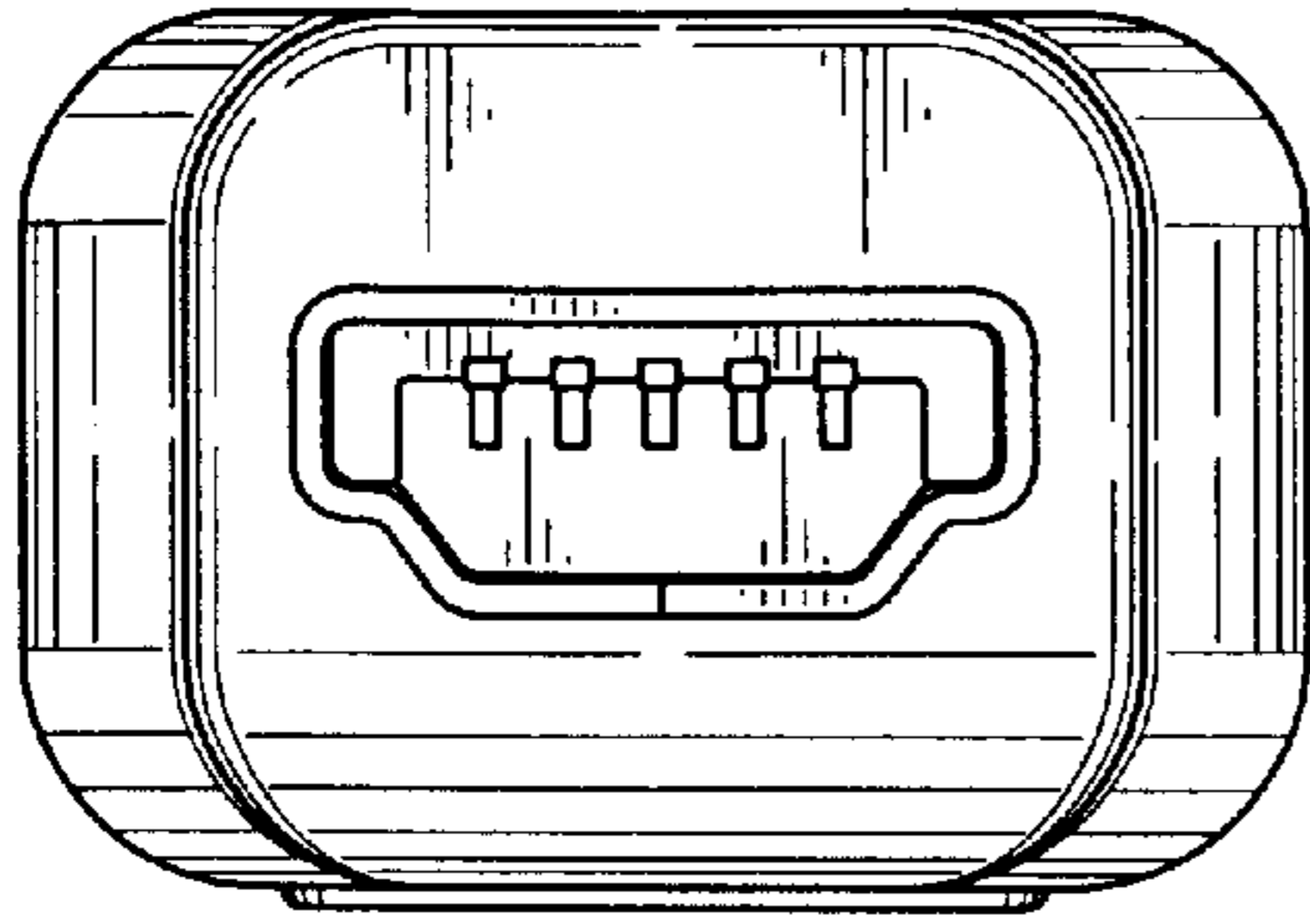


FIG. 4

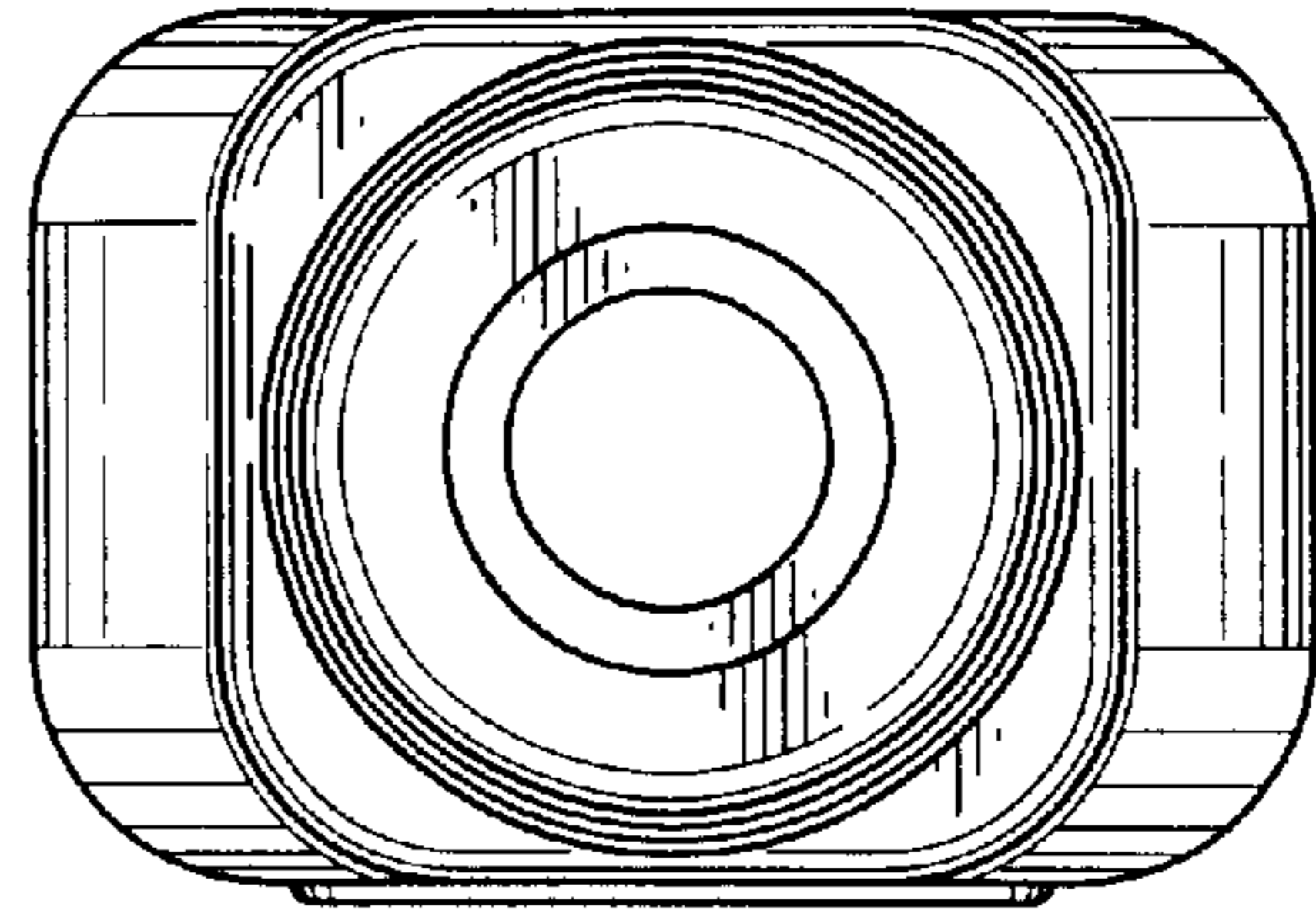


FIG. 5

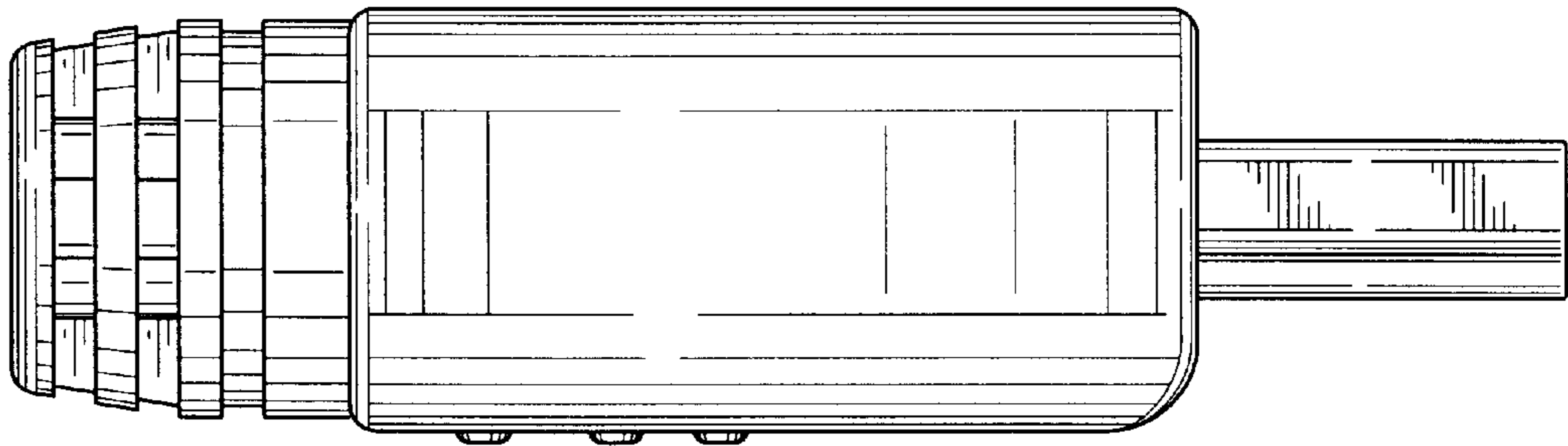


FIG. 6

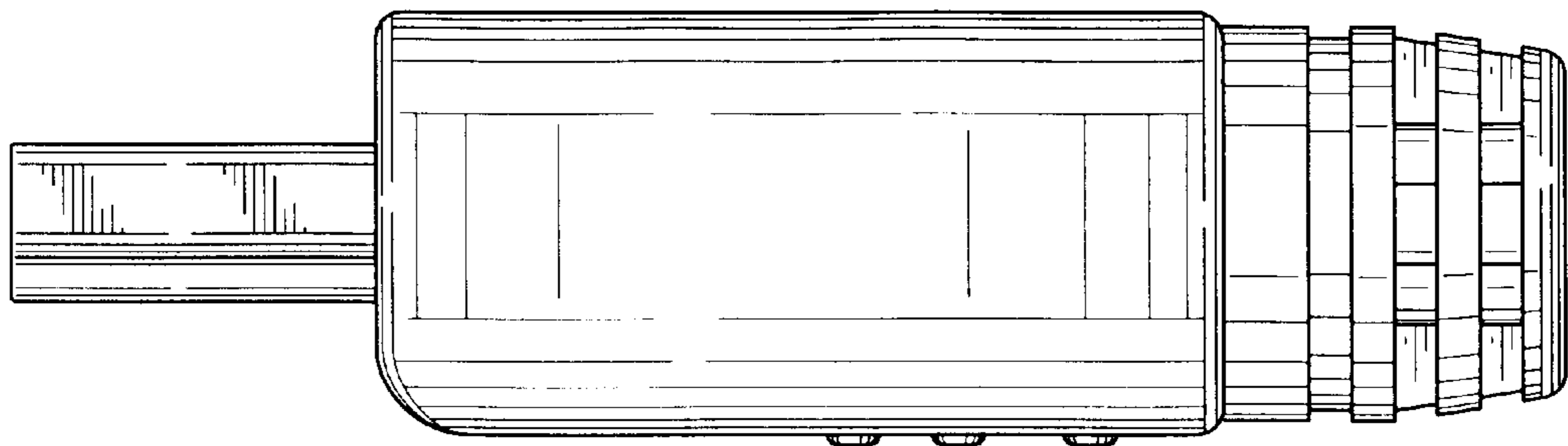


FIG. 7

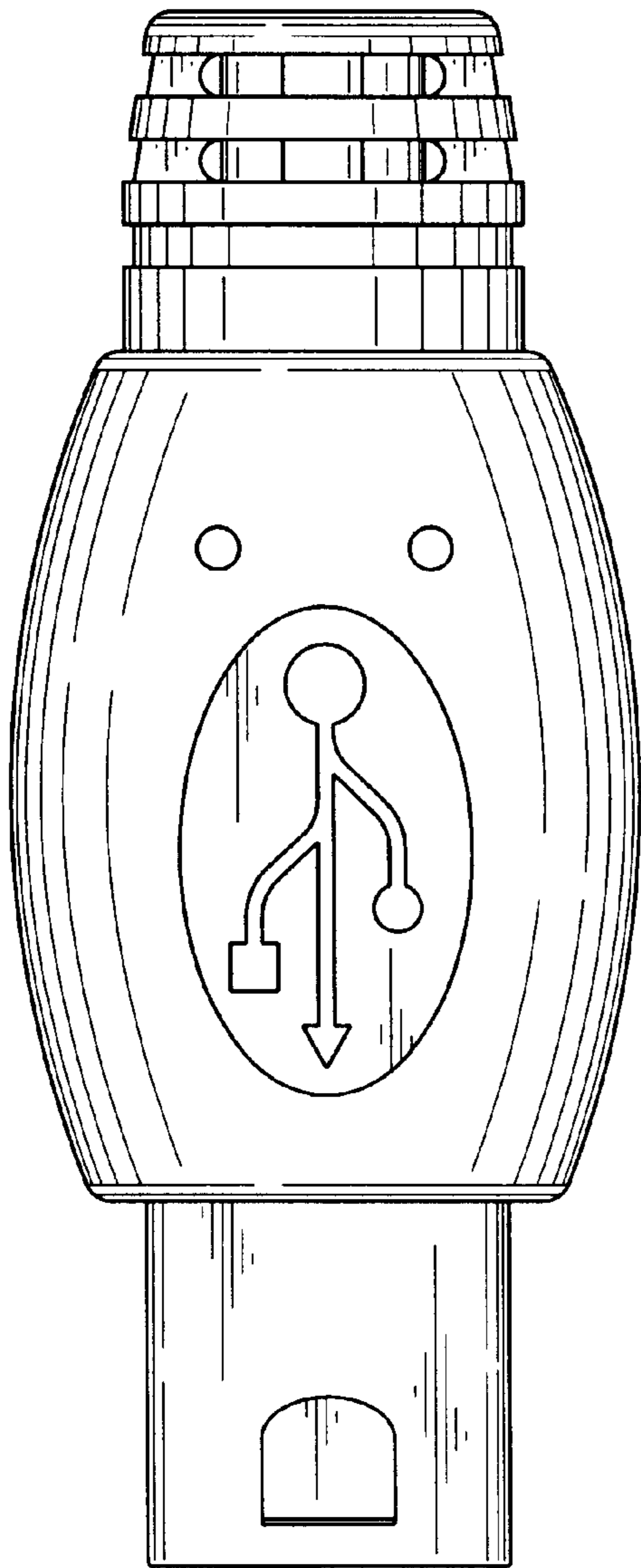


FIG. 8

