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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.: **29/380,052**

(22) Filed: **Nov. 30, 2010**

**Related U.S. Application Data**

(63) Continuation of application No. 29/345,790, filed on Oct. 22, 2009, now Pat. No. Des. 628,536, and 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.** ..... **D13/154**; D13/147

(58) **Field of Classification Search** ..... D13/133, D13/147, 154, 184, 199; 439/159, 260, 264, 439/266, 325, 329, 492, 525–527, 532–533, 439/607.01, 607.04, 607.05, 607.17, 607.25, 439/607.34, 607.41, 607.53, 630–631, 682, 439/853, 856

See application file for complete search history.

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(74) *Attorney, Agent, or Firm* — Woodcock Washburn LLP

(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. Provisional patent application Ser. No. 12/687,237, filed on Jan. 15, 2010, now U.S. Pat. No. 20100184339 and is further related by subject matter to U.S. Design 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. Design 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;

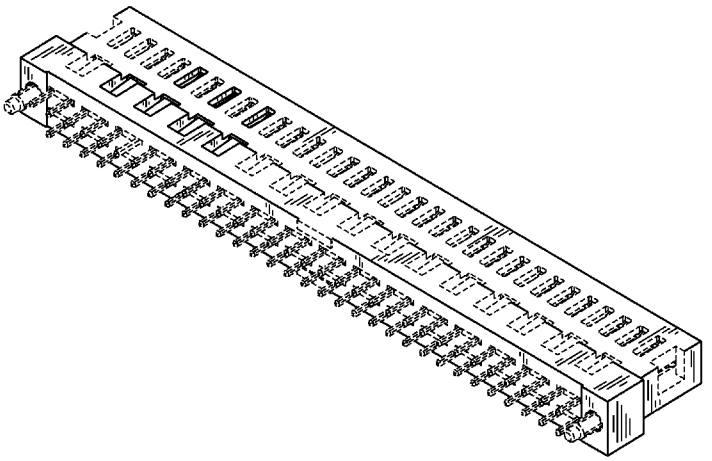
FIG. **6** is a left side elevation view thereof; and,

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.

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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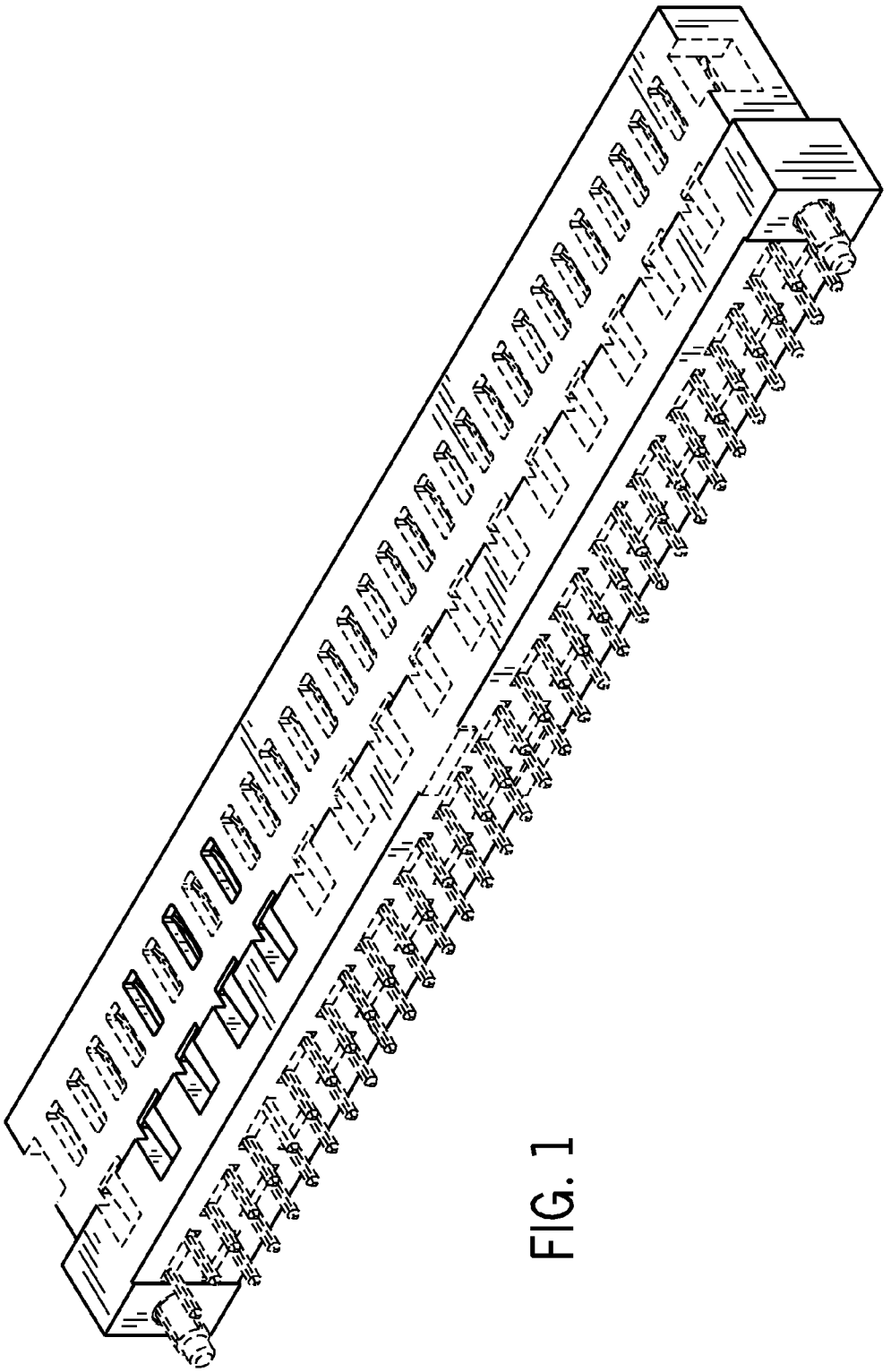


FIG. 1

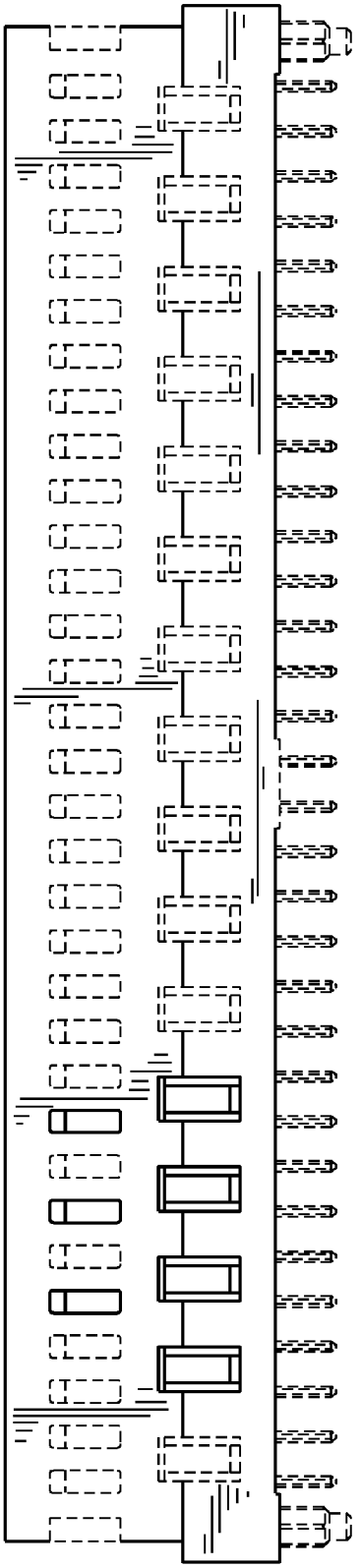


FIG. 2

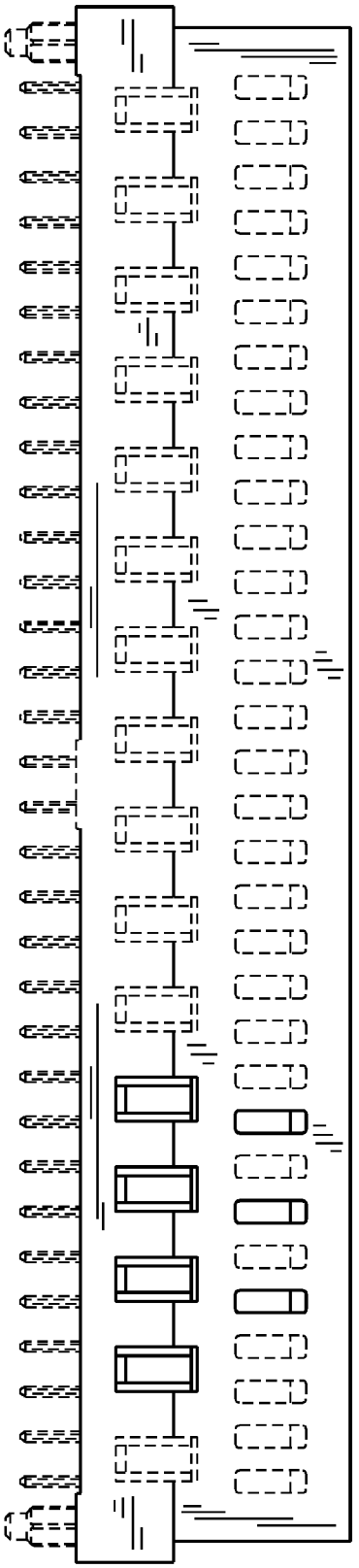


FIG. 3

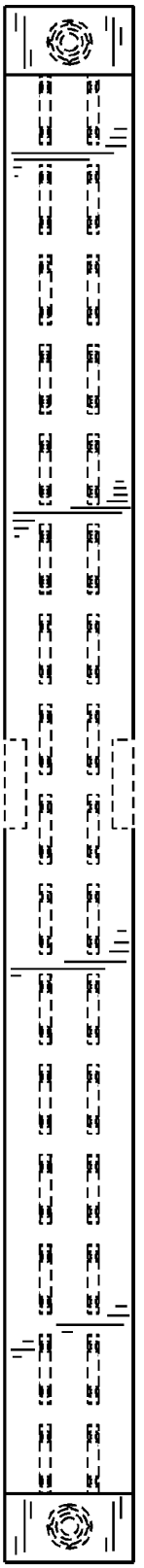


FIG. 4

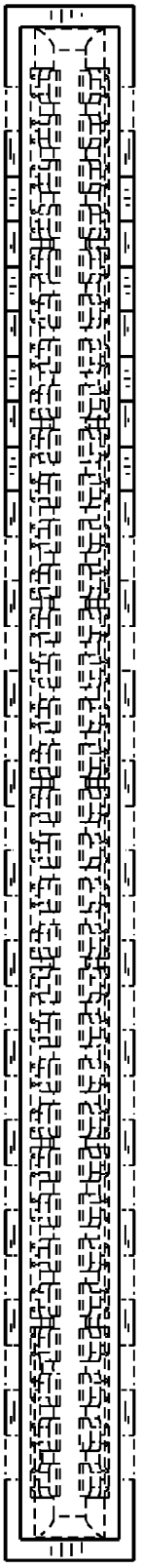


FIG. 5

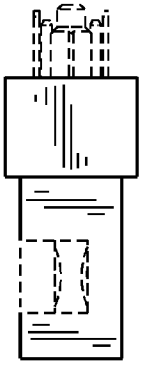


FIG. 7

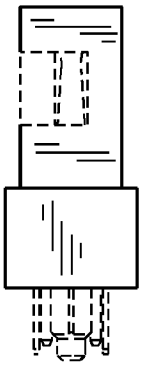


FIG. 6

UNITED STATES PATENT AND TRADEMARK OFFICE

# CERTIFICATE OF CORRECTION



PATENT NO. : D641,709 S
APPLICATION NO. : 29/380052
DATED : July 19, 2011
INVENTOR(S) : Hung Viet Ngo

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

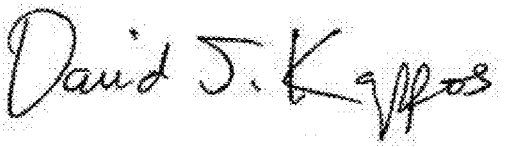
Title page, item (63) Related U.S. Application Data, delete "and" and substitute therefor --which is-- so that the paragraph reads:

--Continuation of application No. 29/345,790, filed on October 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.--

At DESCRIPTION, delete "Provisional" so that the sentence begins:

--This application is related by subject matter to U.S. patent application Ser. No. 12/687,237, filed on Jan. 15, 2010 ...--

Signed and Sealed this
Thirtieth Day of August, 2011



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