



US00D945368S

(12) **United States Design Patent** (10) **Patent No.:** **US D945,368 S**
Li (45) **Date of Patent:** **** Mar. 8, 2022**

(54) **ELECTRICAL CONNECTOR**

FOREIGN PATENT DOCUMENTS

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CN 304699240 * 6/2018

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OTHER PUBLICATIONS

(73) Assignee: **Ta-Tsai Lee**, Shuishang Township (TW)

24 Pin 90 Degree Adapter by Cooler Master. Amazon. Oldest review date: Jan. 2, 2019. Retrieval date: Mar. 25, 2021. Retrieved from internet: <https://www.amazon.com/Cooler-Master-Pin-Degree-Adapter/dp/B07J1XS5XJ> (Year: 2019).*

(**) Term: **15 Years**

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(Continued)

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(30) **Foreign Application Priority Data**

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

(57) **CLAIM**

(52) **U.S. Cl.**
USPC **D13/133; D13/147**

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

(58) **Field of Classification Search**
USPC D13/152–158, 146, 147, 133, 199, 184;
D14/432, 433
CPC H01R 13/46; H01R 13/465; H01R 13/502;
H01R 13/5025; H01R 13/506; H01R
13/508; H02G 3/04; H02G 3/0406; H02G
3/0418; H02G 3/081; H02G 3/123; H02G
3/125; H02G 3/14; H02G 3/16; H02G
3/30

DESCRIPTION

See application file for complete search history.

FIG. 1 is a front elevation view of an electrical connector showing my new design;
FIG. 2 is a rear elevation view thereof;
FIG. 3 is an enlarged left-side elevation view thereof;
FIG. 4 is an enlarged right-side elevation view thereof;
FIG. 5 is a top plan view thereof;
FIG. 6 is a bottom plan view thereof;
FIG. 7 is a perspective view thereof;
FIG. 8 is an enlarged front view of portion 8 of the electrical connector of FIG. 1; and,
FIG. 9 is an enlarged perspective view of portion 9 of the electrical connector of FIG. 7.

(56) **References Cited**

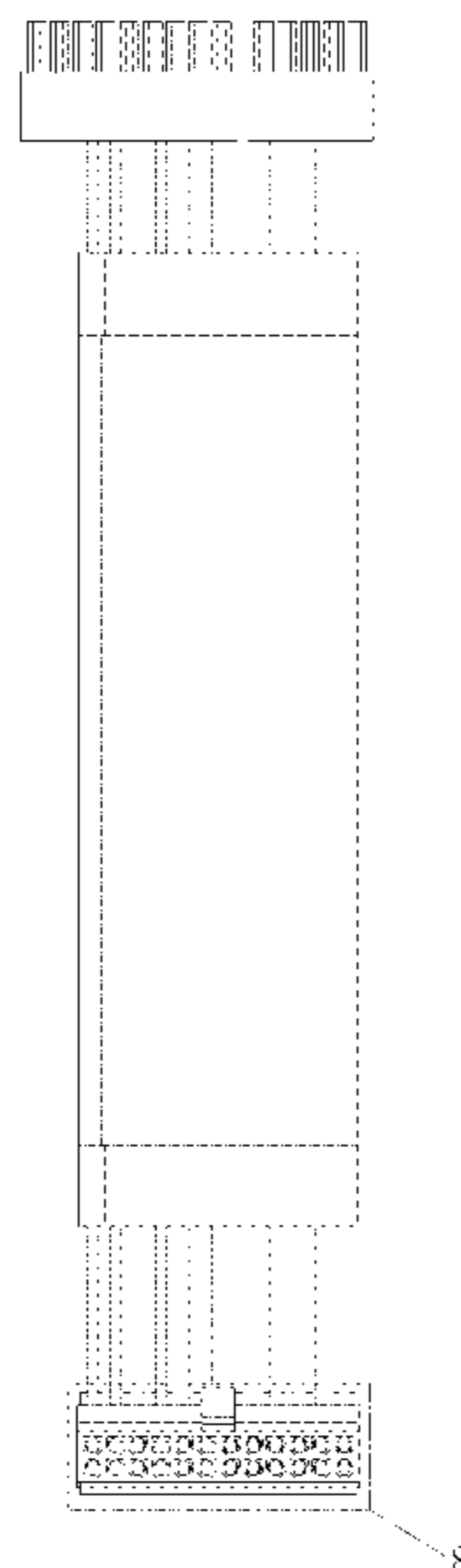
U.S. PATENT DOCUMENTS

D324,203 S * 2/1992 Inaba D13/147
D408,016 S * 4/1999 Tolmie D13/153
6,022,246 A * 2/2000 Ko H01R 13/6456
439/680
D479,199 S * 9/2003 Jones D13/147
D479,508 S * 9/2003 Wang D13/147
D492,259 S * 6/2004 Shi D13/147

The dash-dot broken lines in FIGS. 1 and 7 to 9 depict a boundary of the enlarged partial view of the electrical connector and form no part of the claimed design. The dash-dash broken lines in FIGS. 1-9 depict portions of the electrical connector that form no part of the claimed design.

(Continued)

1 Claim, 9 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

U.S. PATENT DOCUMENTS

D593,033 S * 5/2009 Ogata D13/133
 D594,414 S * 6/2009 Ogata D13/133
 D612,810 S * 3/2010 Bender D13/147
 D640,207 S * 6/2011 Huss, Jr. D13/154
 D640,208 S * 6/2011 Huss, Jr. D13/154
 D718,246 S * 11/2014 Endo D13/147
 D738,826 S * 9/2015 Teramoto D13/147
 D895,552 S * 9/2020 Somanathapura Ramanna
 D13/133
 2012/0184143 A1 * 7/2012 Lai H01R 13/506
 439/625
 2014/0342587 A1 * 11/2014 Wu H01R 13/506
 439/135
 2014/0342595 A1 * 11/2014 Wu H01R 9/2416
 439/456
 2015/0064982 A1 * 3/2015 Wu H01R 13/506
 439/686
 2016/0312919 A1 * 10/2016 Gutgold F16L 3/2235
 2021/0012931 A1 * 1/2021 Enomoto H01B 13/012

10 Circuit, MiniUniversal Mate-N-Lok by TE Connectivity. TE.com.
 Dwg date: May 12, 2004. Retrieval date: Mar. 25, 2021. Retrieved
 from internet:https://www.te.com/commerce/DocumentDelivery/DDEController?Action=showdoc&DocId=Customer+Drawing%7F770580%7FG%7Fpdf%7FEnglish%7FENG_CD_770580_G.pdf%7F770580-1 (Year: 2004).*

18 Circuit, MiniUniversal Mate-N-Lok by TE Connectivity. TE.com.
 Dwg date: May 12, 2004. Retrieval date: Mar. 25, 2021. Retrieved
 from internet:https://www.te.com/commerce/DocumentDelivery/DDEController?Action=showdoc&DocId=Customer+Drawing%7F770584%7FG1%7Fpdf%7FEnglish%7FENG_CD_770584_G1.pdf%7F770584-1 (Year: 2004).*

* cited by examiner

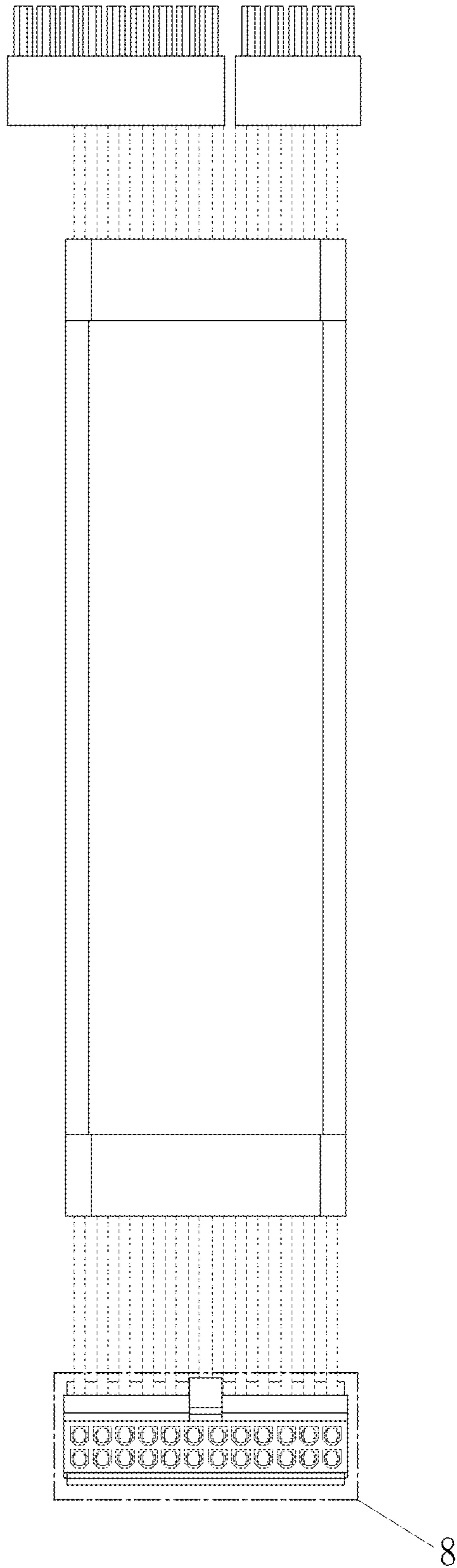


FIG.1

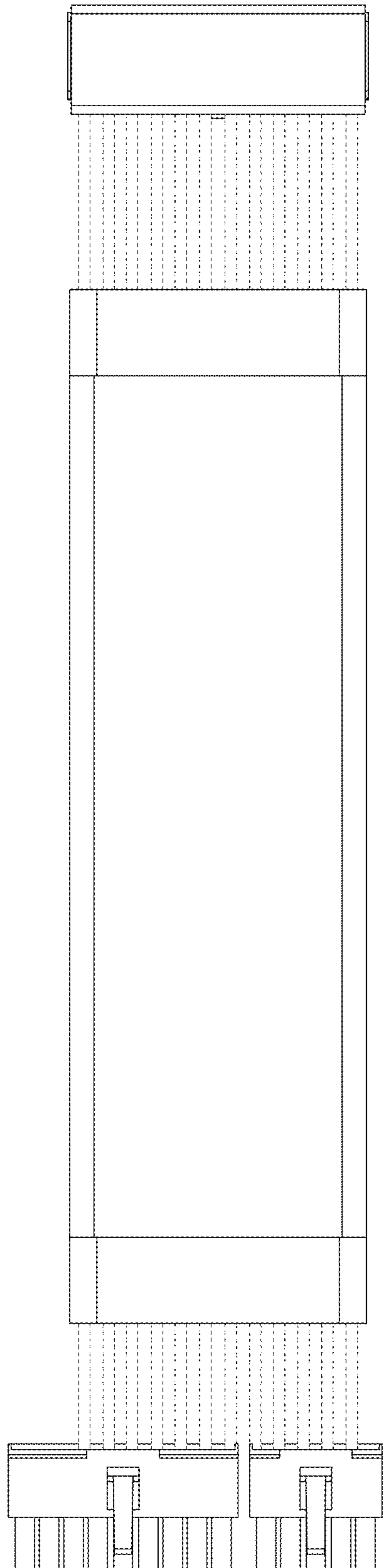


FIG.2

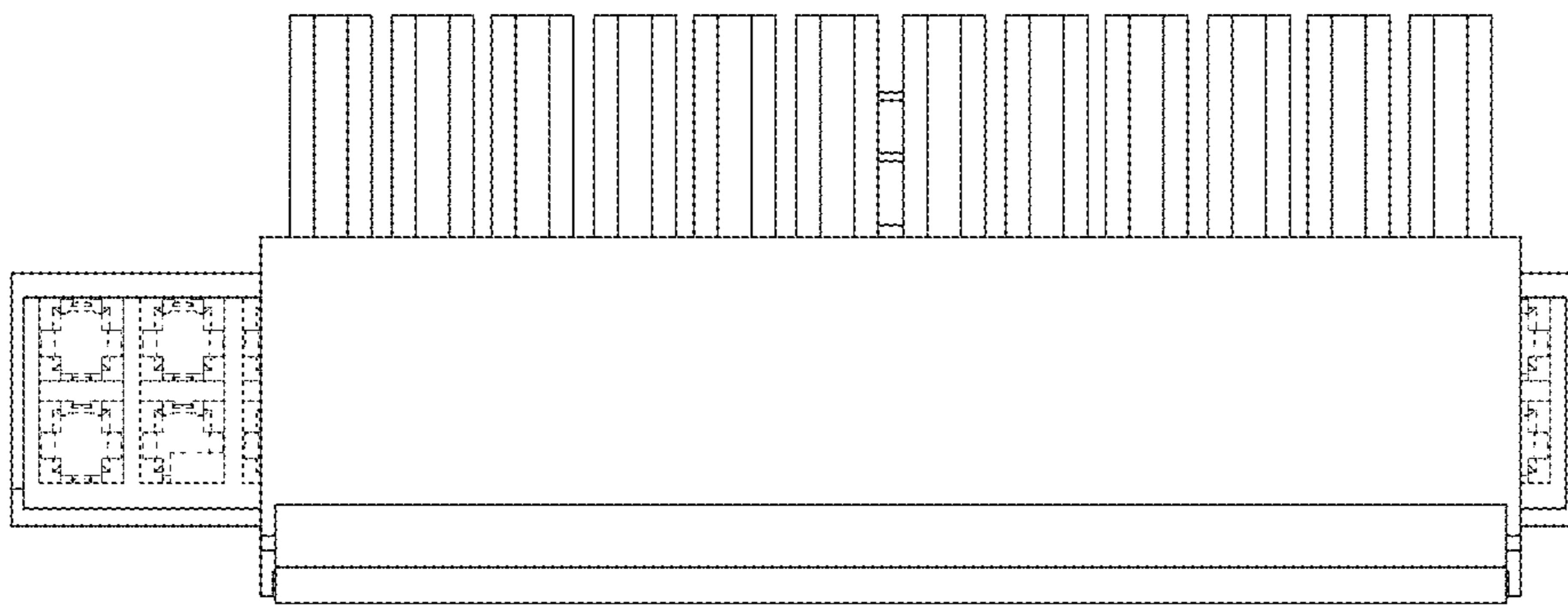


FIG.3

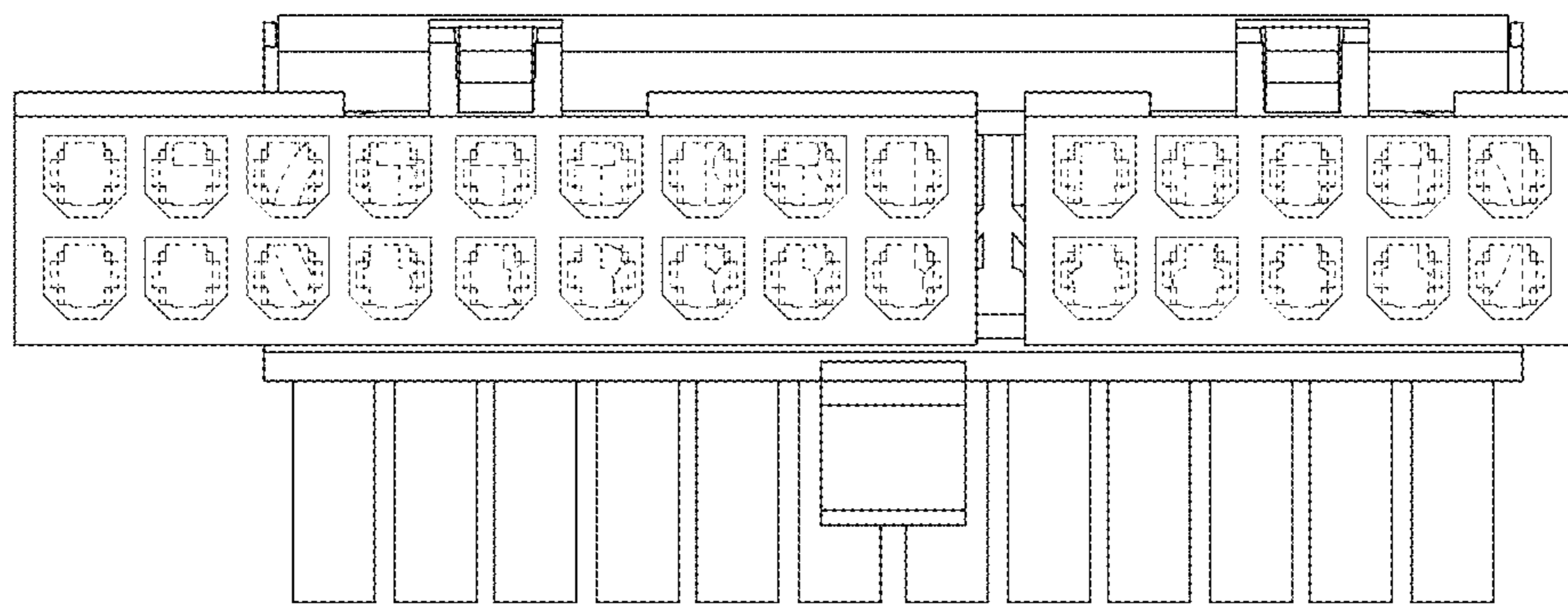


FIG.4

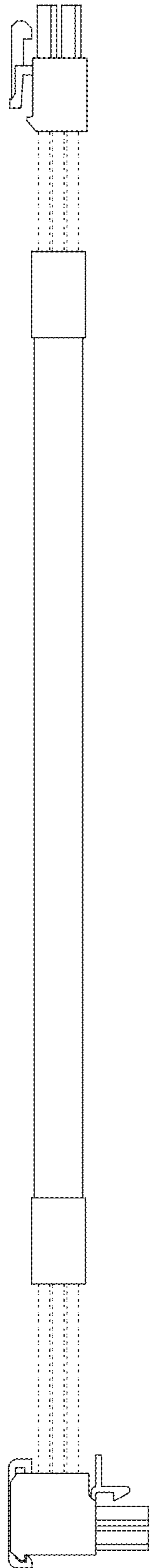


FIG.5

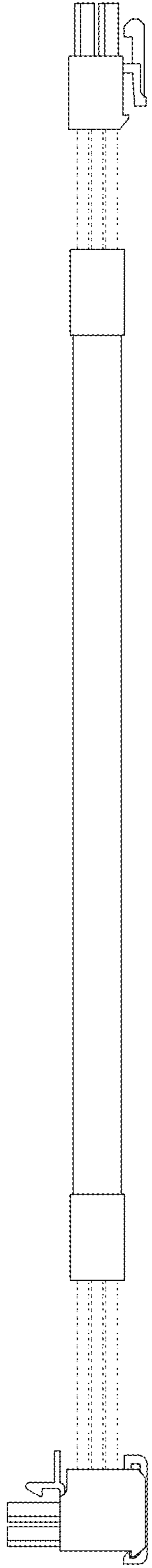
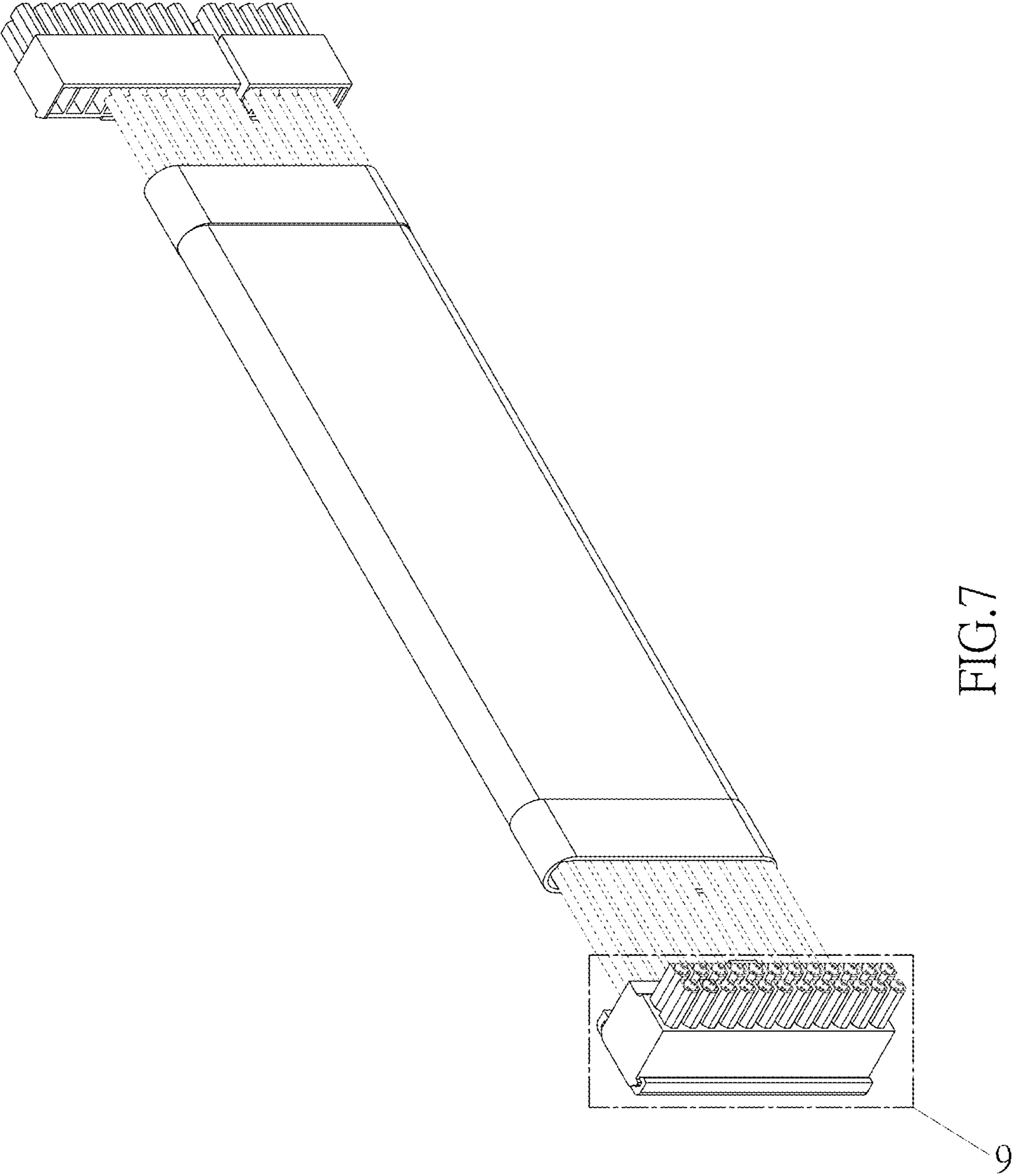


FIG.6



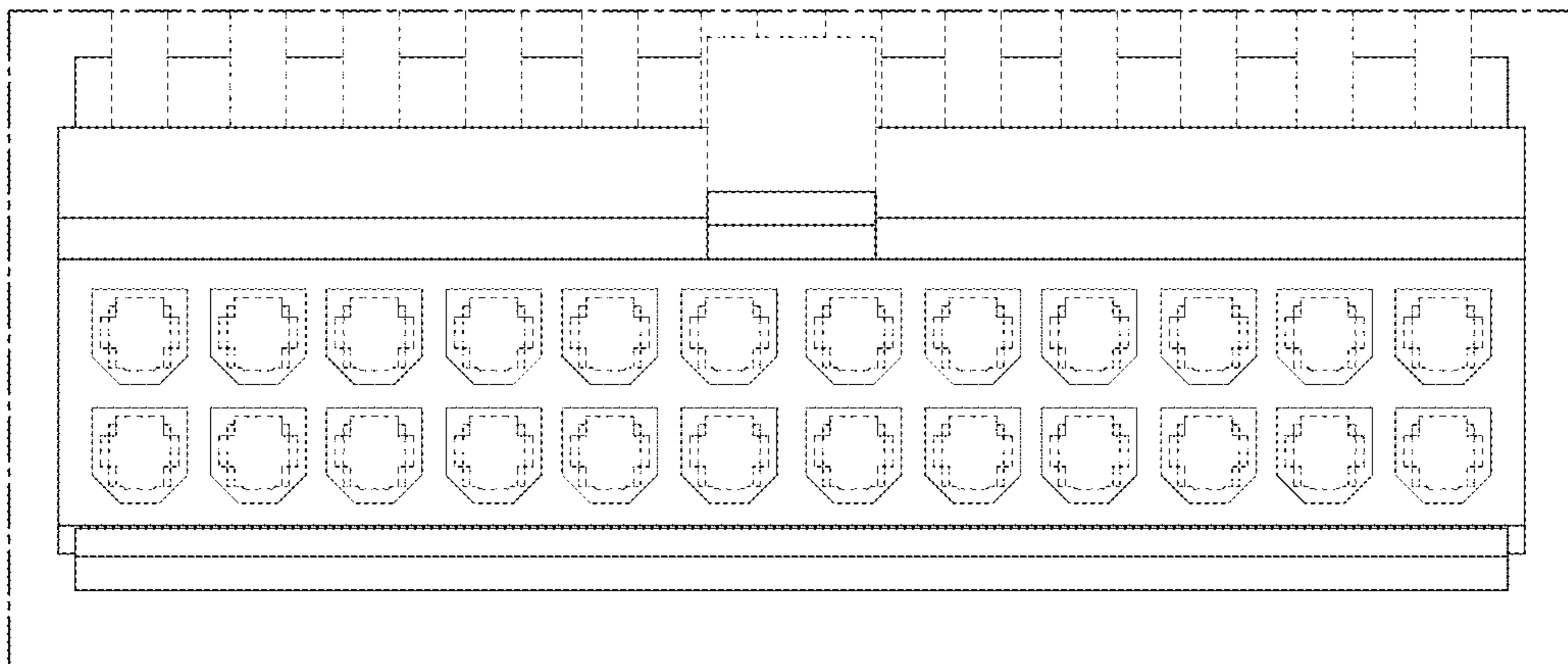


FIG.8

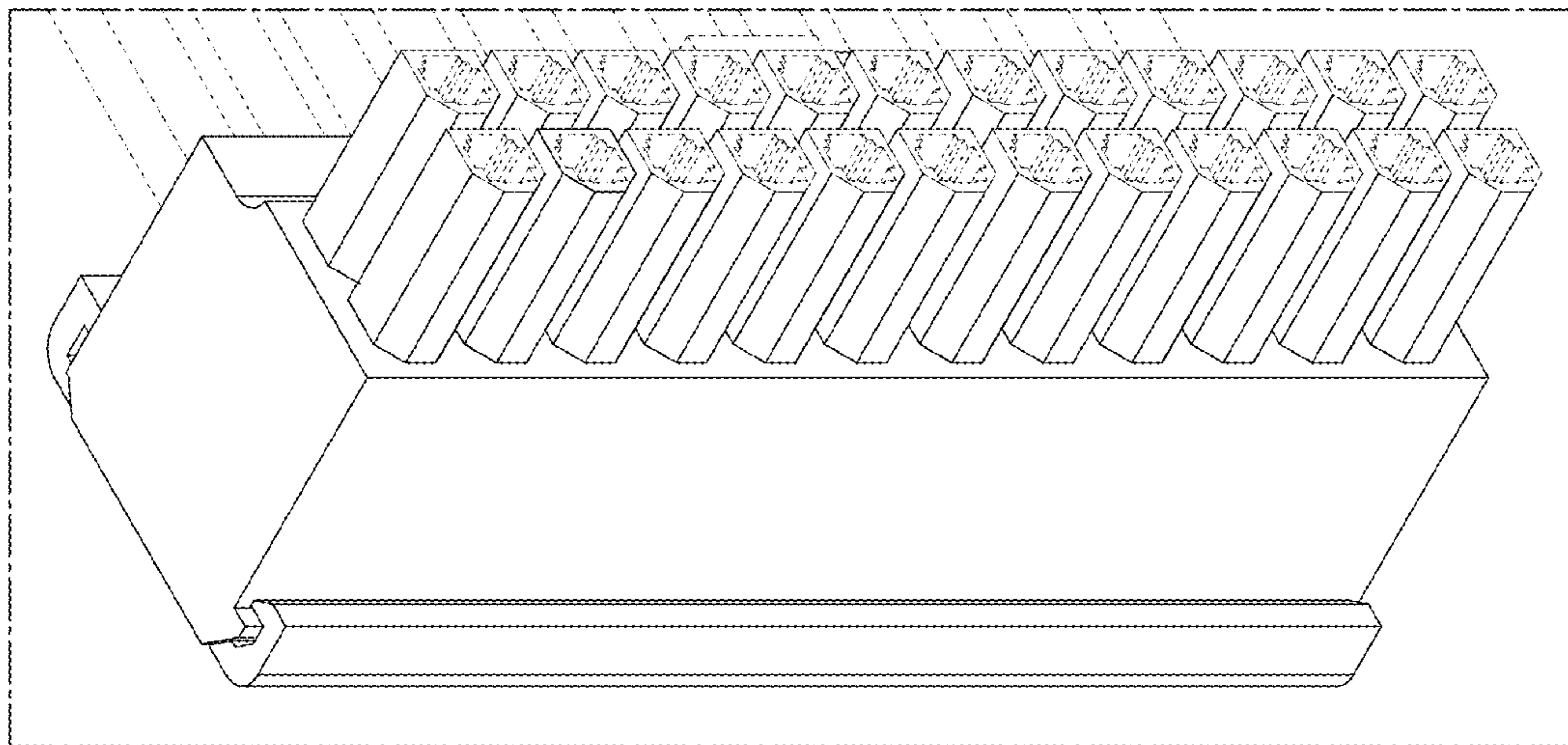


FIG.9