

US00D946987S

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

(10) **Patent No.:** **US D946,987 S**
(45) **Date of Patent:** **** Mar. 29, 2022**

(54) **STRAIGHTENING DEVICE**

9,862,015 B1 * 1/2018 Lin B21D 3/06
10,894,280 B2 * 1/2021 Huang B21D 3/05
2020/0070228 A1 * 3/2020 Tsai B21F 1/02

(71) Applicants: **SHIFUKANG INDUSTRIAL. CO., LTD.**, Taichung (TW); **Gang Chen**, Ningbo (CN); **Chun-Hsien Wu**, Taichung (TW)

FOREIGN PATENT DOCUMENTS

TW 1674157 B 10/2019

(72) Inventor: **Shang-Yuan Huang**, Taichung (TW)

OTHER PUBLICATIONS

(73) Assignees: **SHIFUKANG INDUSTRIAL. CO., LTD.**, Taichung (TW); **Gang Chen**, Ningbo (CN); **Chun-Hsien Wu**, Taichung (TW)

Titan 85521 Tube straightener, Amazon.com, Date First Available Aug. 27, 2021.*
4Lifetimes Tubing Straightener, Amazon.com First Available Apr. 24, 2020.*

* cited by examiner

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

Primary Examiner — Philip S Hyder

(21) Appl. No.: **29/752,968**

(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

(22) Filed: **Sep. 29, 2020**

(51) **LOC (13) Cl.** **08-05**

(52) **U.S. Cl.**
USPC **D8/51**

(57) **CLAIM**

I claim the ornamental design for a straightening device, as shown and described.

(58) **Field of Classification Search**

USPC D8/14, 51, 52, 60, 349, 354, 356
CPC B21D 1/02; B21D 3/02; B21D 3/05; B21F 1/02; B21B 13/10; B21B 13/103
See application file for complete search history.

DESCRIPTION

FIG. 1 is a top, front, right perspective view of a straightening device showing my new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a left side view thereof; FIG. 5 is a right side view thereof; FIG. 6 is a top plan view thereof; and, FIG. 7 is a bottom plan view.

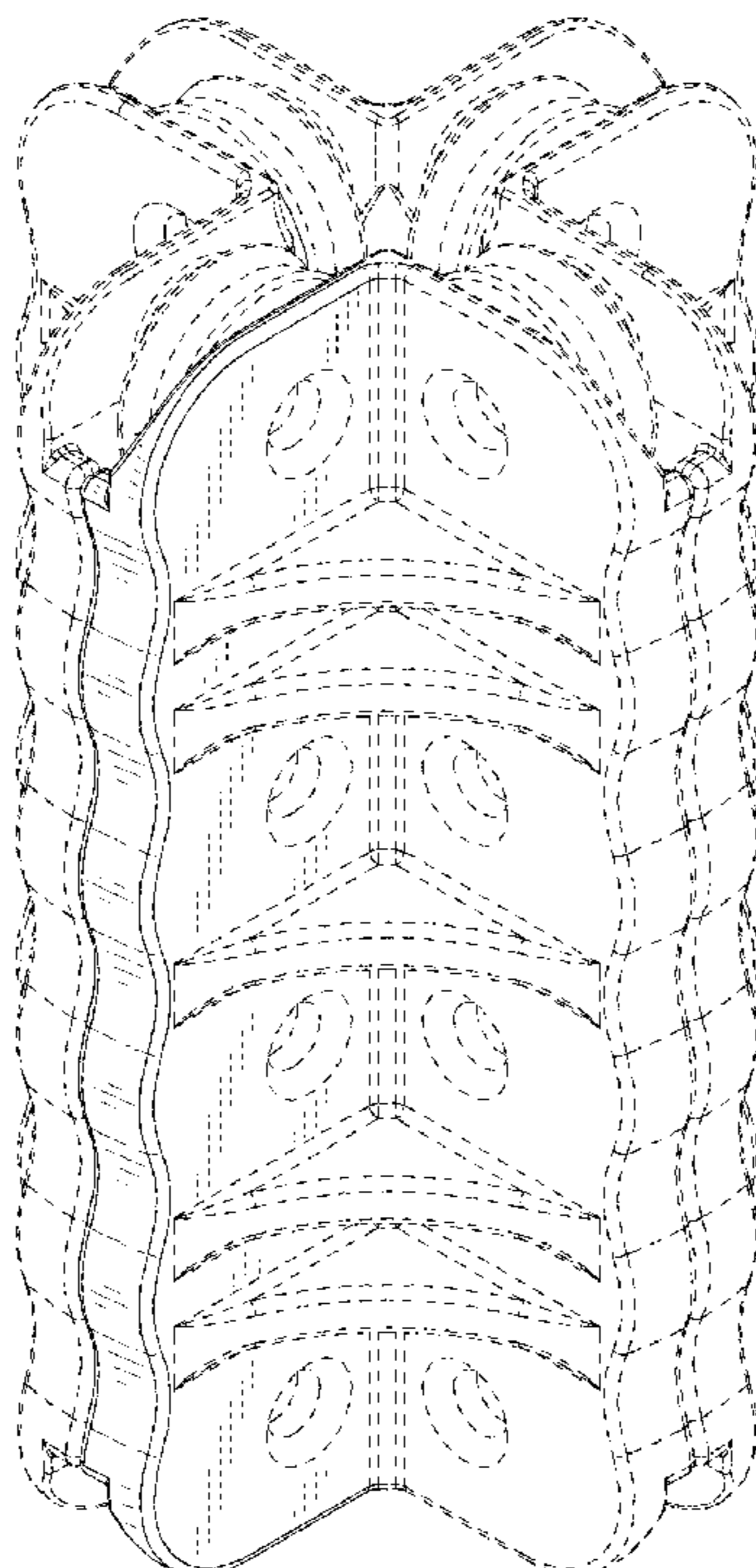
The broken lines in the drawings illustrate portions of the straightening device which form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,740,309 A * 4/1956 Martin, Sr. B21D 7/022
72/458
7,997,347 B2 * 8/2011 McKee B21D 3/05
166/384
9,751,121 B2 * 9/2017 Murphy B21D 3/05

1 Claim, 6 Drawing Sheets



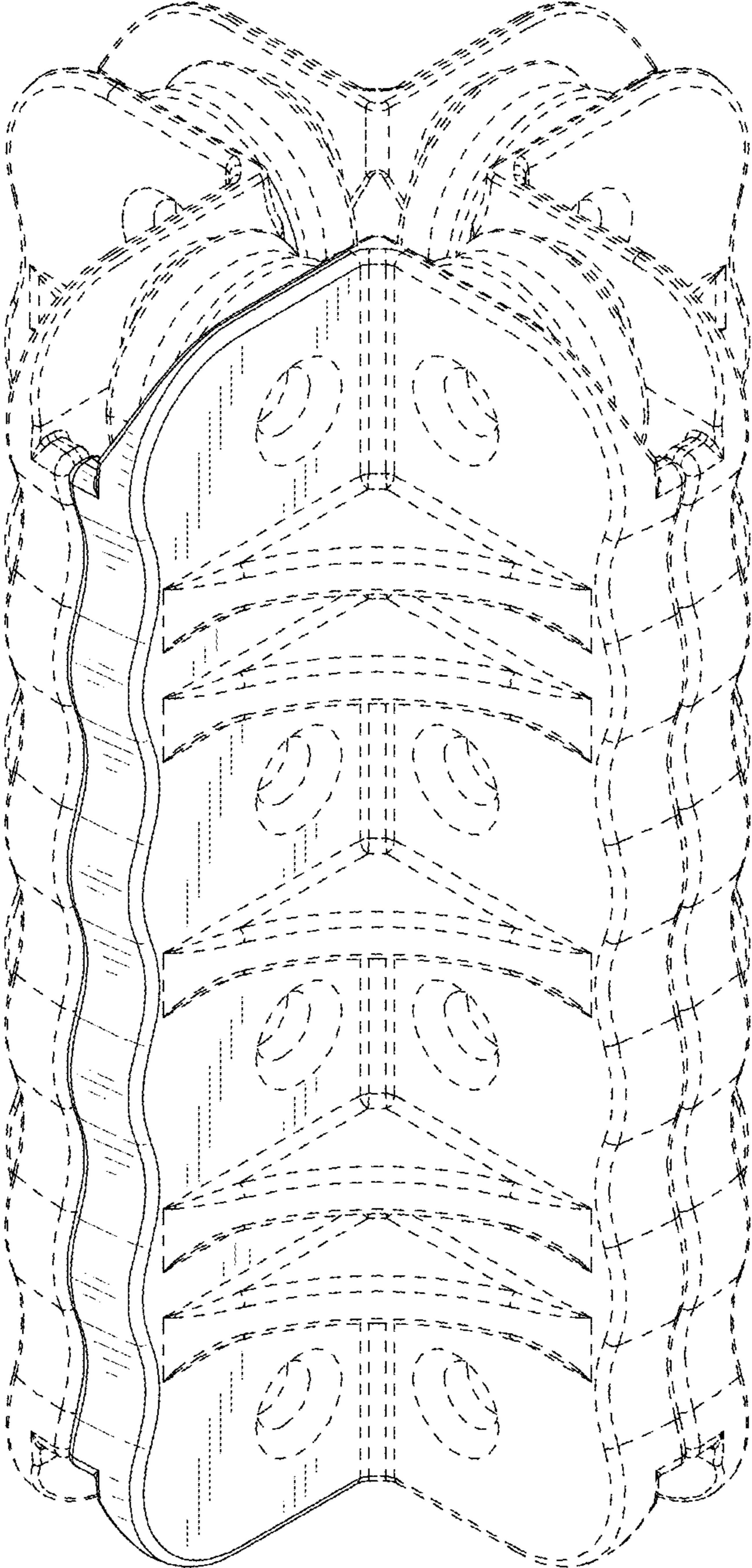


FIG. 1

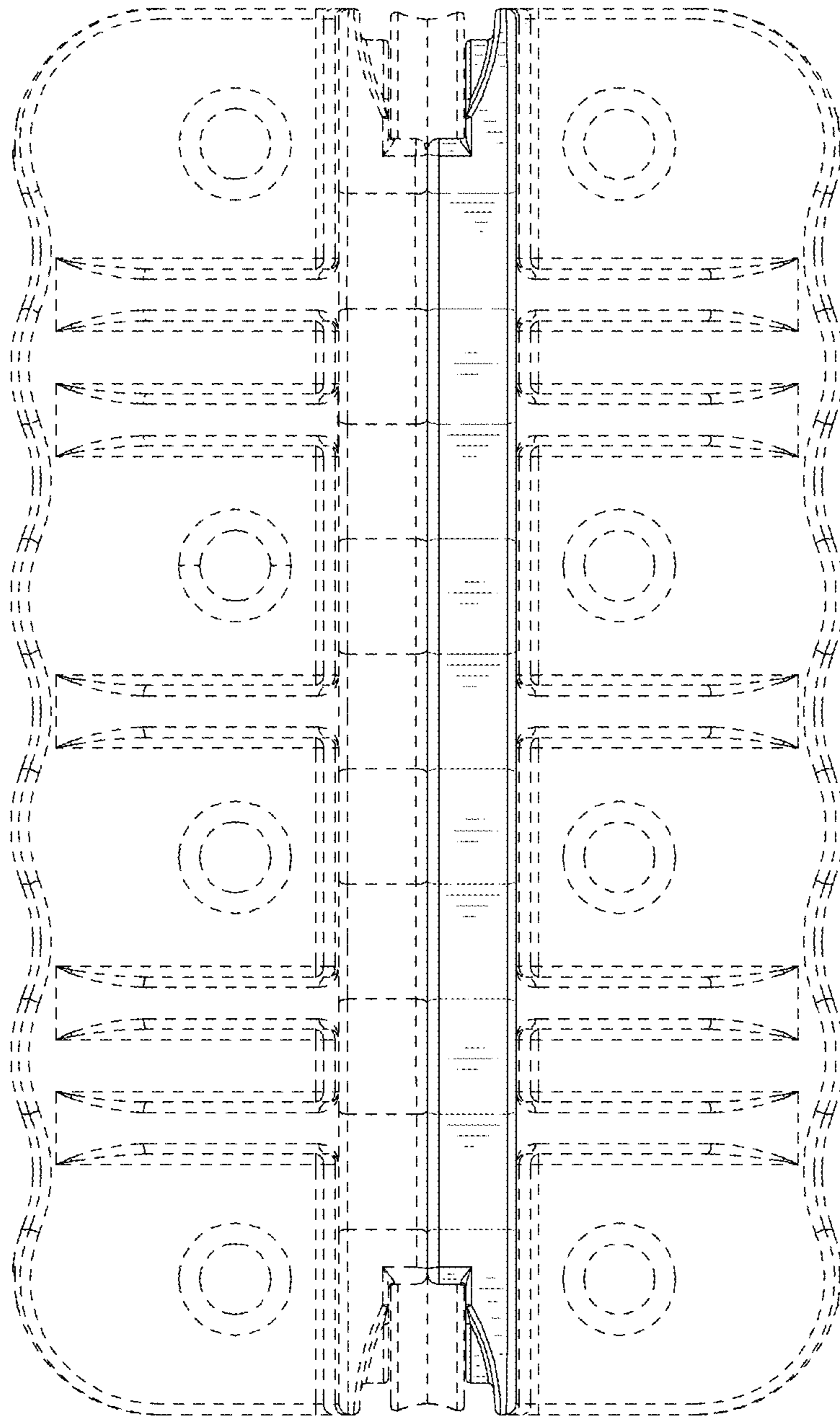


FIG. 2

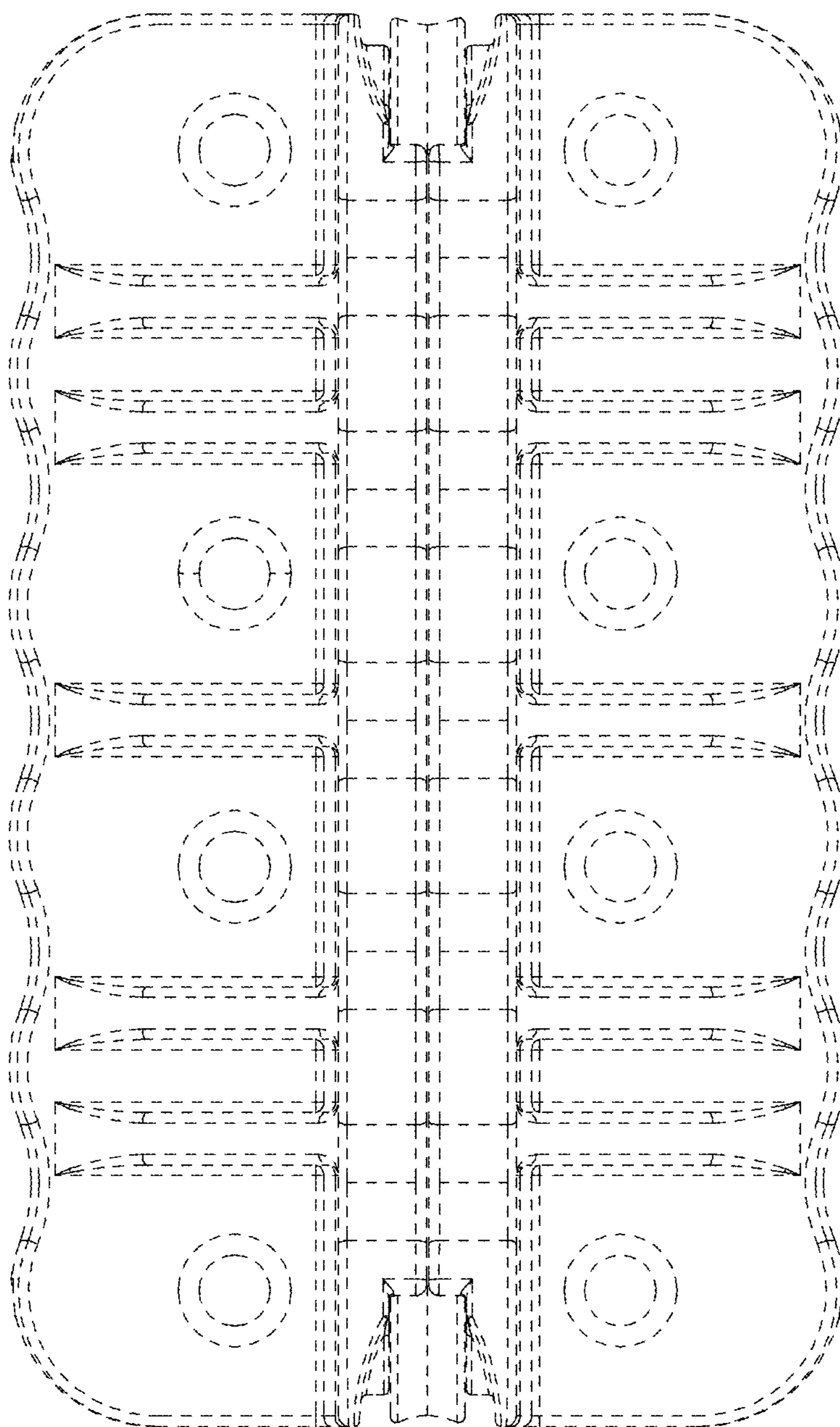


FIG. 3

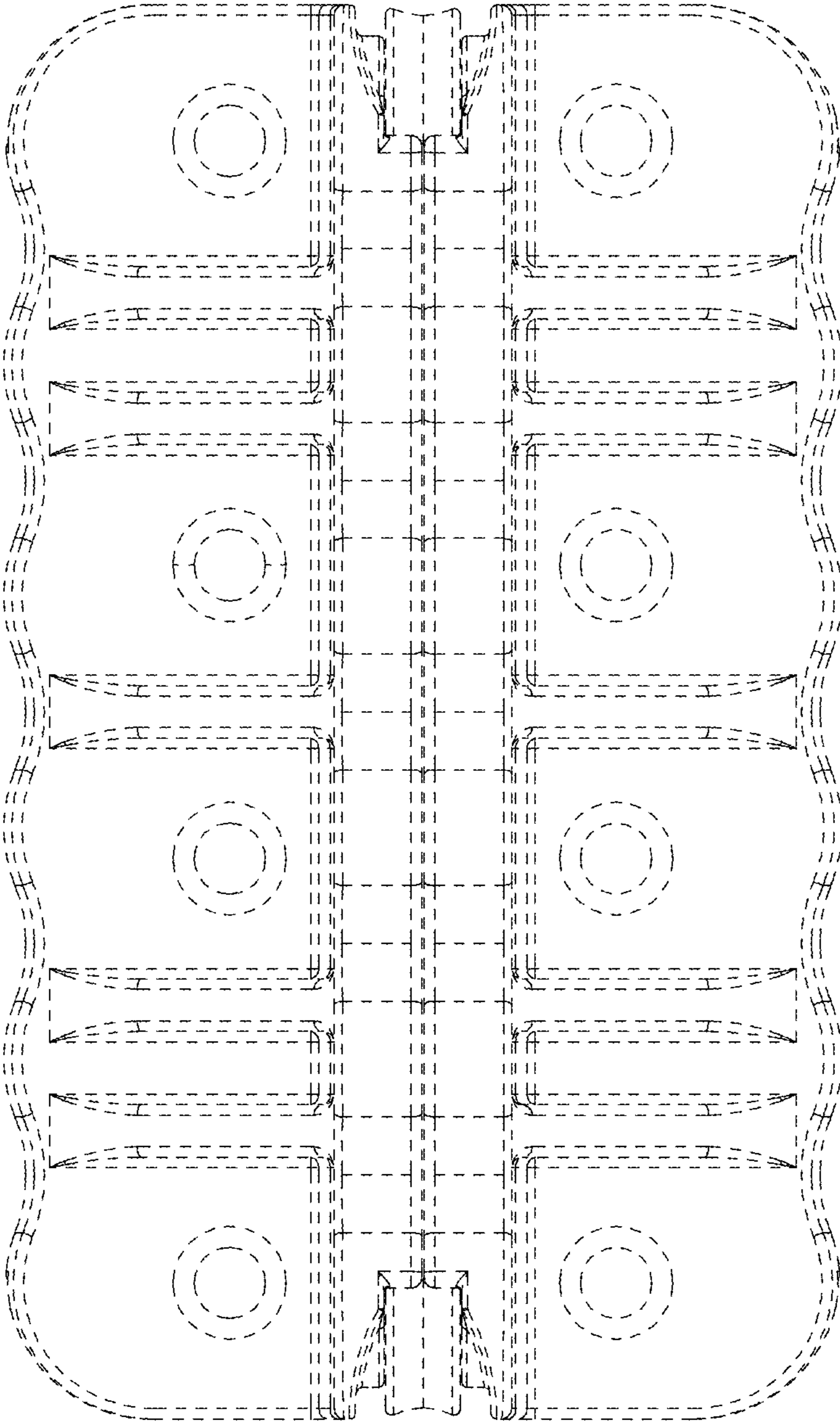


FIG. 4

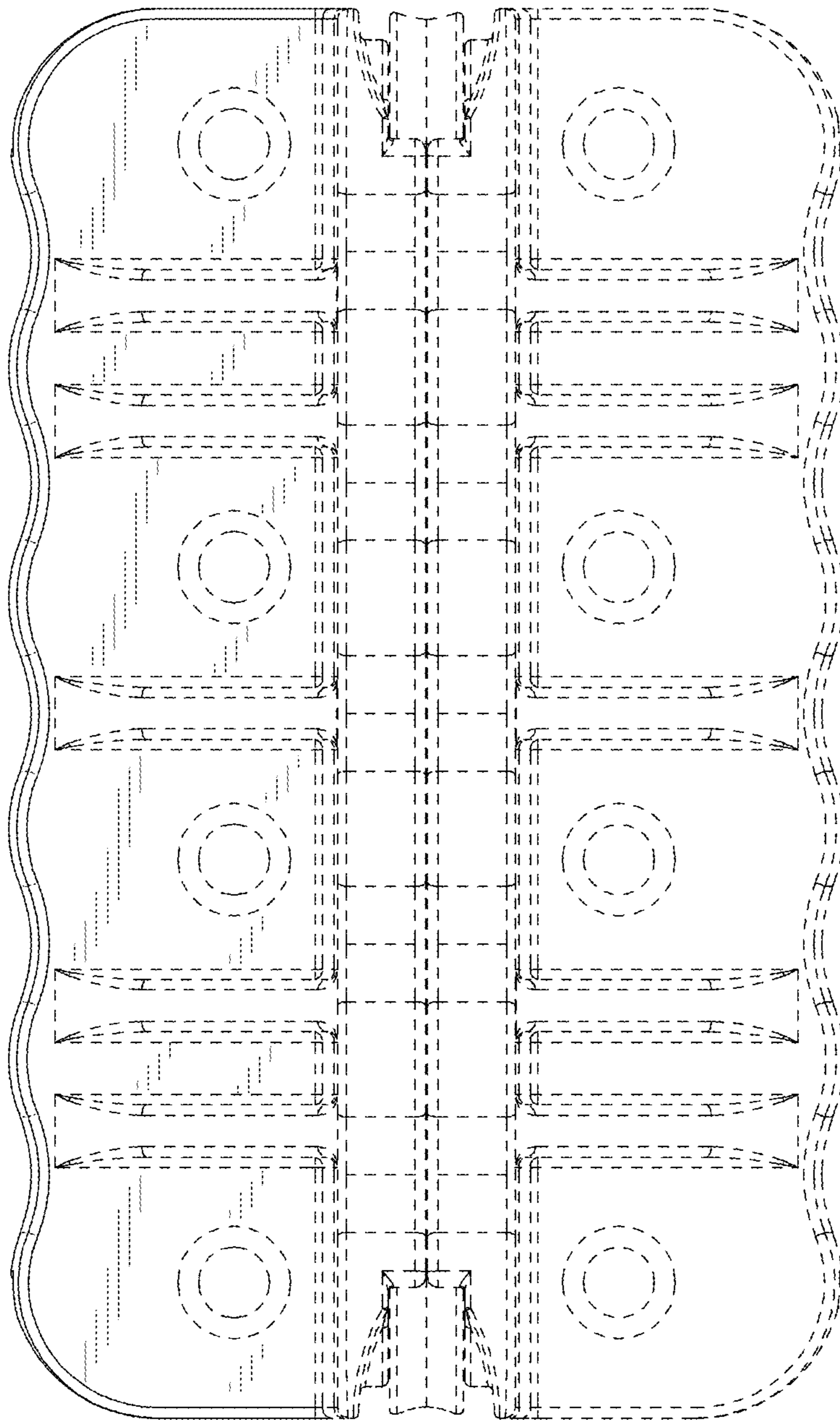


FIG. 5

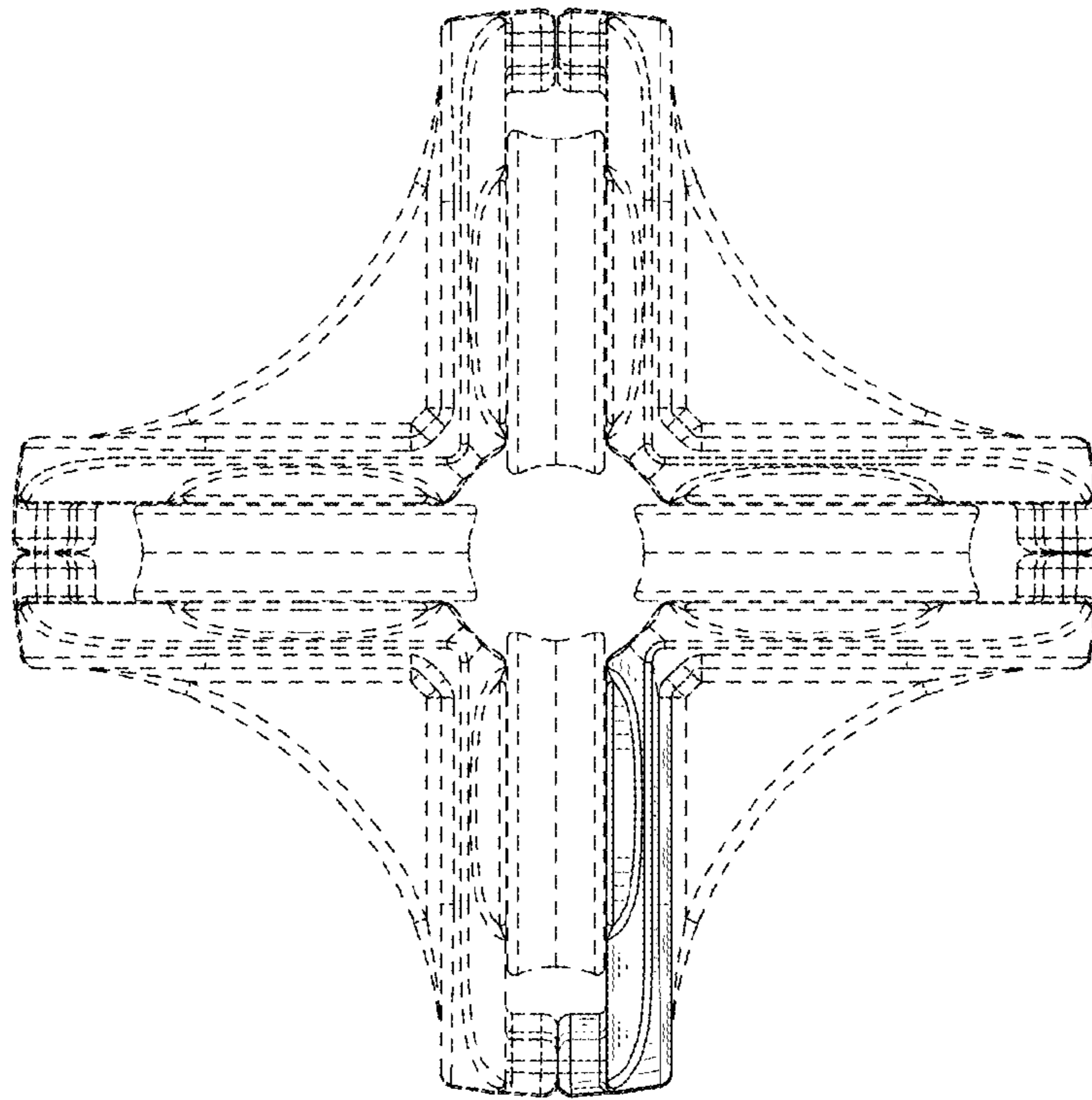


FIG. 6

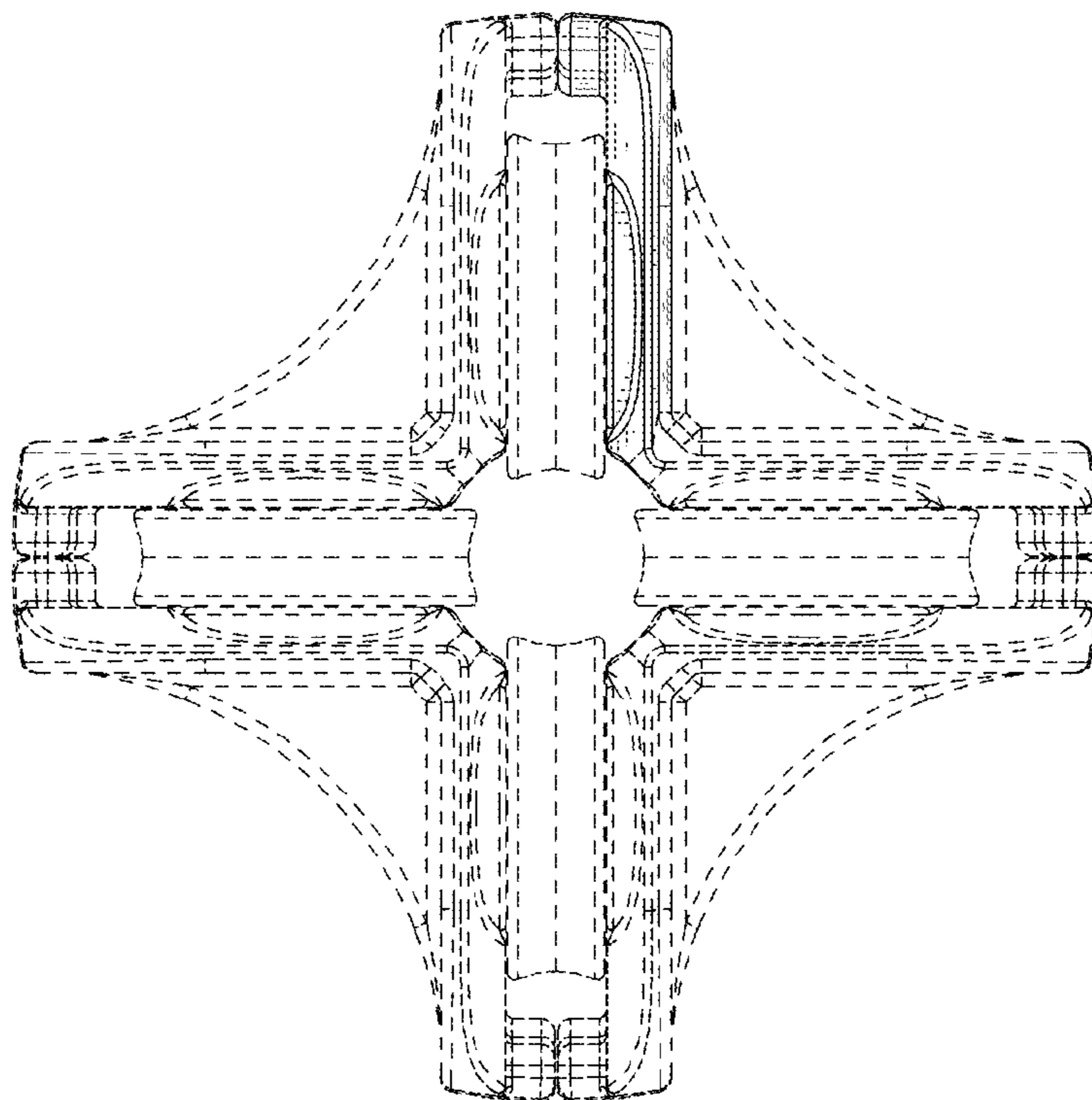


FIG. 7