

US00D471522S

## (12) United States Design Patent (10) Patent No.:

US D471,522 S \*\* Mar. 11, 2003 (45) Date of Patent: **Azuma** 

ELECTRICAL CONNECTOR

Inventor: Yumiko Azuma, Tokyo (JP)

Assignee: **KEL Corporation**, Tokyo (JP)

14 Years Term:

Appl. No.: 29/162,737

Filed: Jun. 19, 2002

Related U.S. Application Data

Continuation of application No. 29/134,601, filed on Dec. 22, 2000, now abandoned.

#### (30)Foreign Application Priority Data

149
<b>4</b> 50
<b>4</b> 51
<b>1</b> 52
03
47
47;
3 <del>7</del>

### **References Cited** (56)

## U.S. PATENT DOCUMENTS

(List continued on next page.)

Primary Examiner—Joel Sincavage

(74) Attorney, Agent, or Firm—Robert W. J. Usher

CLAIM

Thé ornamental design for an electrical connector, as shown and described.

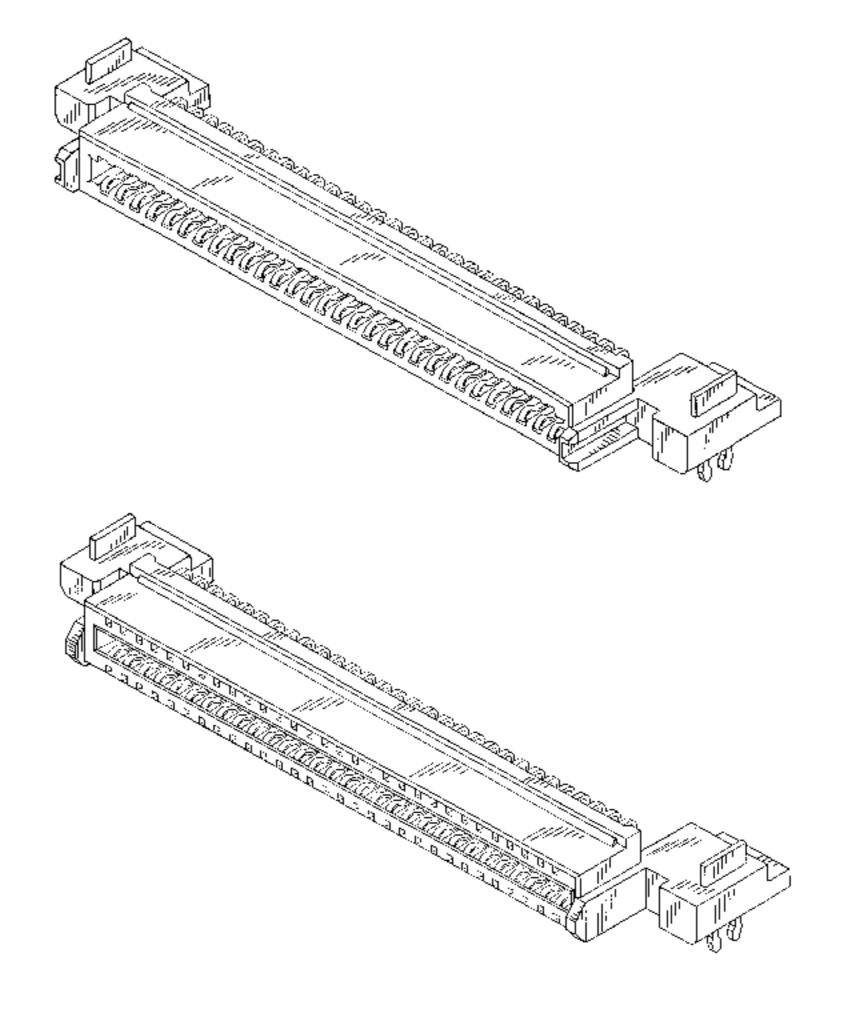
## **DESCRIPTION**

- FIG. 1 is a perspective view from above and right side of the connector according to a first embodiment, (a corresponding view from the left side being a mirror image);
- FIG. 2 is a front view of the connector according to the first embodiment.
- FIG. 3 is a right side view of the connector according to the first embodiment, (a left side view being a mirror image).
- FIG. 4 is a top view of the connector according to the first embodiment.
- FIG. 5 is a bottom view of the connector according to the first embodiment.
- FIG. 6 is a rear view of the connector according to the first embodiment.

- FIG. 7 is a sectional view along 7—7 of FIG. 2 of the connector according to the first embodiment.
- FIG. 8 is a perspective view from above and right side of the connector according to a second embodiment, (a corresponding view from the left side being a mirror image).
- FIG. 9 is a front view of the connector according to the second embodiment.
- FIG. 10 is a right side view of the connector according to the second embodiment, (a left side view being a mirror image).
- FIG. 11 is a top view of the connector according to the second embodiment.
- FIG. 12 is a bottom view of the connector according to the second embodiment.
- FIG. 13 is a rear view of the connector according to the second embodiment.
- FIG. 14 is a sectional view along 14—14 of FIG. 9 of the connector according to the second embodiment.
- FIG. 15 is a perspective view from above and a right side of the connector according to a third embodiment, (a corresponding view from the left side being a mirror image).
- FIG. 16 is a front view of the connector according to the third embodiment.
- FIG. 17 is a right side view of the connector according to the third embodiment, (a left side view being a mirror image). FIG. 18 is a top view of the connector according to the third embodiment.
- FIG. 19 is a bottom view of the connector according to the third embodiment.
- FIG. 20 is a rear view of the connector according to the third embodiment.
- FIG. 21 is a sectional view along 21—21 of FIG. 16 of the connector according to the third embodiment.
- FIG. 22 is a perspective view from above and a right side of the connector according to a fourth embodiment, (a corresponding view from the left side being a mirror image).
- FIG. 23 is a front view of the connector according to the fourth embodiment.
- FIG. 24 is a right side view of the connector according to the fourth embodiment, (a left side view being a mirror image). FIG. 25 is a top view of the connector according to the fourth embodiment.
- FIG. 26 is a bottom view of the connector according to the fourth embodiment.
- FIG. 27 is a rear view of the connector according to the fourth embodiment; and,
- FIG. 28 is a sectional view along 28—28 of FIG. 23 of the connector according to the fourth embodiment.

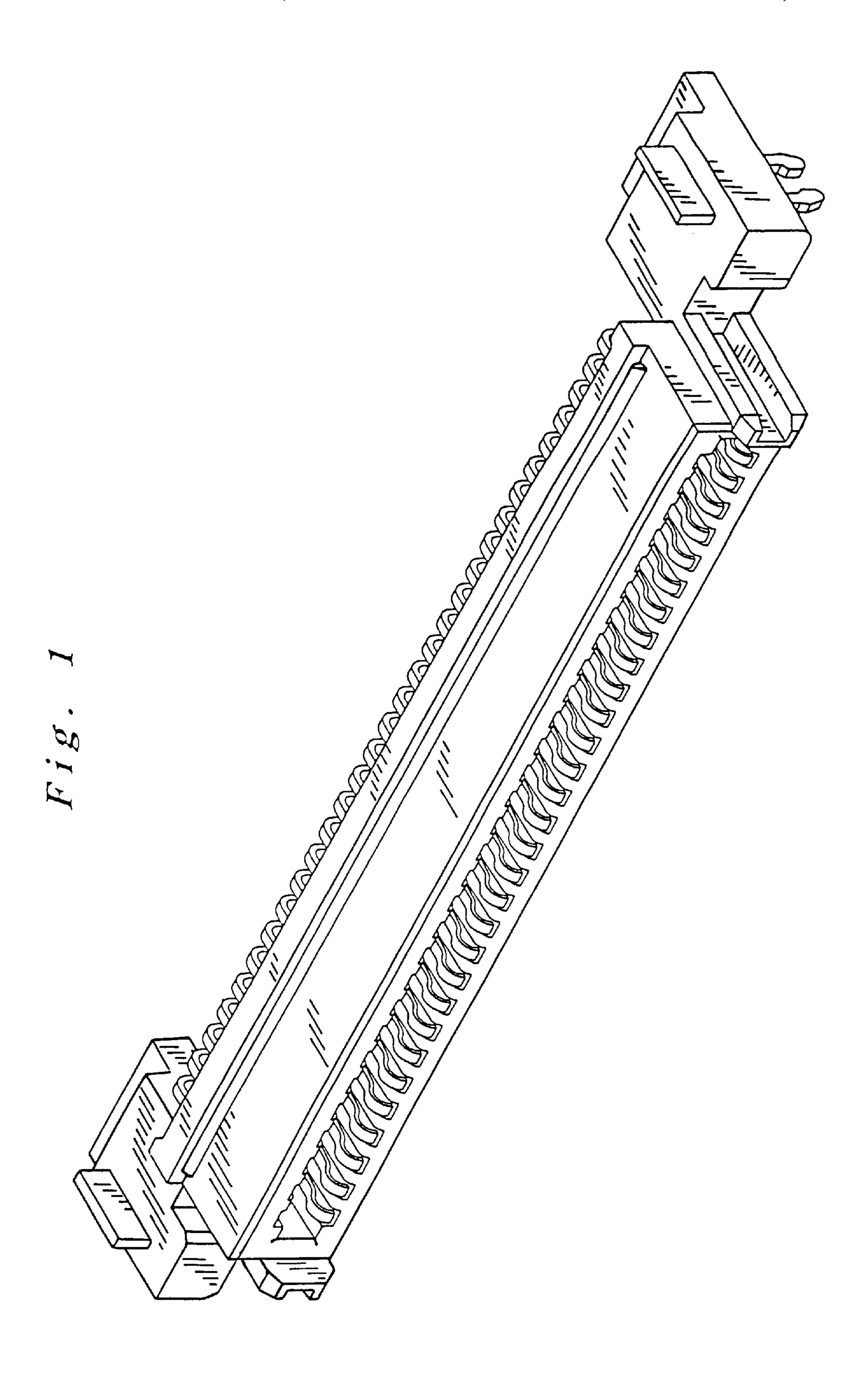
  1 Claim, 28 Drawing Sheets

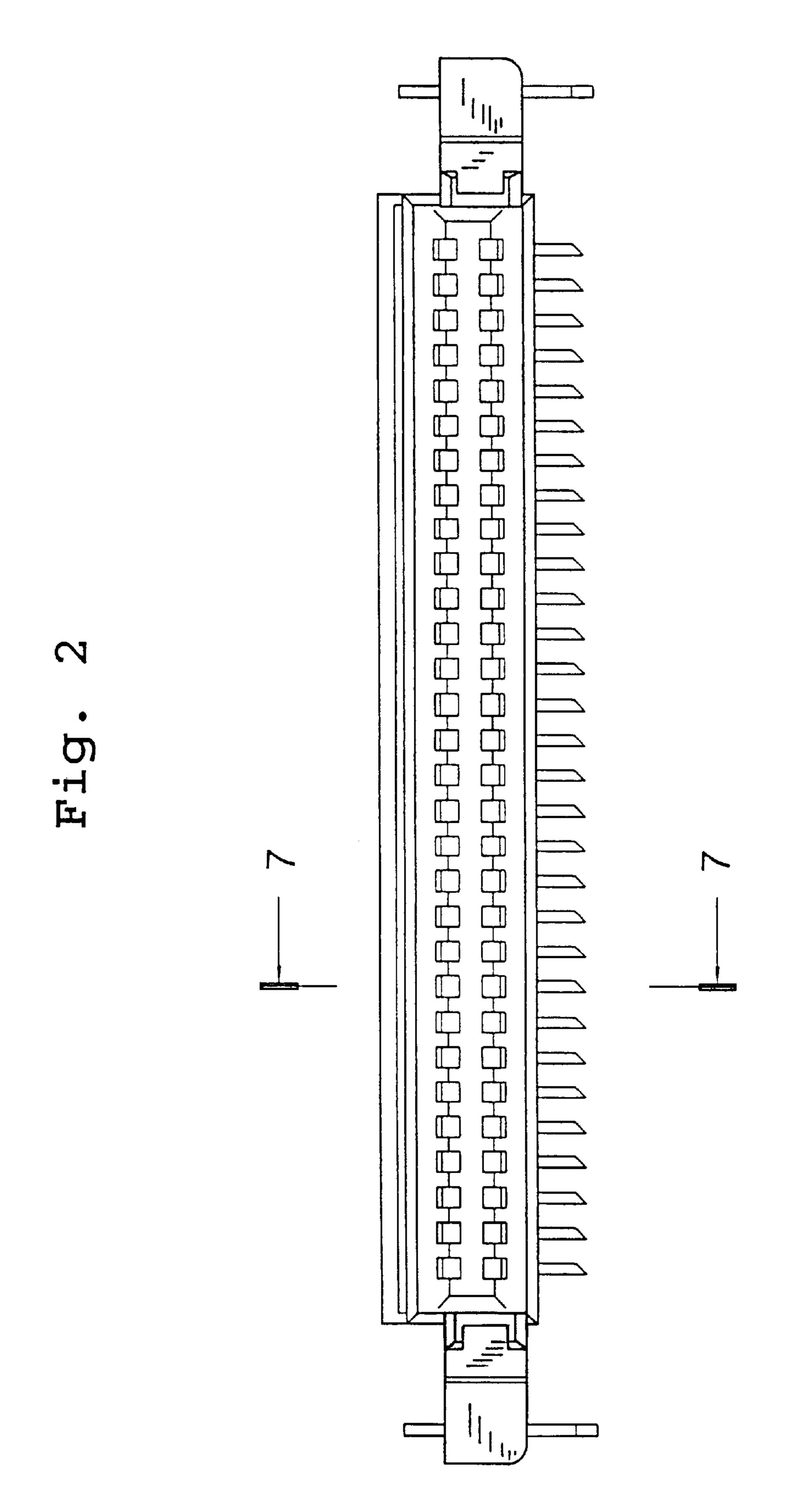


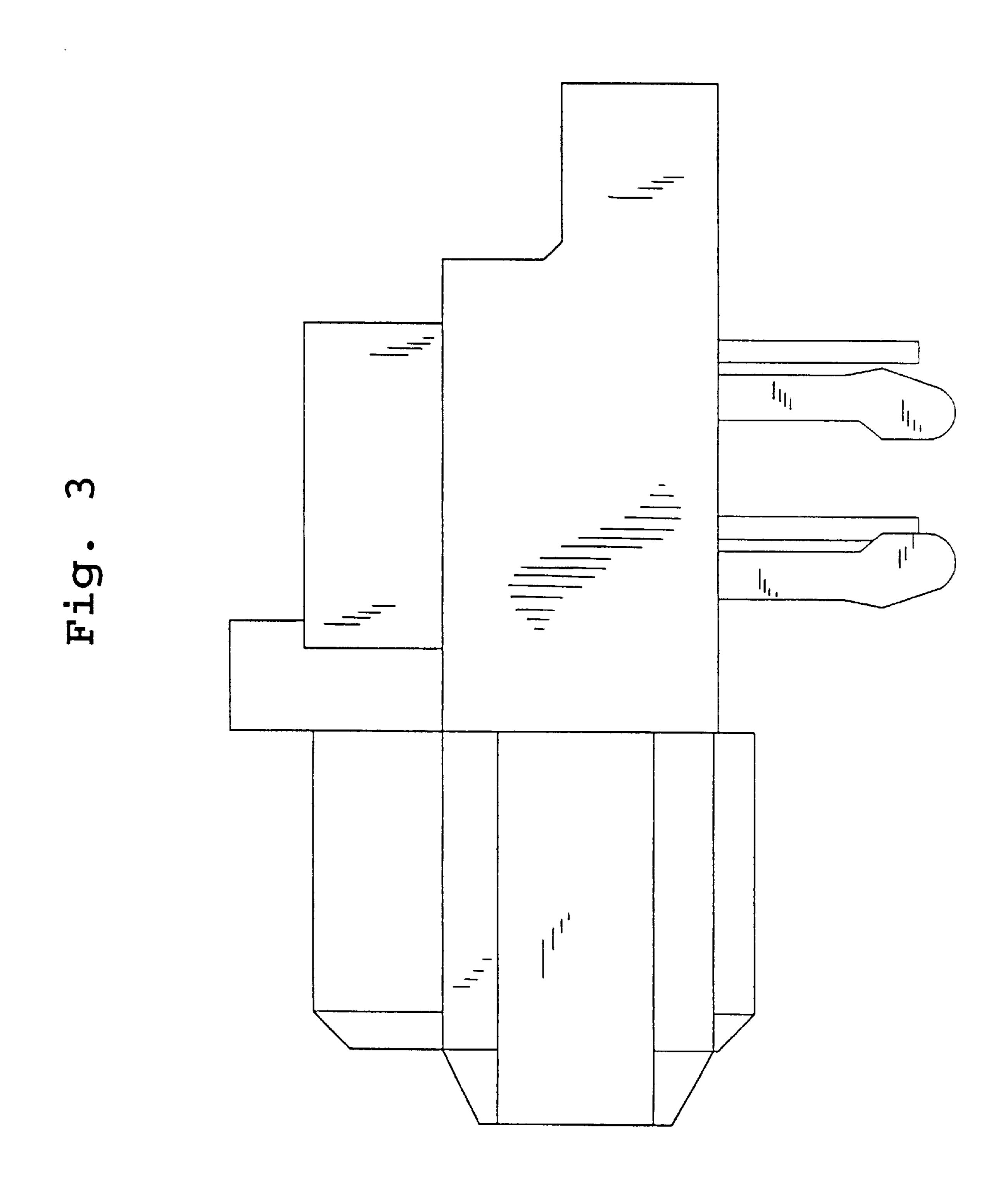


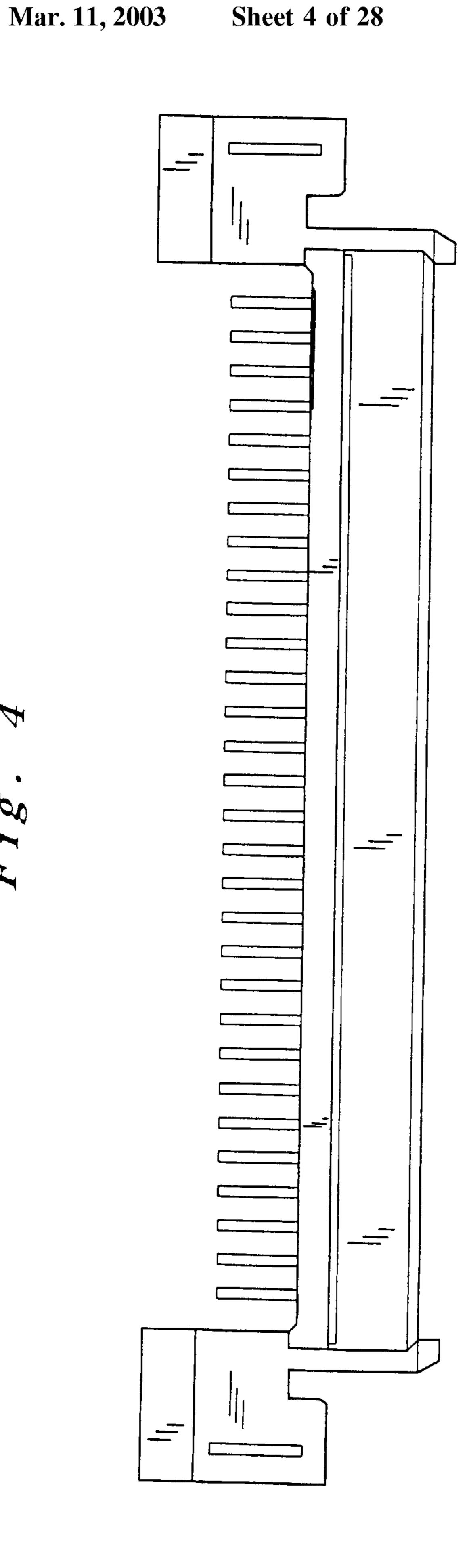
# US D471,522 S Page 2

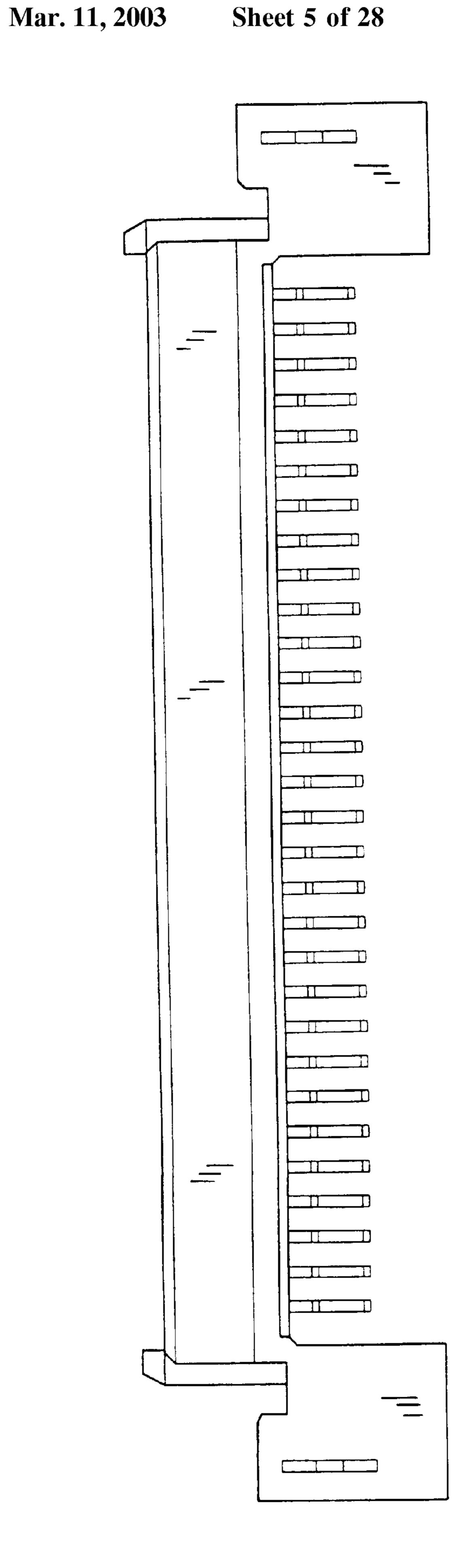
U.S. PATENT	DOCUMENTS	D418,479 S *	1/2000	Chiou D13/147
5 010 515 A + 5/1000	T_1.11	D425,865 S *	5/2000	Chiou D13/147
5,213,515 A * 5/1993 .	Ishikawa et al 439/79	6 083 046 A *	7/2000	Wu et al 439/607
5,340,321 A * 8/1994	Hashiguchi et al 439/567 X	0,005,040 71	7/2000	να οι αι 432/007
5,533,901 A * 7/1996	Hunt et al 439/79			
D416,865 S * 11/1999	Chiou D13/147	* cited by examiner		



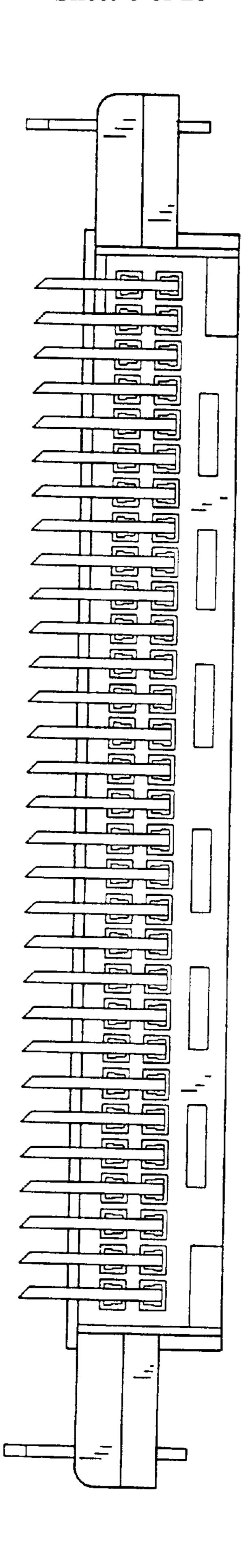


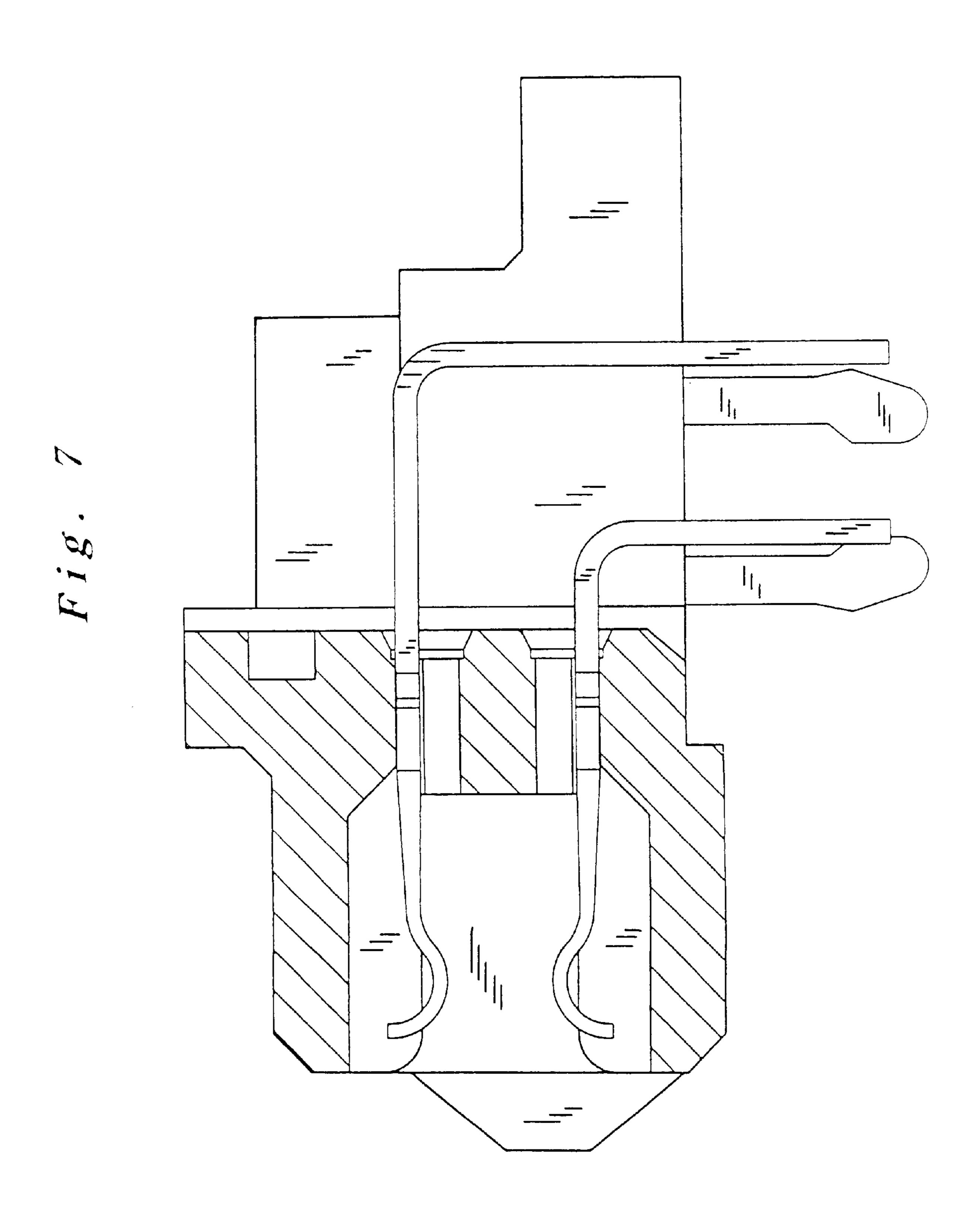


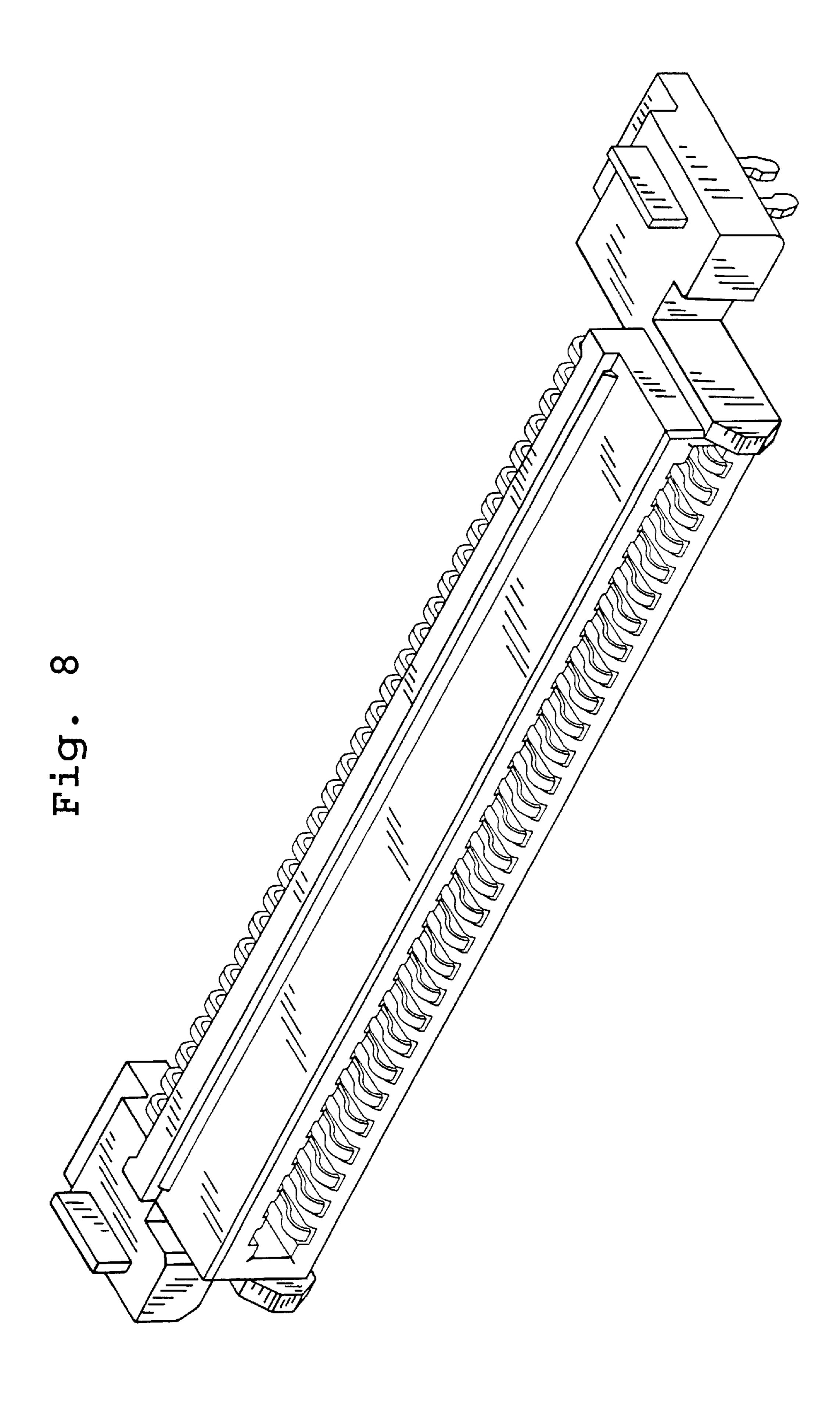


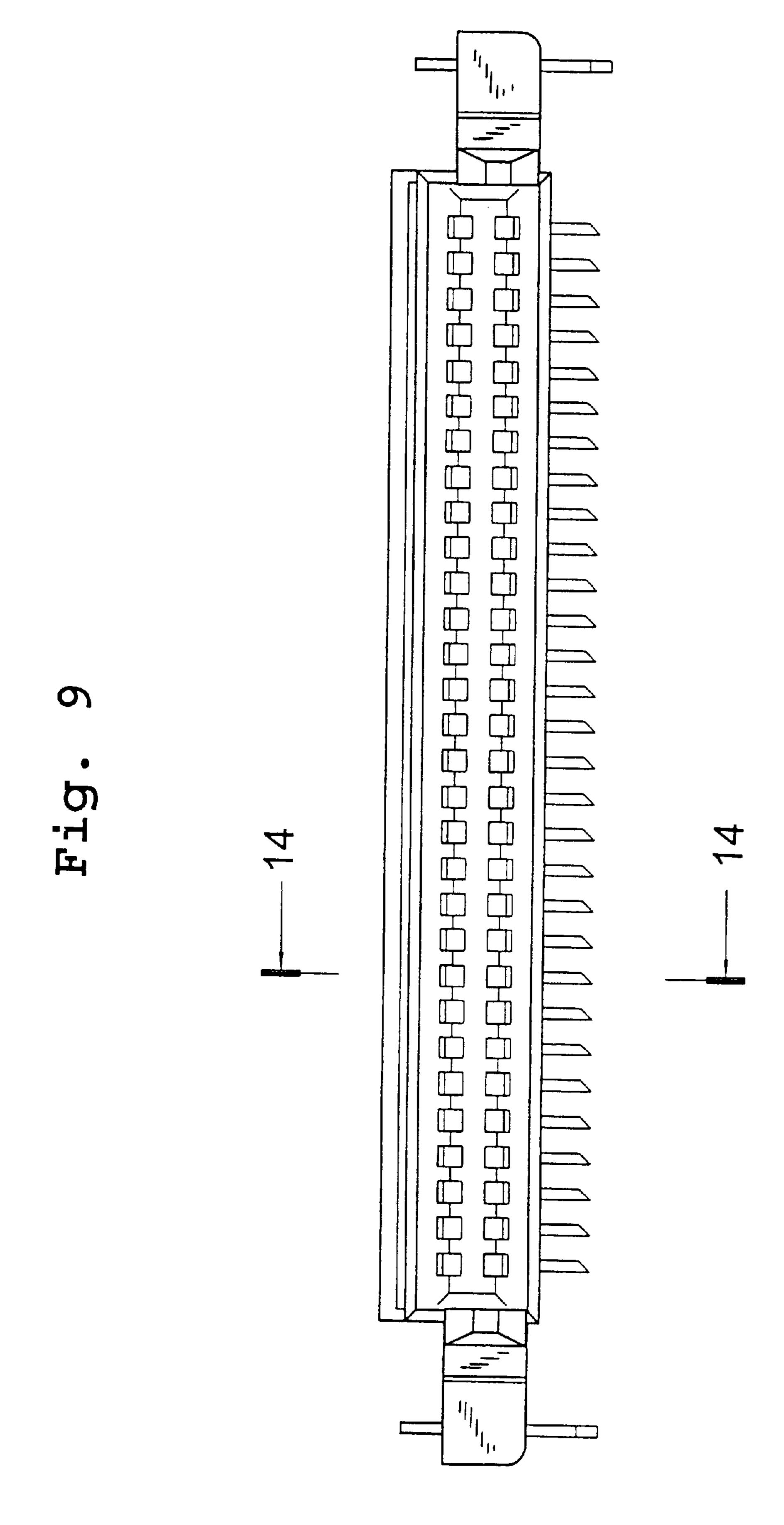


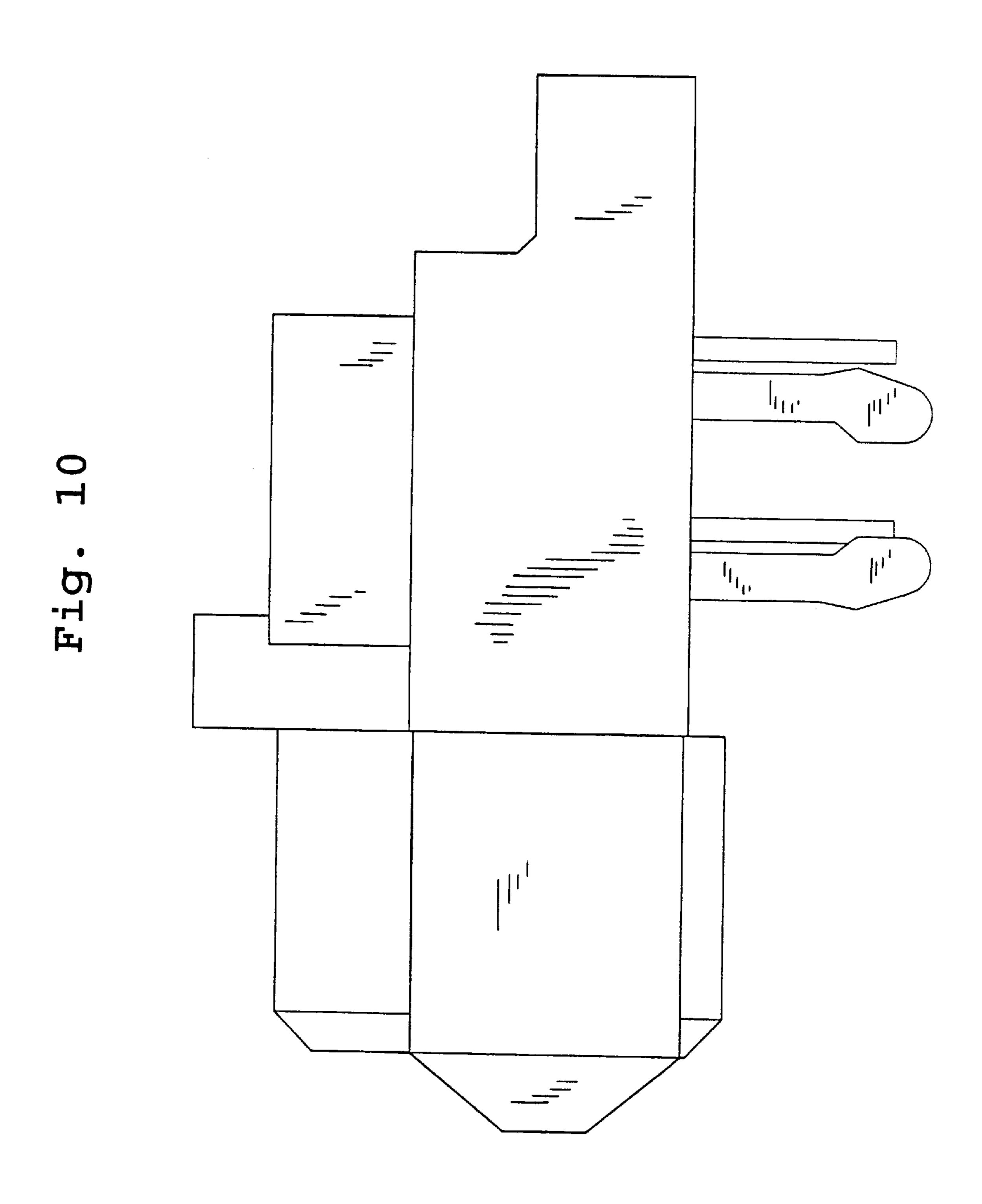
Hig. 6



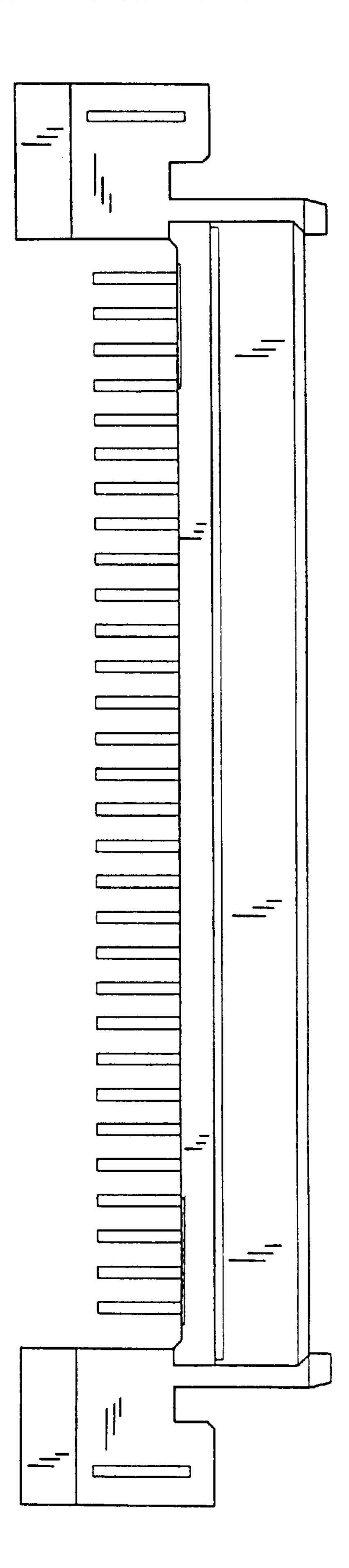




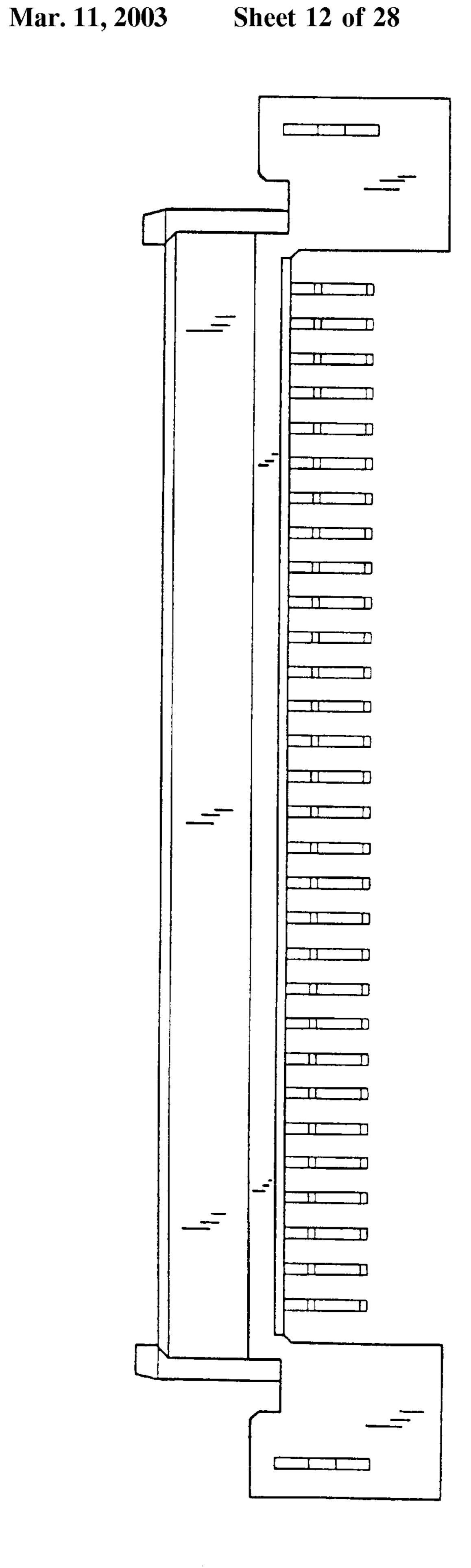




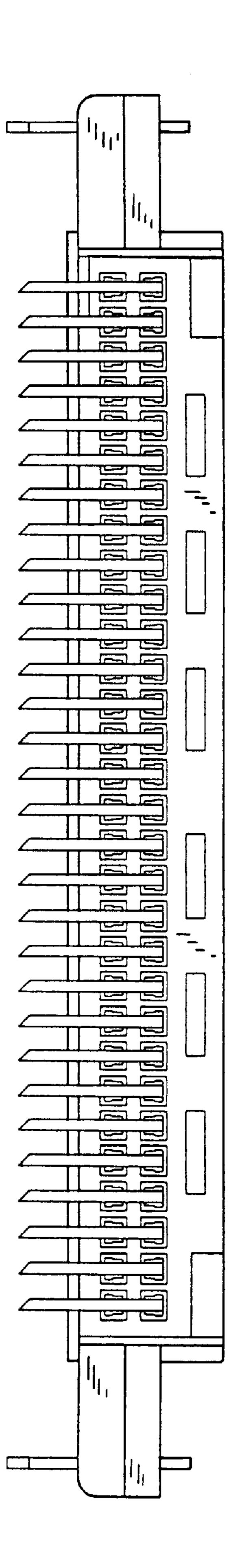
US D471,522 S

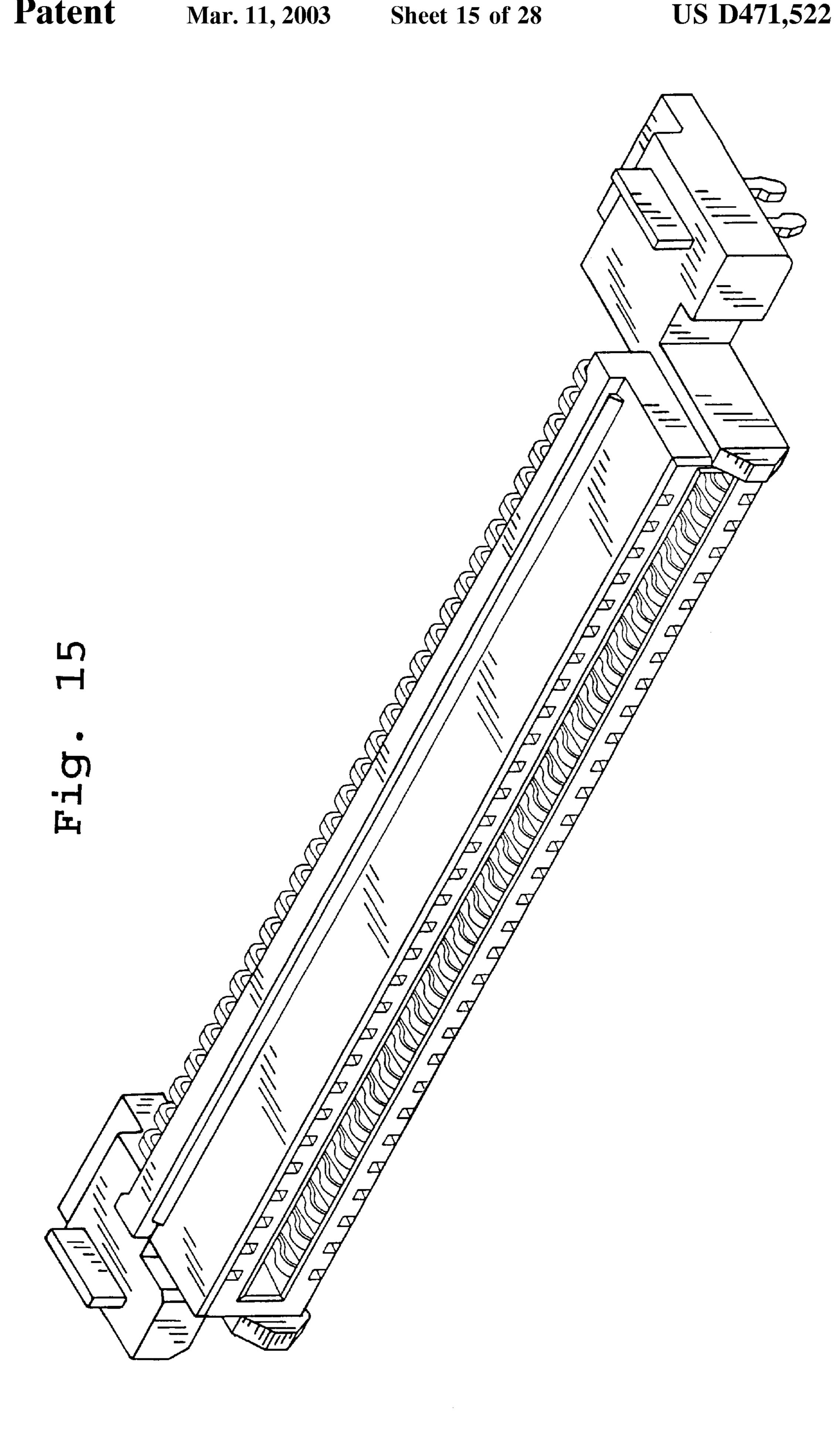


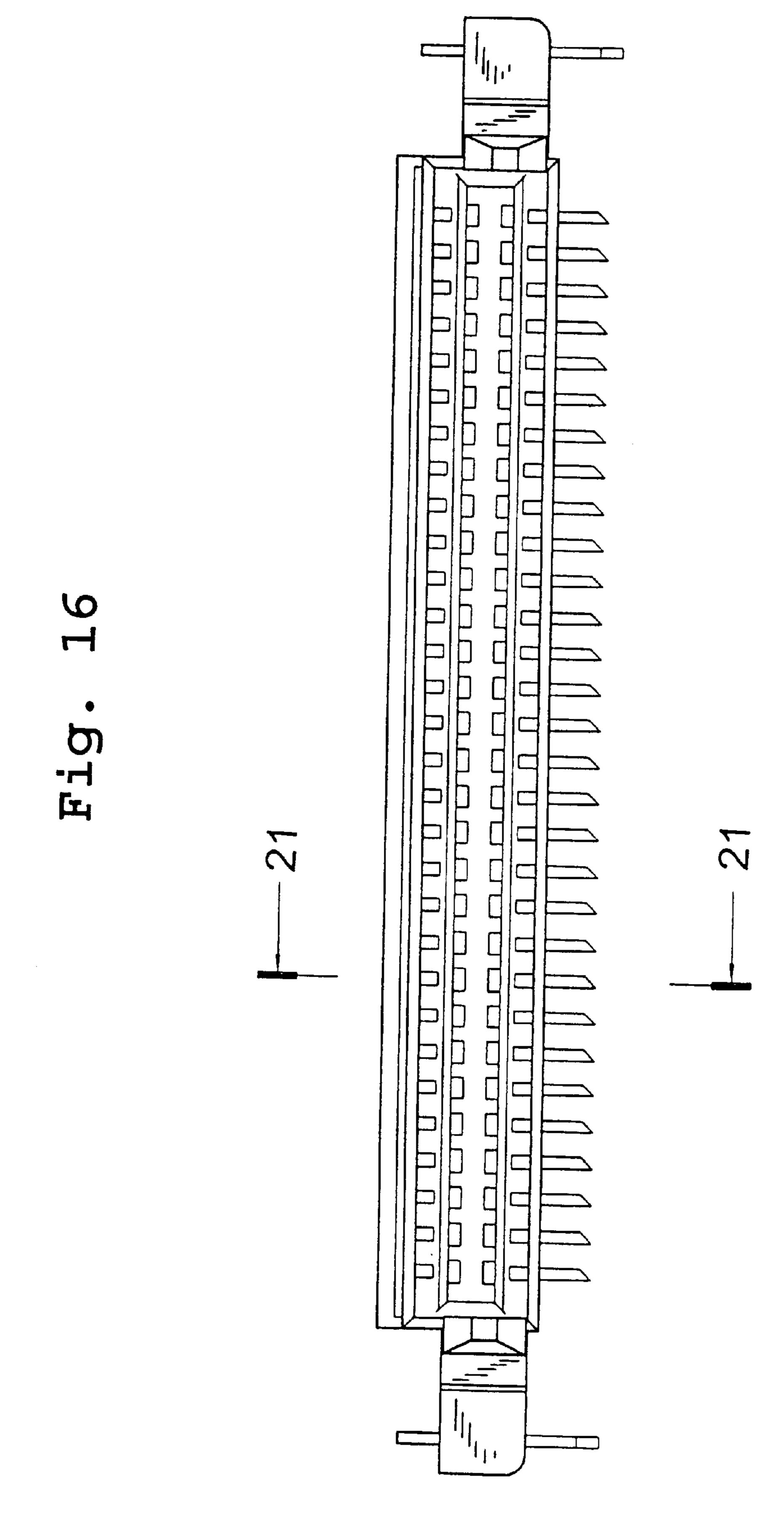
US D471,522 S

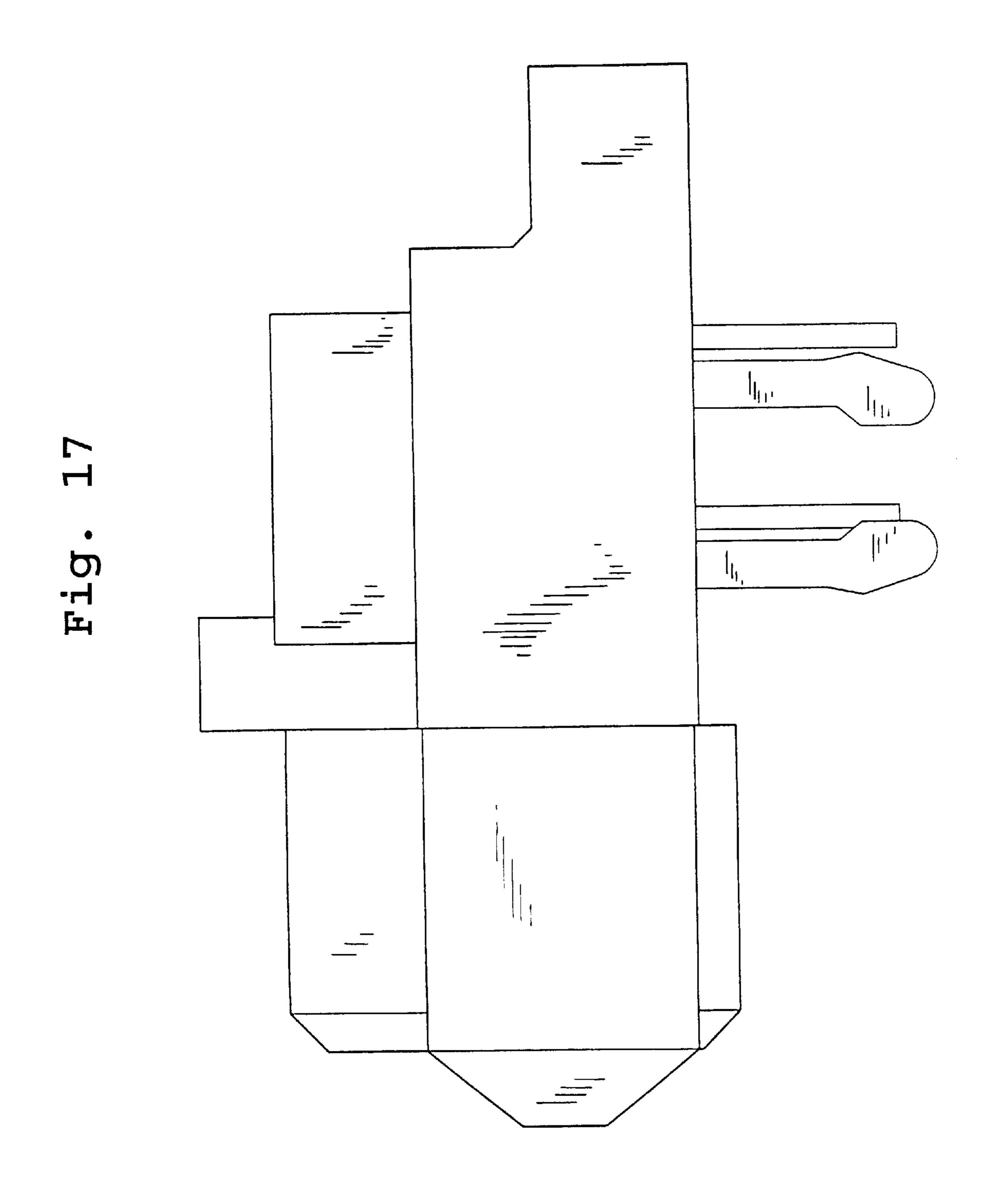


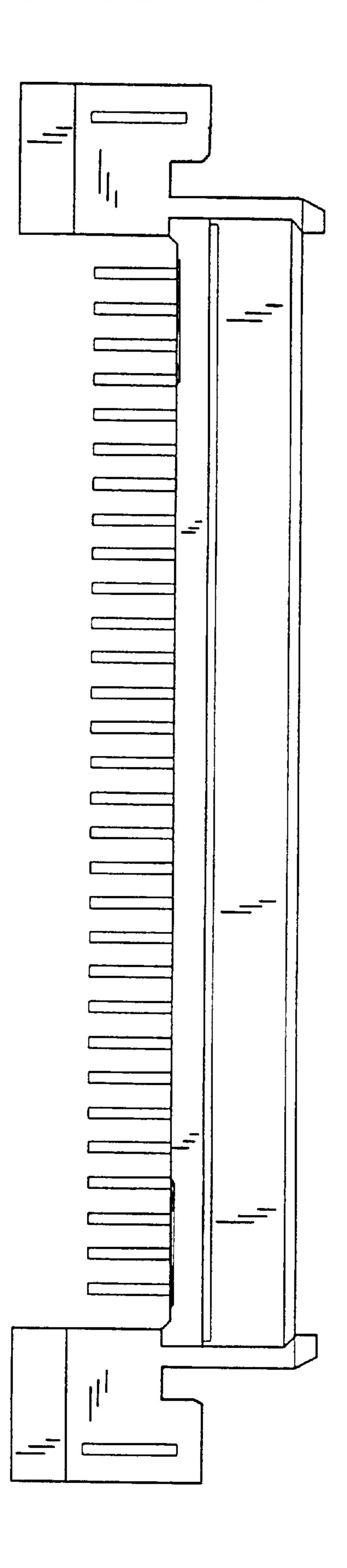
US D471,522 S

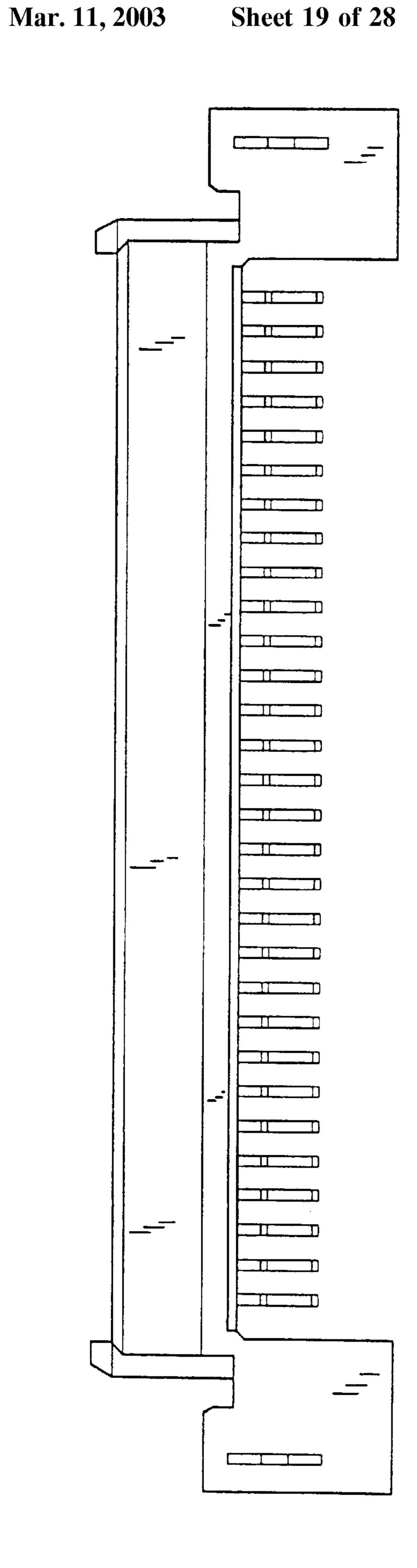




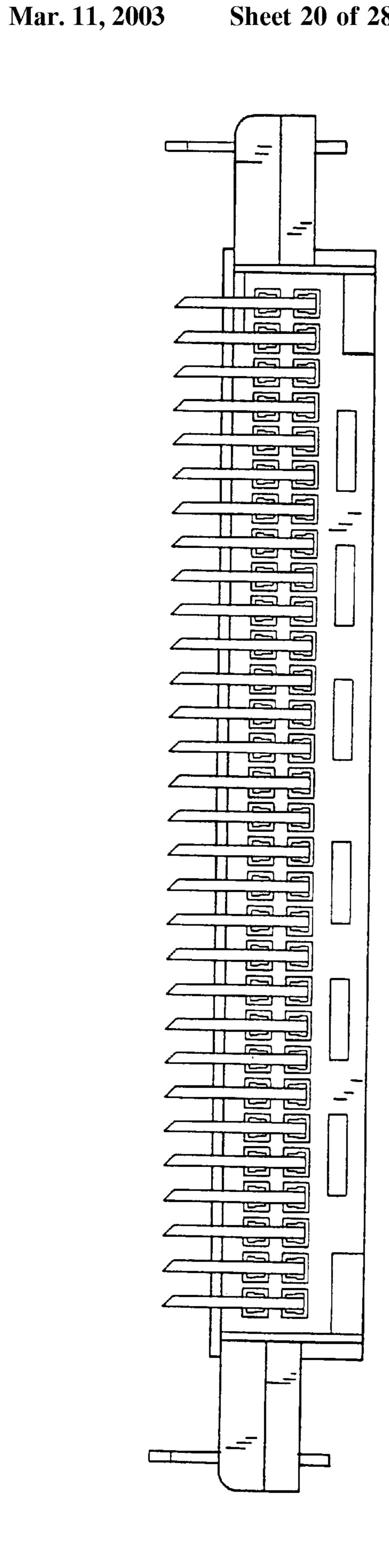


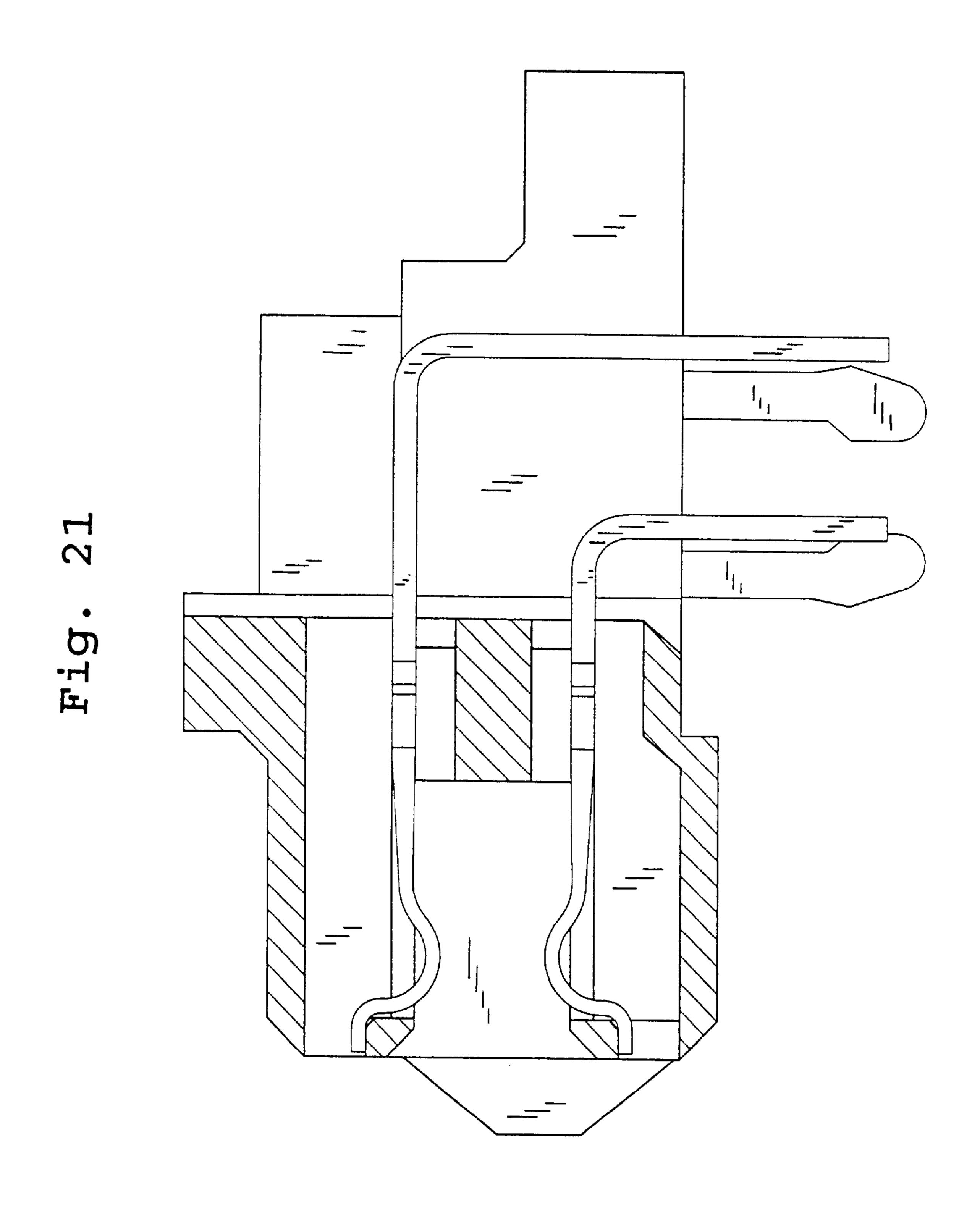


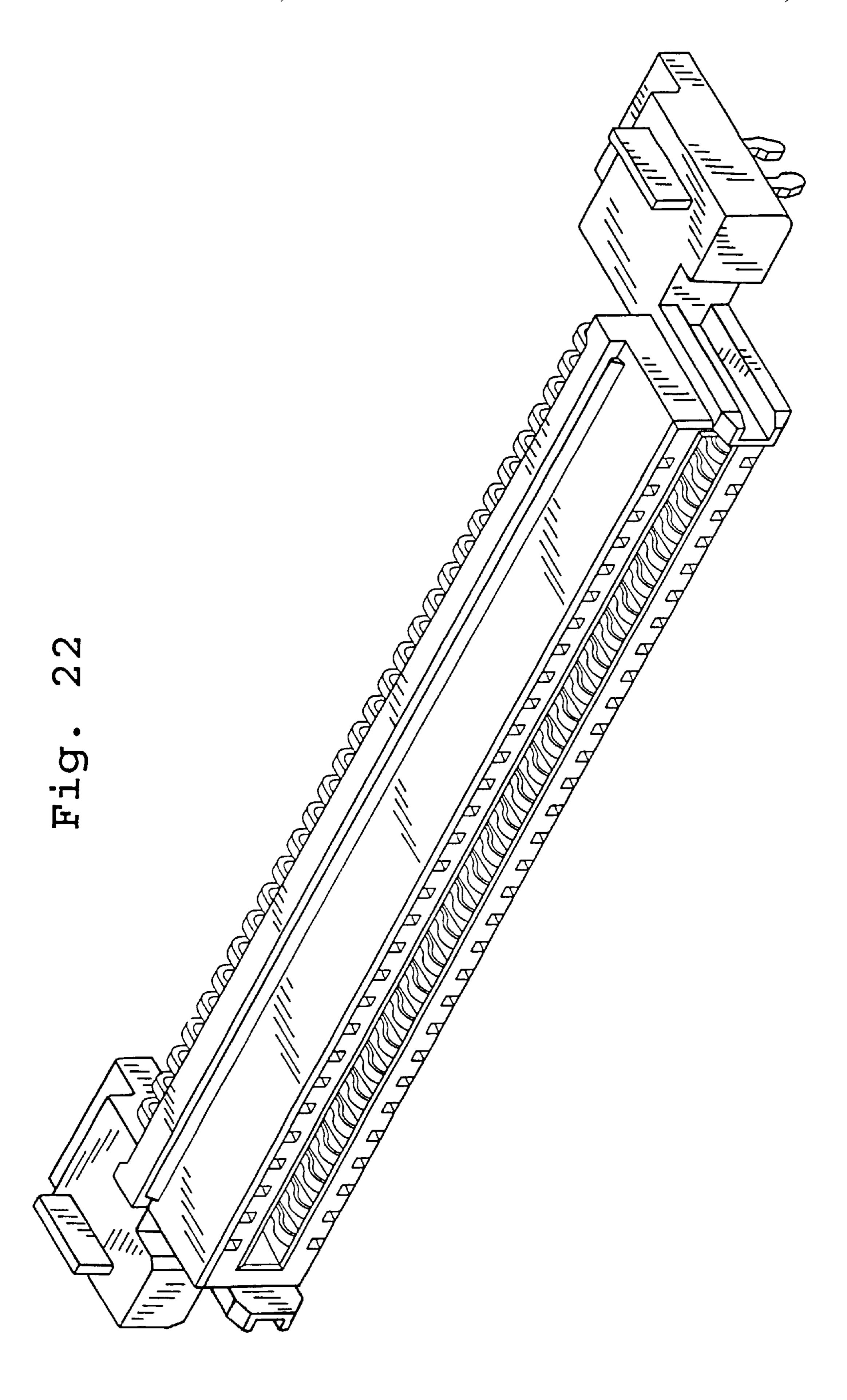


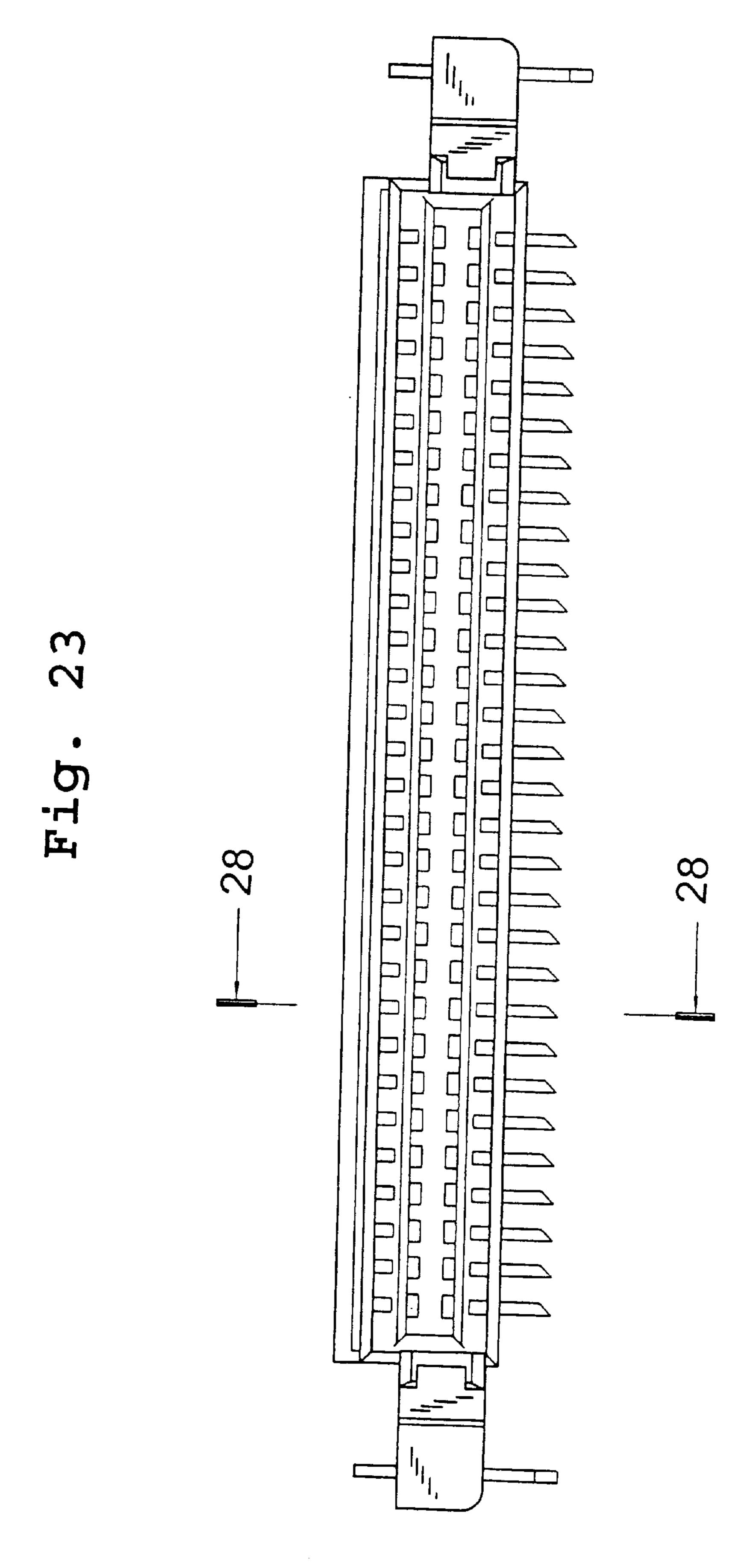


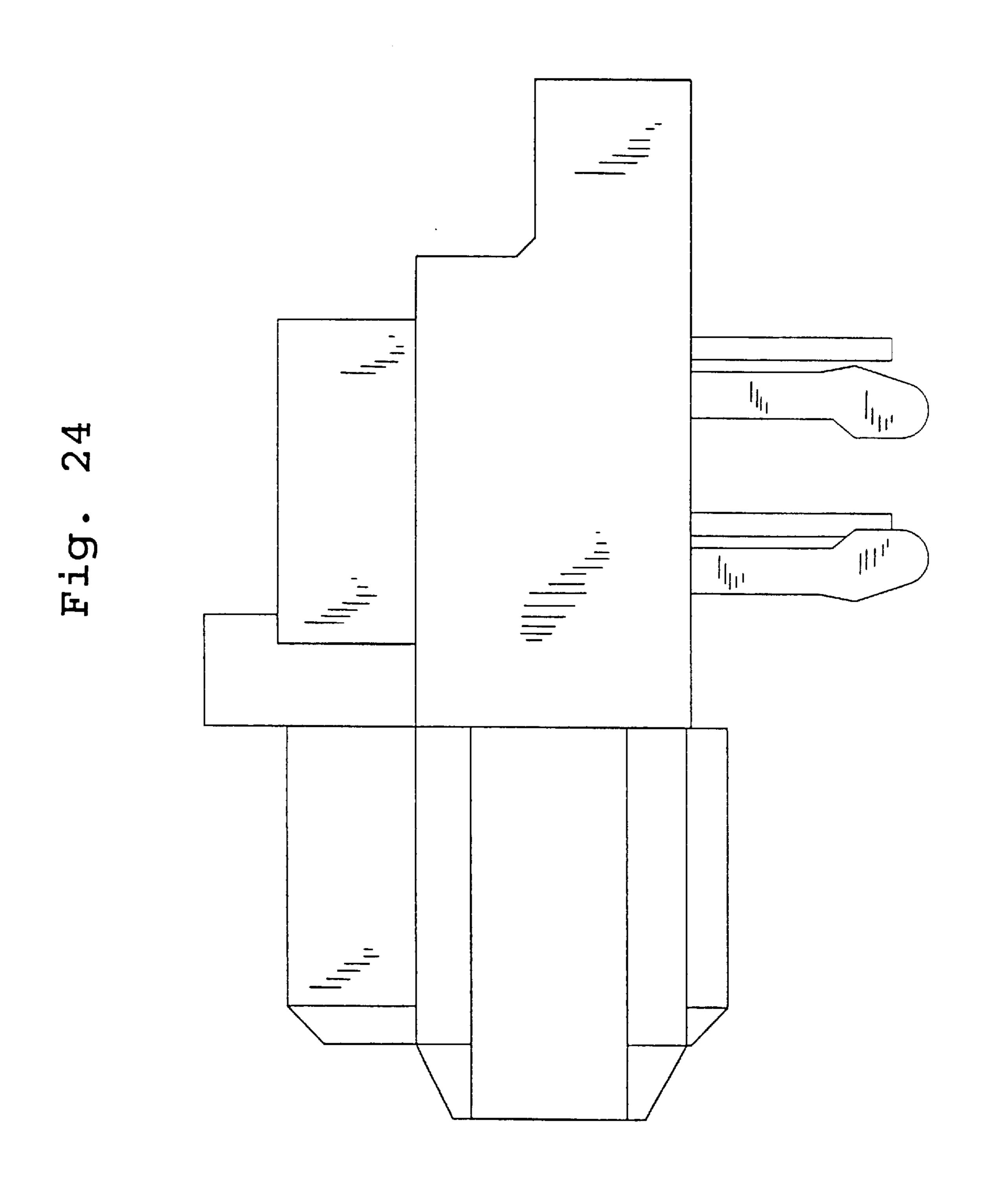
US D471,522 S

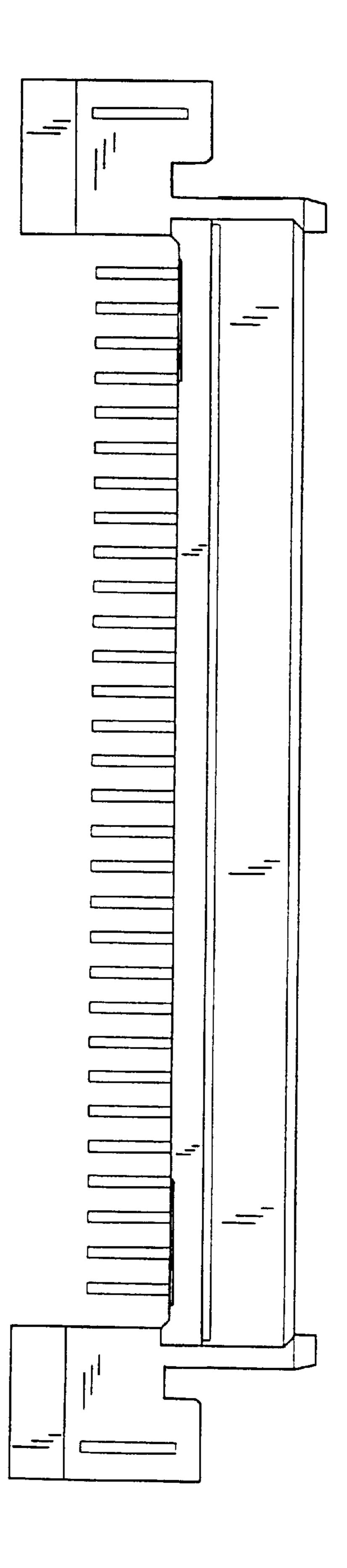


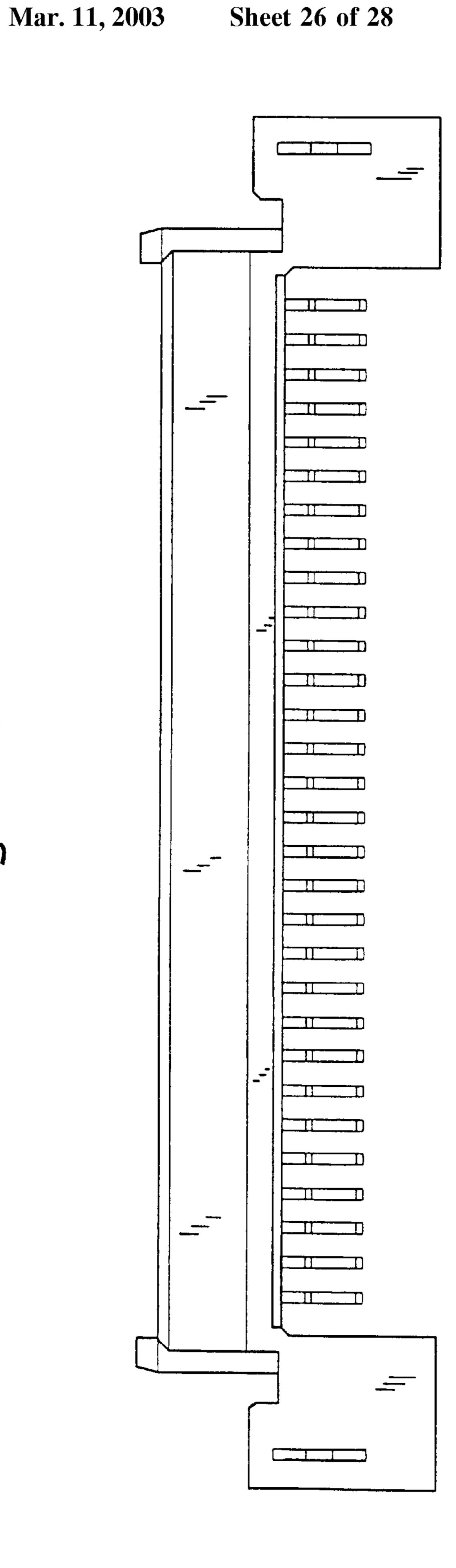












US D471,522 S

