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

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(54) **VERTICAL ELECTRICAL CONNECTOR**

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

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**Related U.S. Application Data**

(63) Continuation of application No. 29/408,580, filed on Dec. 14, 2011, now Pat. No. Des. 664,096, which is a continuation of application No. 29/397,395, filed on Jul. 15, 2011, now Pat. No. Des. 651,981, which is a continuation of application No. 29/380,052, filed on Nov. 30, 2010, now Pat. No. Des. 641,709, which is a continuation of application No. 29/345,790, filed on Oct. 22, 2009, now Pat. No. Des. 628,536, which is a continuation of application No. 29/330,997, filed on Jan. 16, 2009, now Pat. No. Des. 606,497.

(51) **LOC (9) Cl.** ..... **13-03**

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

(58) **Field of Classification Search**  
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439/260, 325, 329, 395, 492, 495, 607.01,  
439/607.04, 607.05, 607.17, 607.25,  
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See application file for complete search history.

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(57) **CLAIM**

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

**DESCRIPTION**

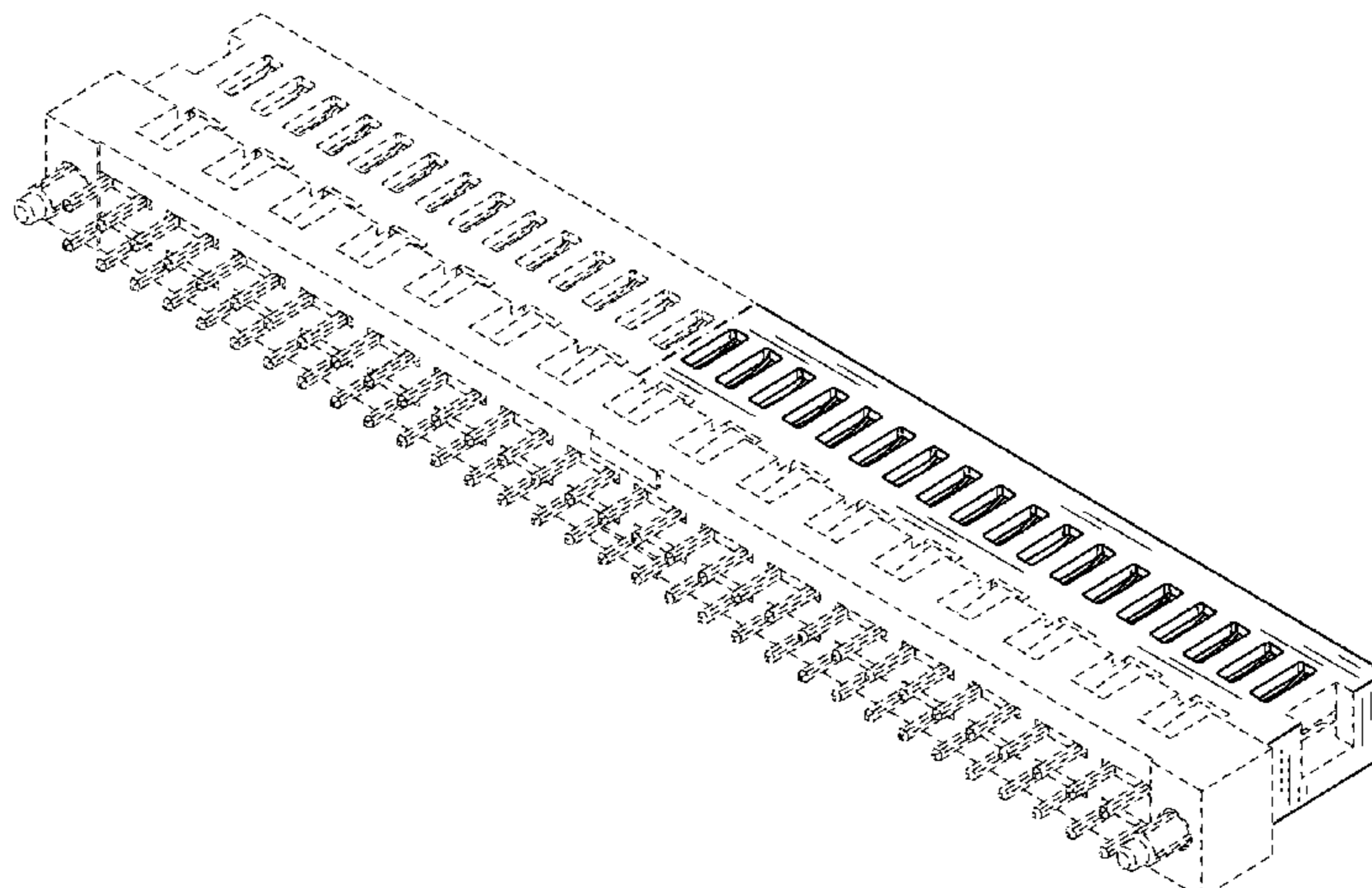
This application is related by subject matter to U.S. patent application Ser. No. 12/687,237, filed on Jan. 15, 2010, now U.S. Pat. No. 8,043,097, and is further related by subject matter to U.S. patent application Ser. Nos. 29/331,013 filed on Jan. 16, 2009, now U.S. Pat. No. D608,293; 29/331,017 filed on Jan. 16, 2009, now U.S. Pat. No. D610,548; and 29/330,990 filed on Jan. 16, 2009, now U.S. Pat. No. D606,496; and is further related by subject matter to U.S. Pat. No. D623,138 and U.S. patent application Ser. No. 29/345,808, filed Oct. 22, 2009, now U.S. Pat. No. D631,442.

FIG. 1 is a top, left, rear perspective view of a vertical electrical connector according to my design;  
FIG. 2 is a top plan view thereof;  
FIG. 3 is a bottom plan view thereof;  
FIG. 4 is a rear elevation view thereof;  
FIG. 5 is a front elevation view thereof;  
FIG. 6 is a left side elevation view thereof; and,  
FIG. 7 is a right side elevation view thereof.

The broken line portion of the figure drawings is included to show unclaimed subject matter only and forms no part of the claimed design. The dash-dot line represents boundaries of the claimed design.

In a preferred embodiment, the nature of this product is a vertical electrical connector in the form of an electrical connector housing configured for retaining a plurality of electrical contacts.

**1 Claim, 4 Drawing Sheets**



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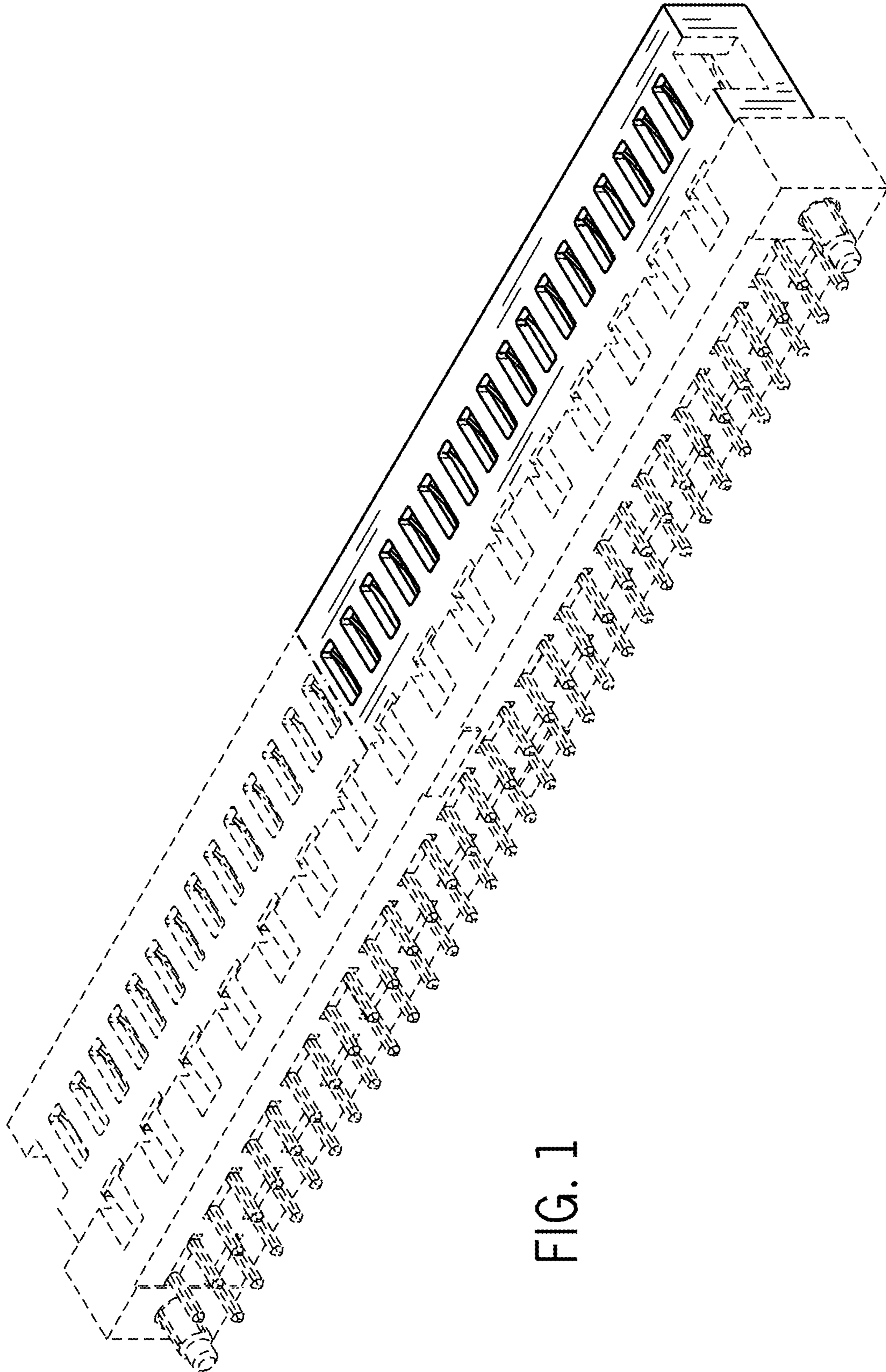


FIG. 1

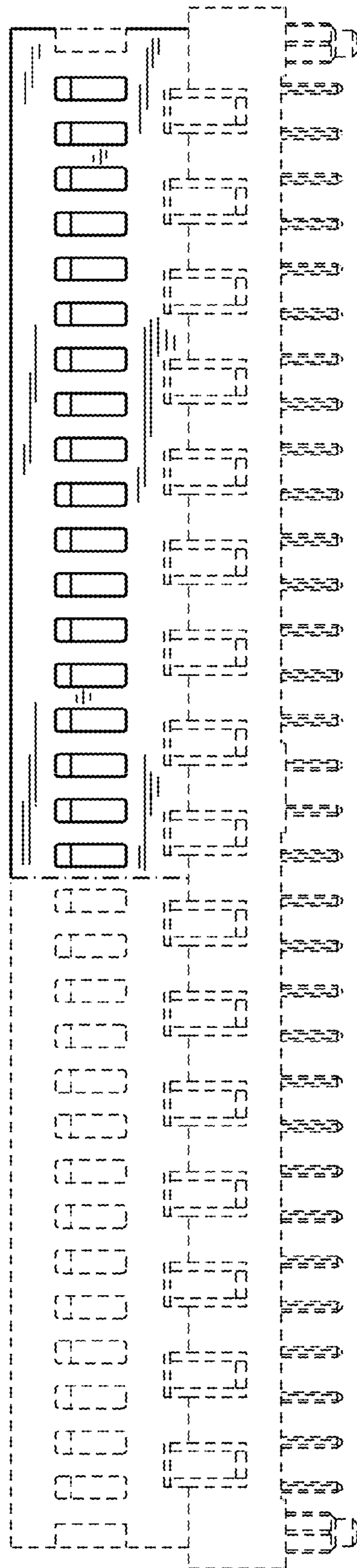


FIG. 2

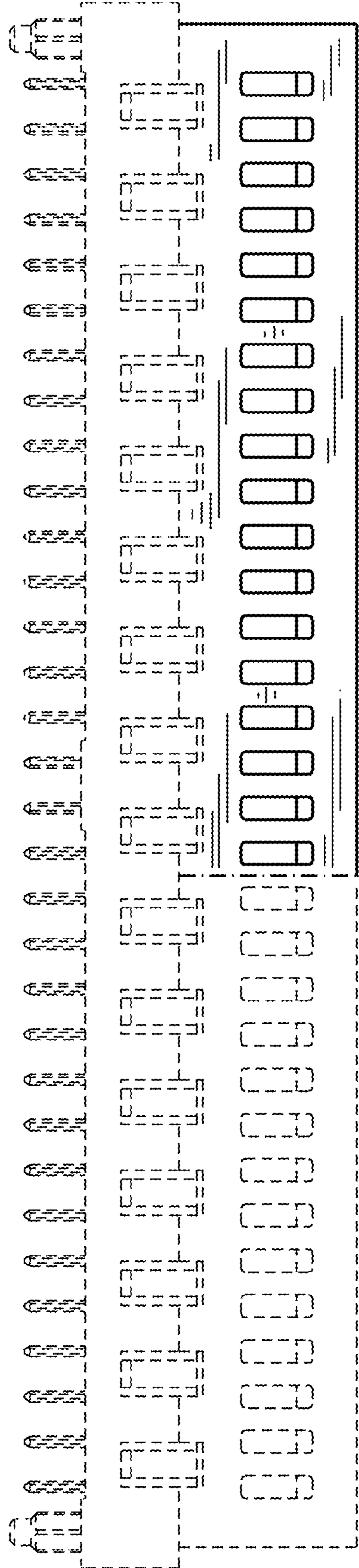


FIG. 3

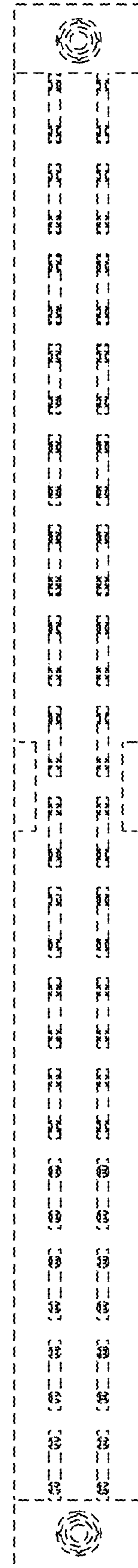


FIG. 4

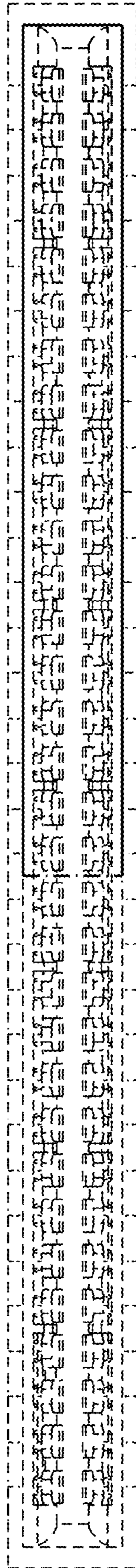


FIG. 5

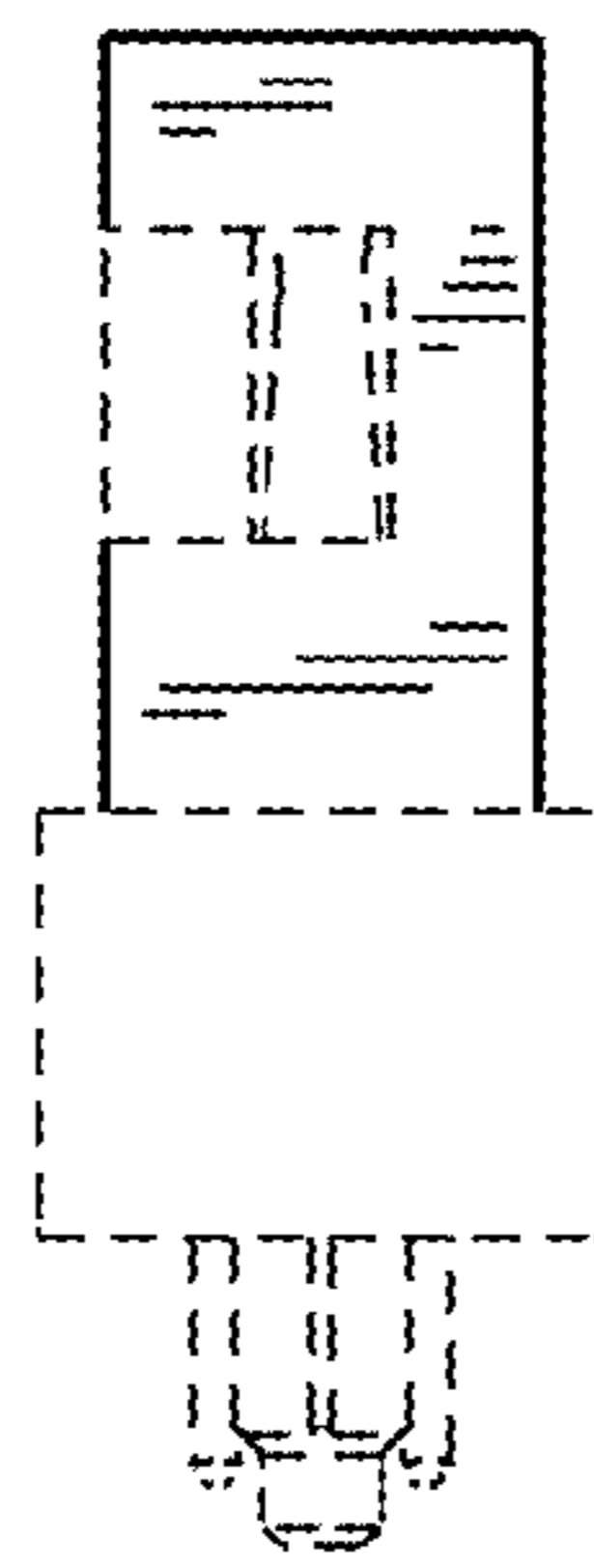


FIG. 6

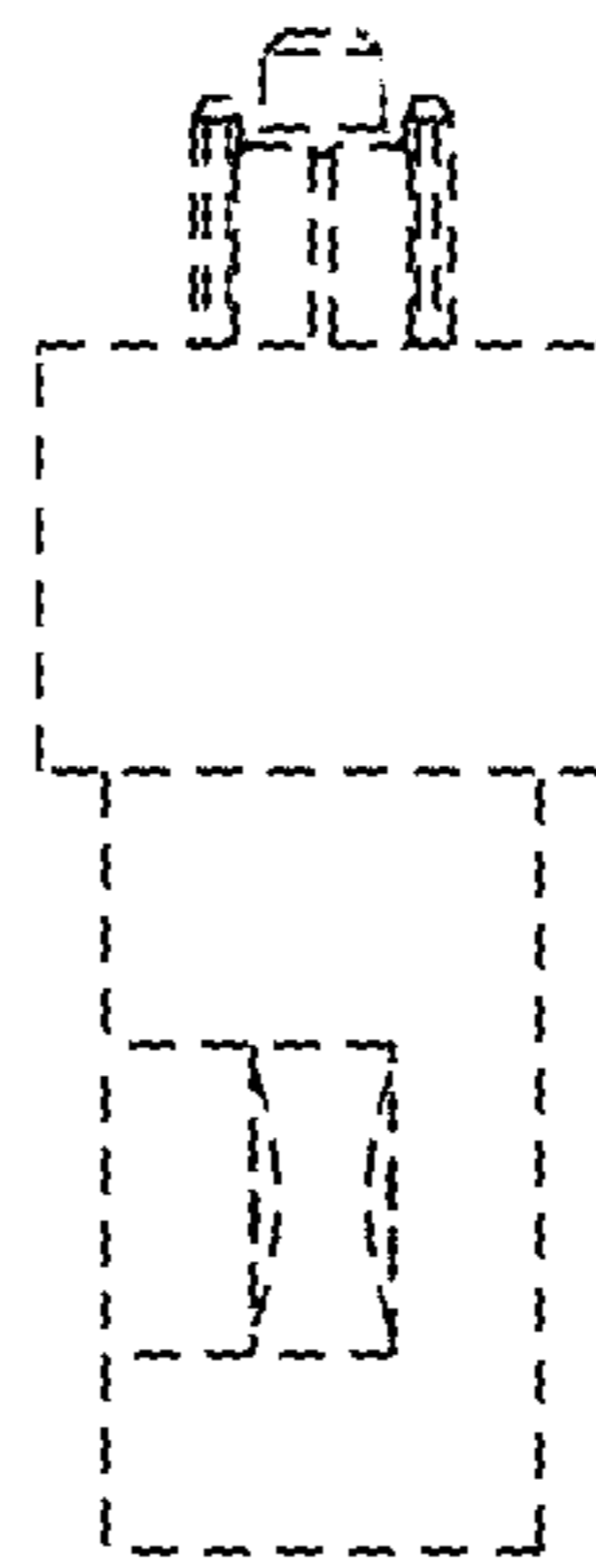


FIG. 7