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

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(54) **VERTICAL ELECTRICAL CONNECTOR**

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(73) Assignee: **FCI Americas Technology LLC**,  
Carson City, NV (US)

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

(21) Appl. No.: **29/364,019**

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**Related U.S. Application Data**

(63) Continuation of application No. 29/345,798, filed on Oct. 22, 2009, now Pat. No. Des. 623,138, which is a continuation of application No. 29/331,013, filed on Jan. 16, 2009, now Pat. No. Des. 608,293.

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

(52) **U.S. Cl.** ..... **D13/154**

(58) **Field of Classification Search** ..... D13/147,  
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439/607.01, 607.04, 607.05, 607.17, 607.25,  
439/607.34, 607.41, 607.53, 650, 677, 660,  
439/668, 680, 686, 892, 894  
See application file for complete search history.

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*Primary Examiner* — Daniel D Bui

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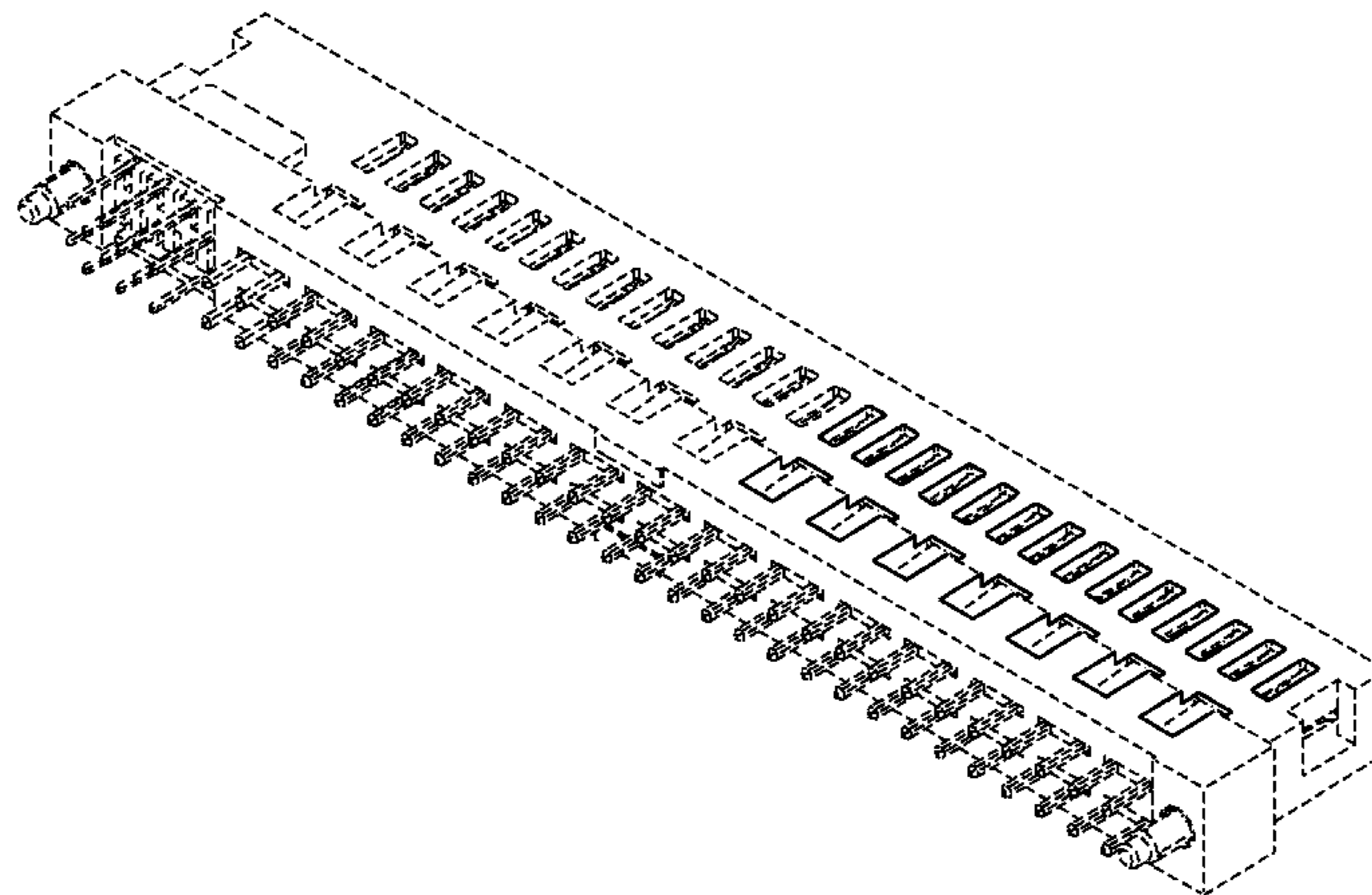
(57) **CLAIM**

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

**DESCRIPTION**

This application is related by subject matter to U.S. Design patent application Ser. Nos. 29/331,017 filed on Jan. 16, 2009, now US Pat. No. D610,548; 29/330,990 filed on Jan. 16, 2009, now US Pat. No. D606,496; and 29/330,997 filed on Jan. 16, 2009, now US Pat. No. D606,497, and is further related by subject matter to U.S. Design patent application Ser. No. 29/345,790, filed Oct. 22, 2009, and U.S. Design patent application Ser. No. 29/345,808, filed Oct. 22, 2009. 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 shown in the drawing views is unclaimed subject matter and forms no part 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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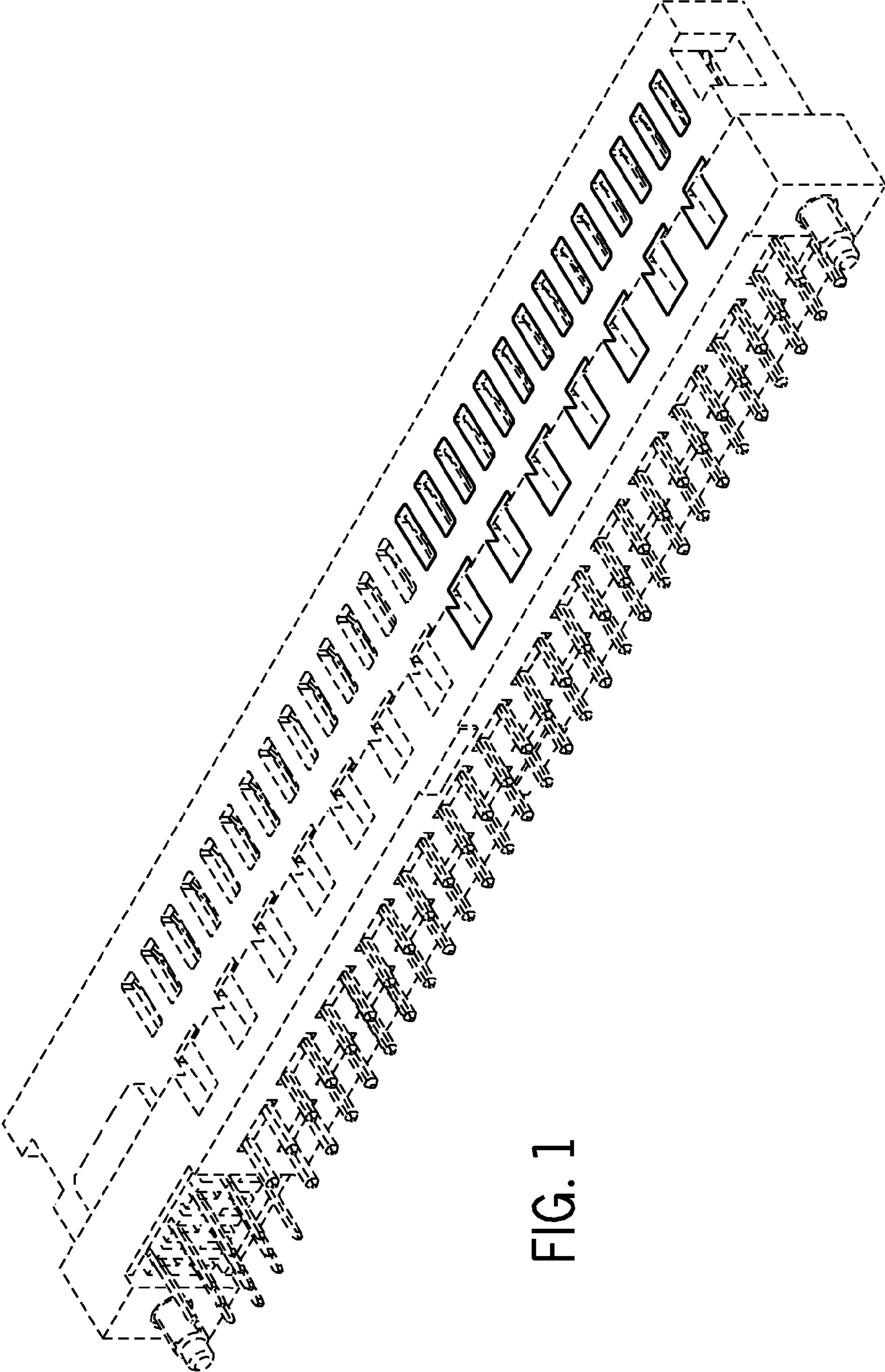


FIG. 1

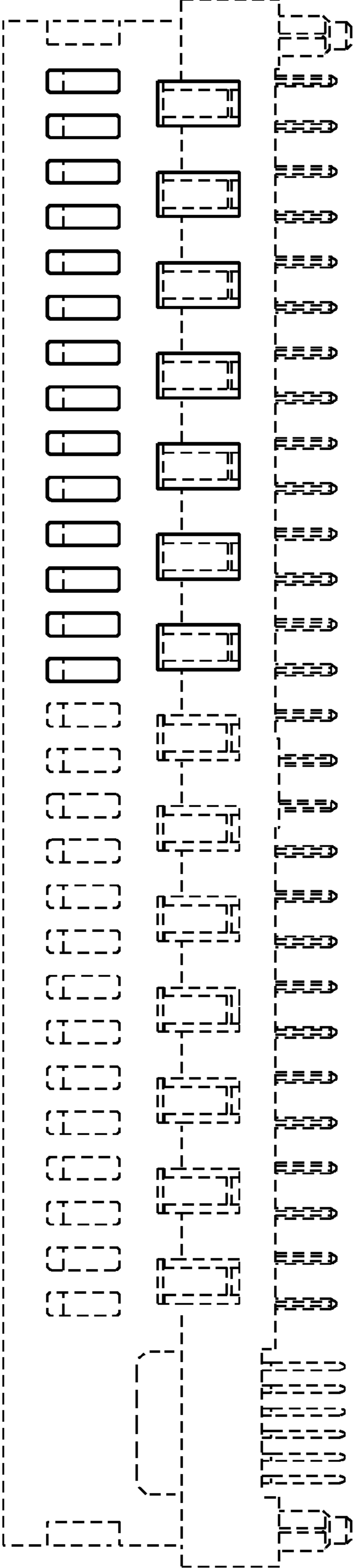


FIG. 2

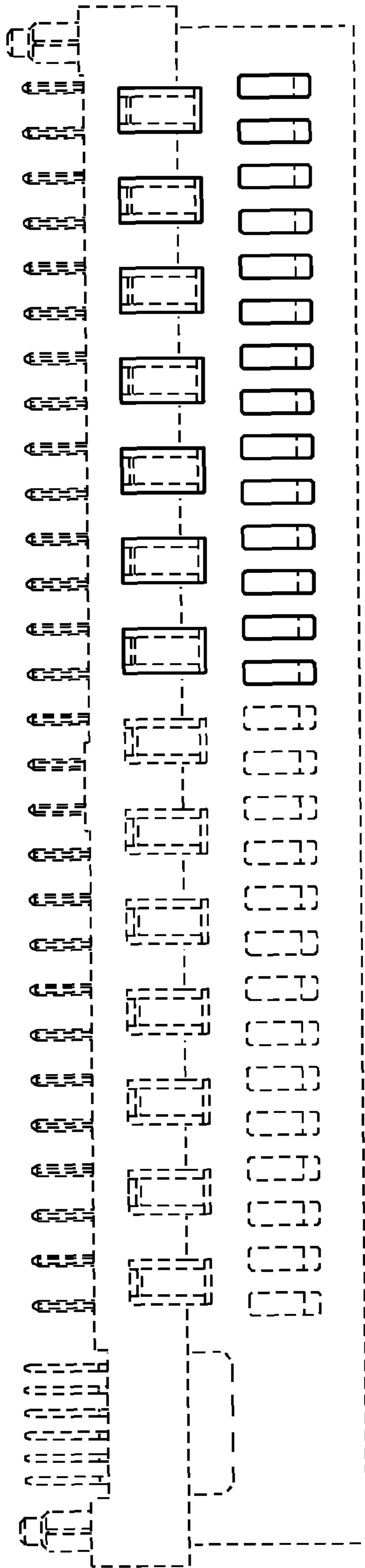


FIG. 3

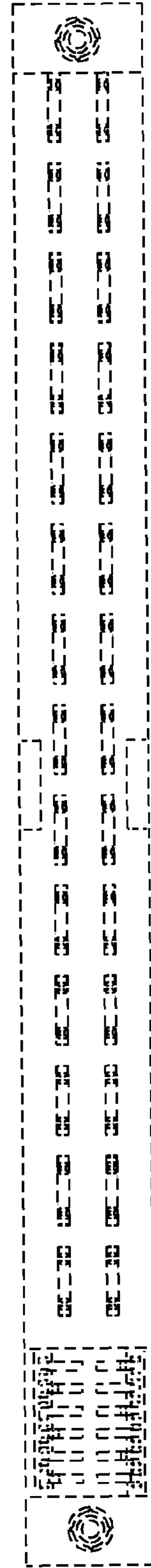


FIG. 4

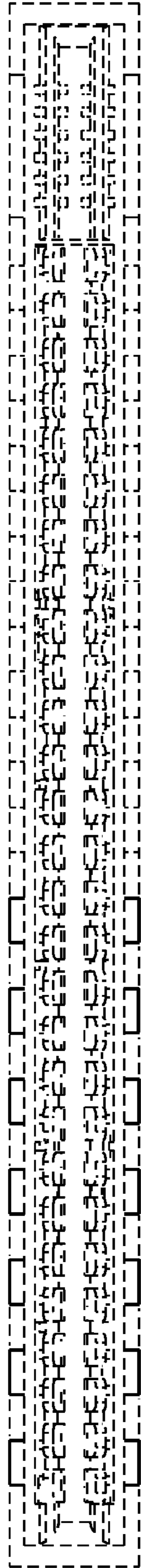


FIG. 5

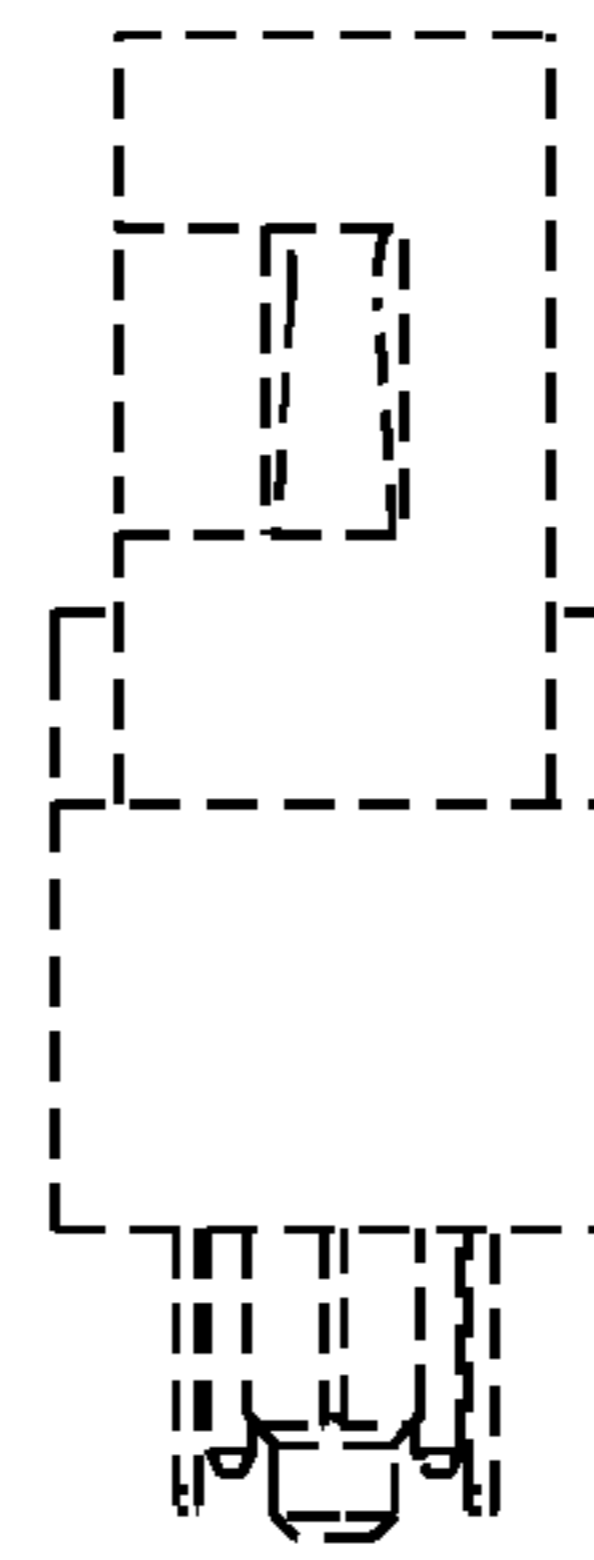


FIG. 6

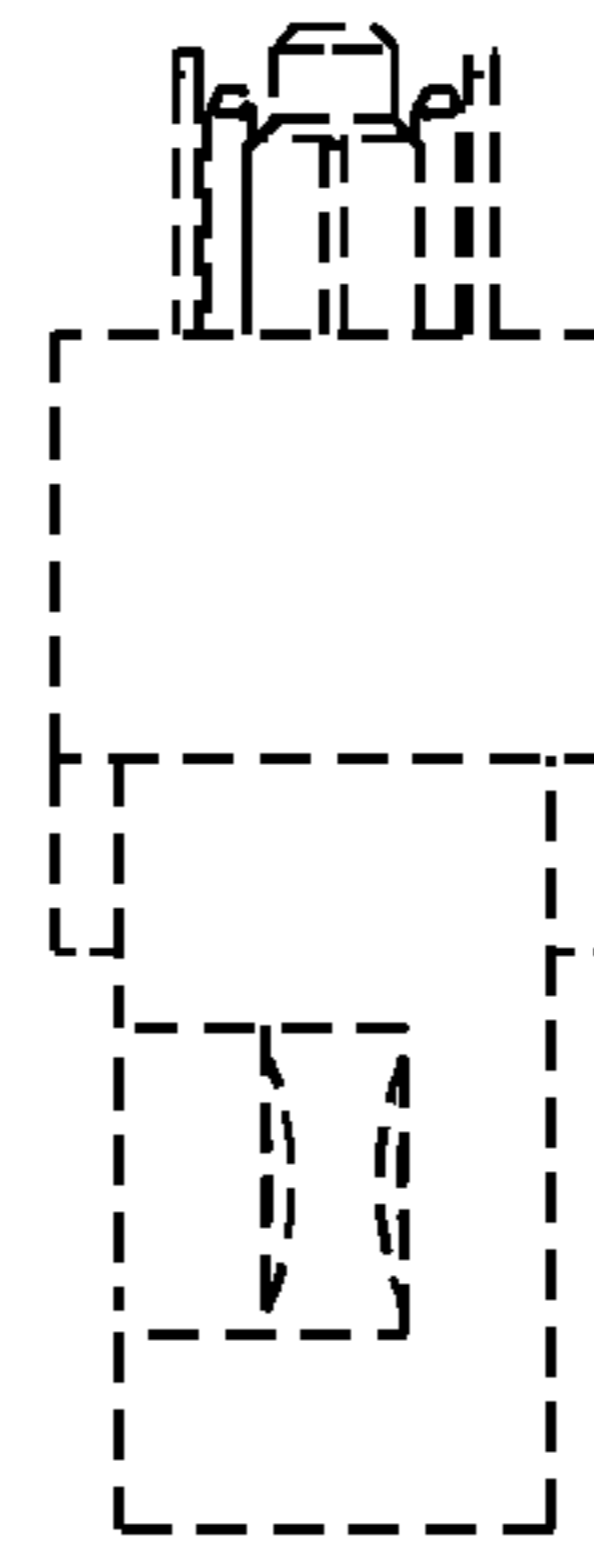


FIG. 7



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : D640,637 S  
APPLICATION NO. : 29/364019  
DATED : June 28, 2011  
INVENTOR(S) : Hung Viet Ngo

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page At DESCRIPTION, the paragraph should read:

**This application is related by subject matter to U.S. Provisional Patent Application Serial No. 61/205,276 filed on January 16, 2009,**

and is further related by subject matter to U.S. Design Patent Application Serial Nos. 29/331,017 filed on January 16, 2009, now US Patent No. D610,548;

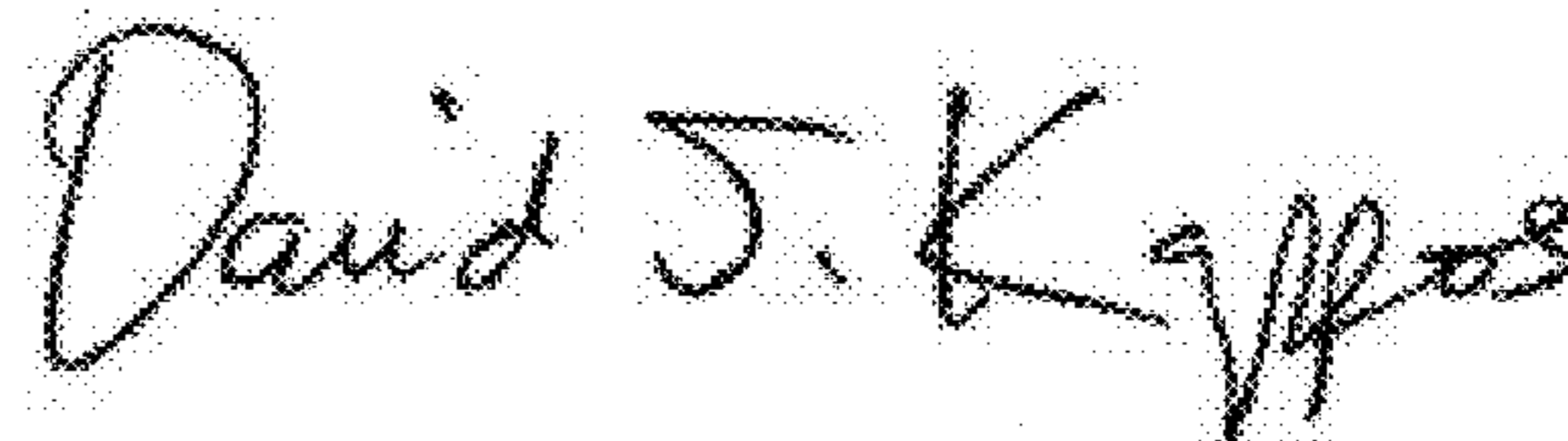
29/330,990 filed on January 16, 2009, now U.S. Patent No. D606,496;

and 29/330,997 filed on January 16, 2009, now U.S. Patent No. D606,497,

and is further related by subject matter to U.S. Design Patent Application No. 29/345,790, filed October 22, 2009,

and U.S. Design Patent Application No. 29/345,808, filed October 22, 2009.

Signed and Sealed this  
Twenty-seventh Day of September, 2011



David J. Kappos  
*Director of the United States Patent and Trademark Office*