



US00D456778S

(12) **United States Design Patent**  
**Igarashi**

(10) **Patent No.:** **US D456,778 S**

(45) **Date of Patent:** **\*\* May 7, 2002**

- (54) **ELECTRICAL CONNECTOR**
- (75) Inventor: **Isao Igarashi, Akishima (JP)**
- (73) Assignee: **Japan Aviation Electronics Industry, Limited, Tokyo (JP)**
- (\*\*) Term: **14 Years**
- (21) Appl. No.: **29/123,161**
- (22) Filed: **May 11, 2000**
- (30) **Foreign Application Priority Data**  
Nov. 12, 1999 (JP) ..... 11-31359
- (51) **LOC (7) Cl.** ..... **13-03**
- (52) **U.S. Cl.** ..... **D13/147**
- (58) **Field of Search** ..... D13/147; 439/260,  
439/429-499

- (56) **References Cited**
- U.S. PATENT DOCUMENTS**
- 3,960,436 A \* 6/1976 Zebisch ..... 439/660
- D371,542 S \* 7/1996 Takayasu ..... D13/147
- D408,788 S \* 4/1999 Homma ..... D13/147
- 5,906,504 A \* 5/1999 Igarashi et al. .... 439/495
- 6,066,000 A \* 5/2000 Masumoto et al. .... 439/607
- 6,099,346 A \* 8/2000 Hashiguchi et al. .... 439/495
- 6,146,171 A \* 11/2000 Kunishi et al. .... 439/260
- 6,231,378 B1 \* 5/2001 Wu et al. .... 439/495
- D444,130 S \* 6/2001 Hayashi et al. .... D13/147
- FOREIGN PATENT DOCUMENTS**
- JP 10284201 \* 10/1998 ..... H01R/31/06
- JP 11283710 \* 10/1999 ..... H01R/13/648
- JP 200182697 \* 6/2000 ..... H01R/12/28
- JP 2000200641 \* 7/2000 ..... H01R/12/28

JP	2000231971	*	8/2000	.....	H01R/31/06
JP	2000323206	*	11/2000	.....	H01R/12/28
JP	2000340283	*	12/2000	.....	H01R/12/28
JP	2001052787	*	2/2001	.....	H01R/12/28
JP	2001057274	*	2/2001	.....	H01R/13/648

\* cited by examiner

*Primary Examiner*—Joel Sincavage  
(74) *Attorney, Agent, or Firm*—Michael Best & Friedrich LLC; J. Warren Whitesel

(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a front, top, and right side perspective view of an electrical connector;  
 FIG. 2 is a top plan view thereof;  
 FIG. 3 is a front elevation view thereof;  
 FIG. 4 is a right side elevation view thereof;  
 FIG. 5 is a bottom plan view thereof;  
 FIG. 6 is a rear elevation view thereof; and  
 FIG. 7 is a sectional view take along a line 7—7 of FIG. 3; and,  
 FIG. 8 is a perspective view illustrating a state in use thereof wherein the electrical connector is coupled with a wire-harness.  
 A left side view of the electrical connector is omitted because it is presented symmetrical to the right side view of FIG. 4.  
 The broken line showing the wiring harness in FIG. 8 is included for the purpose of illustrating environmental structure only and forms no part of the claimed design.

**1 Claim, 3 Drawing Sheets**

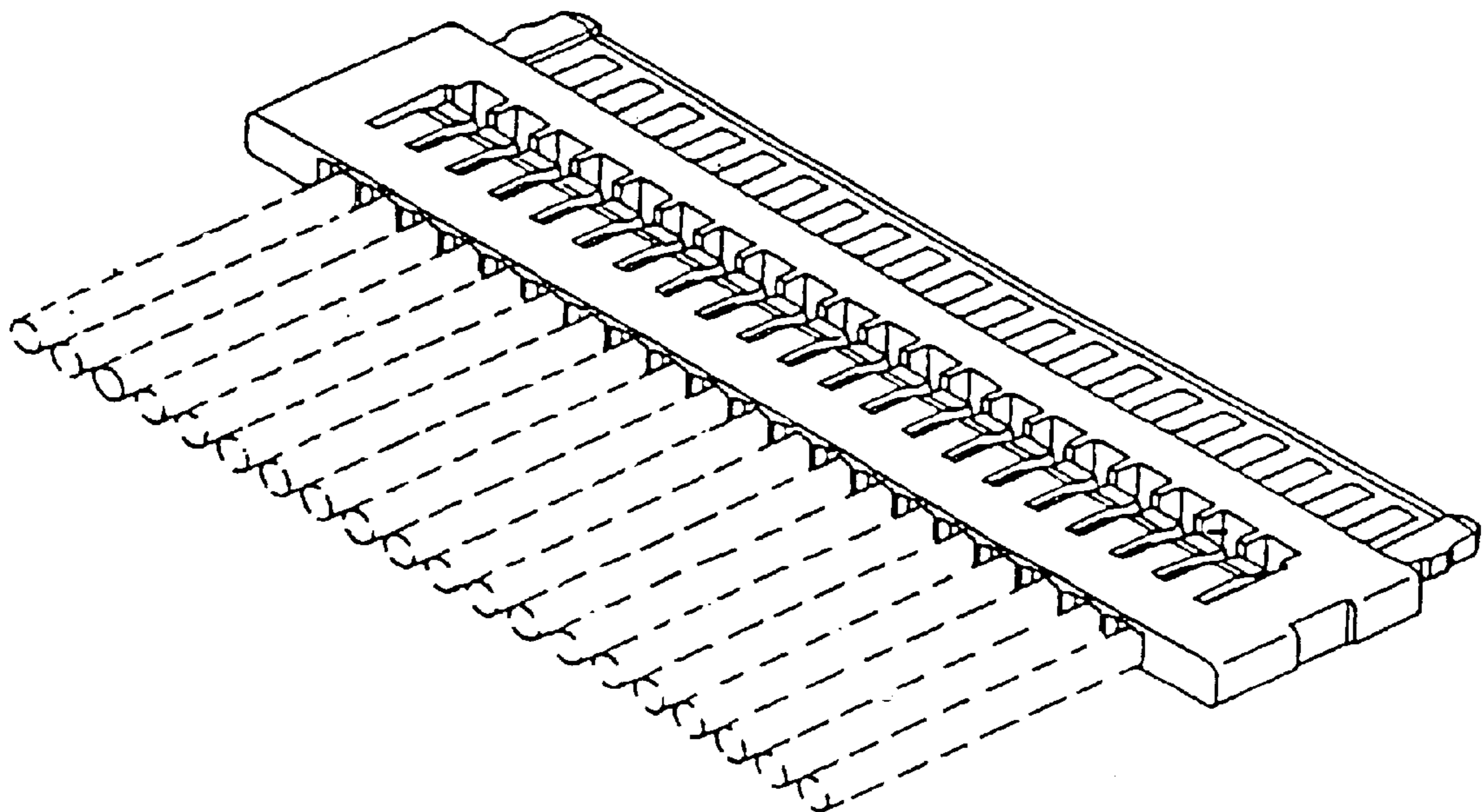


FIG. 1

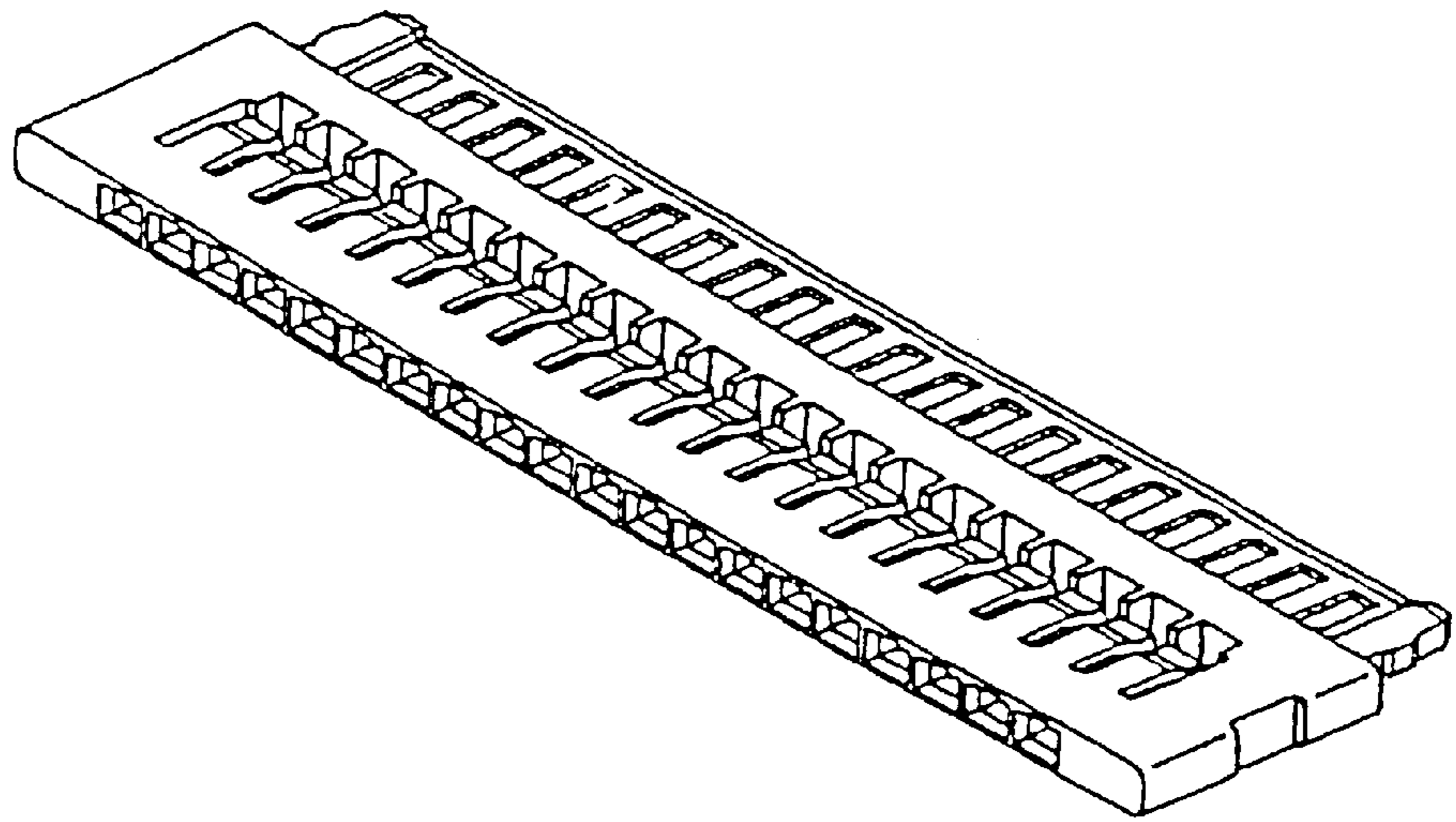
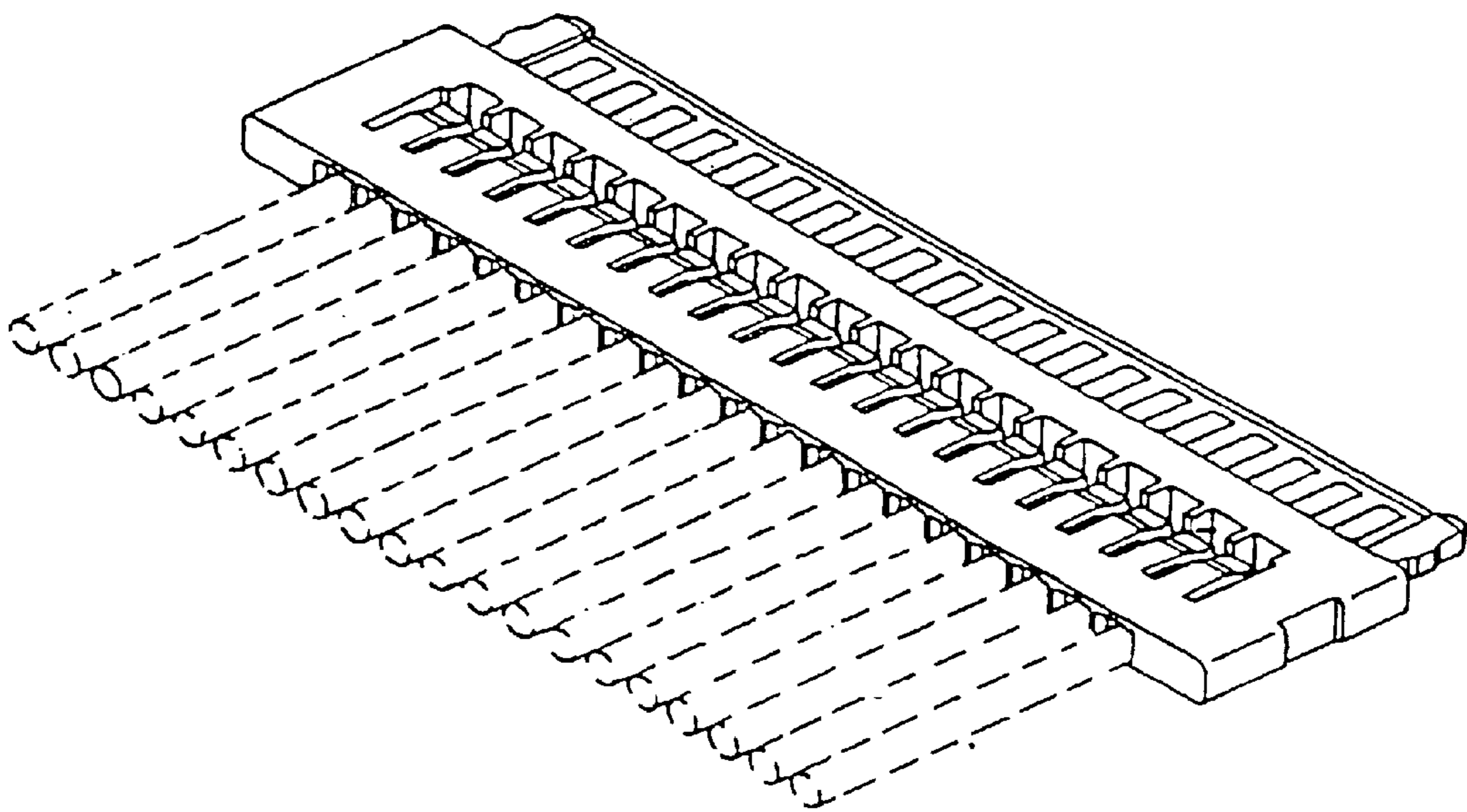
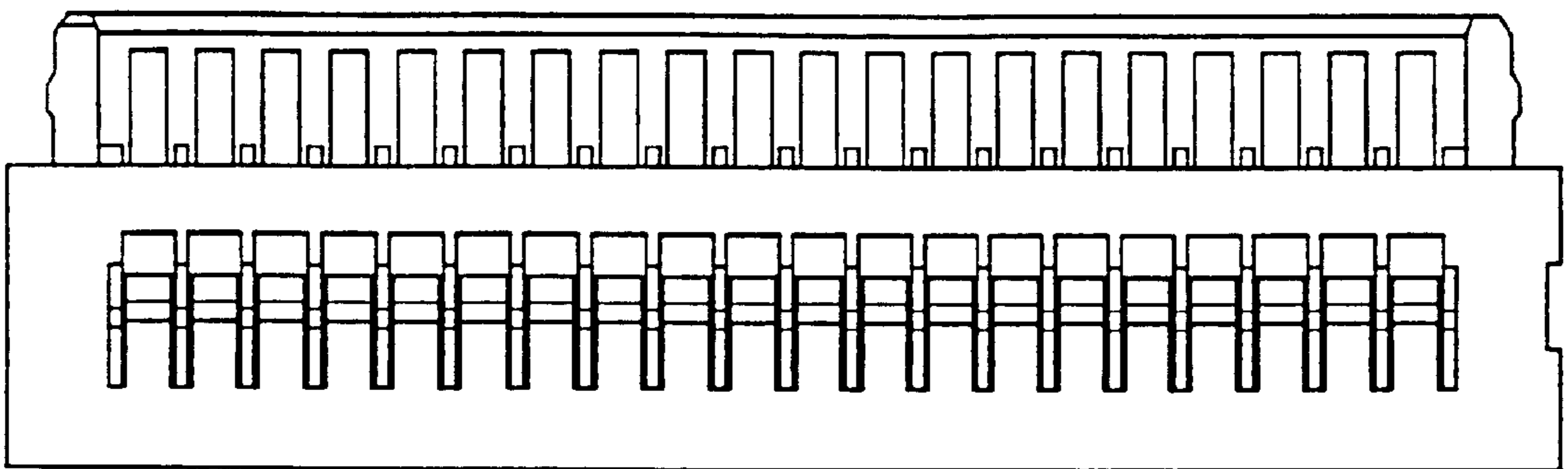


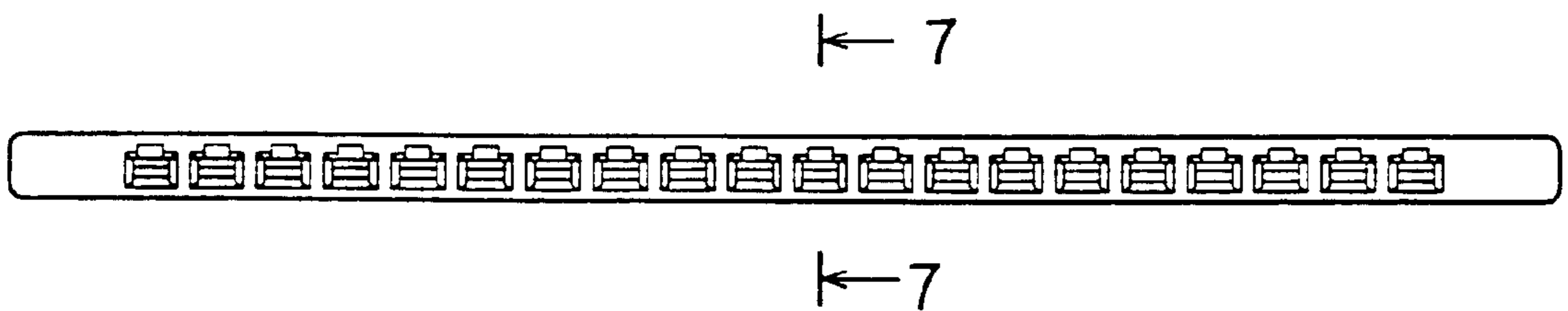
FIG. 8



**FIG. 2**



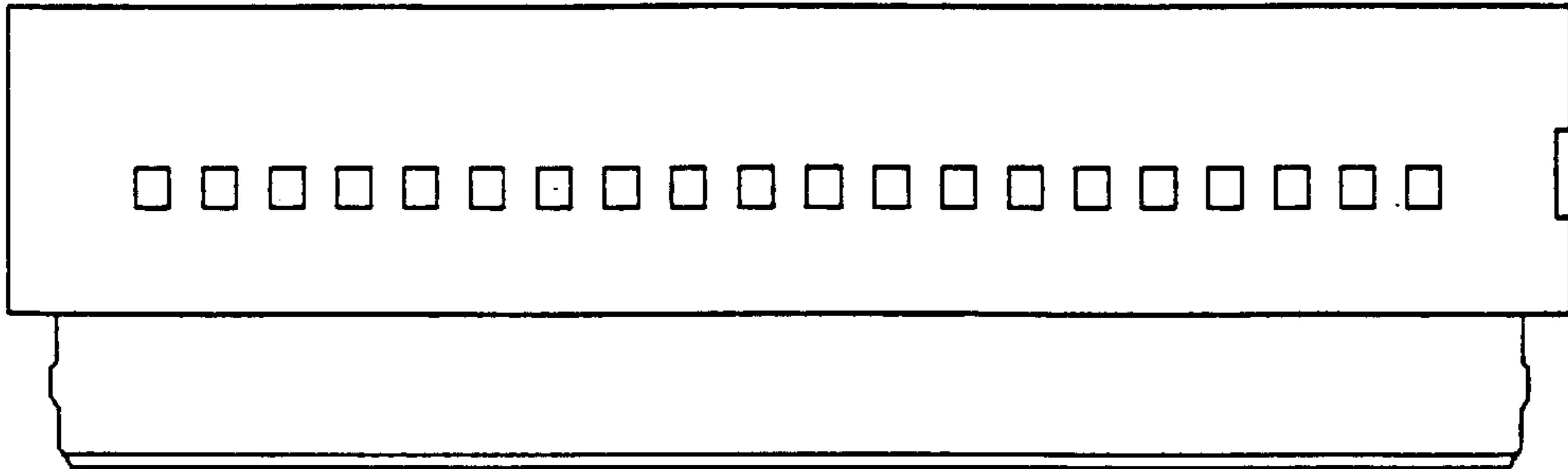
**FIG. 3**



**FIG. 4**



**FIG. 5**



**FIG. 6**



**FIG. 7**

