



US00D794100S

(12) **United States Design Patent** (10) **Patent No.:** **US D794,100 S**
McDonald et al. (45) **Date of Patent:** **** Aug. 8, 2017**

- (54) **AFTERTREATMENT SYSTEM HOUSING** 2007/0039316 A1* 2/2007 Bosanec, Jr. F01N 1/083
60/299
- (71) Applicant: **Cummins Emission Solutions Inc.**, 2008/0060351 A1 3/2008 Pawson et al.
Columbus, IN (US) 2009/0084094 A1 4/2009 Goss et al.
- (72) Inventors: **Carl A. McDonald**, Greenwood, IN 2009/0136387 A1 5/2009 Picton et al.
(US); **Arvind V. Harinath**, Columbus, IN (US); **John G. Buechler**, 2010/0300082 A1 12/2010 Zhang
Indianapolis, IN (US); **Ryan M. Johnson**, Cottage Grove, WI (US); **Randolph G. Zoran**, McFarland, WI (US) 2011/0047973 A1 3/2011 Wilhelm et al.
2011/0052454 A1 3/2011 Kato
2012/0004863 A1 1/2012 Ardanese et al.
2012/0210697 A1 8/2012 Garimella et al.
2013/0125524 A1 5/2013 Plummer et al.
2013/0213008 A1 8/2013 Kumar et al.
2014/0007562 A1 1/2014 Justin
2014/0260202 A1 9/2014 Bays et al.
2014/0262590 A1* 9/2014 Daborn F01N 3/035
180/309
- (73) Assignee: **CUMMINS EMISSION SOLUTIONS INC.**, Columbus, IN (US) (Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/540,794**

PCT/US2015/067324, Dec. 22, 2015, Liu.

(22) Filed: **Sep. 28, 2015**

(Continued)

(51) **LOC (10) Cl.** **15-09**

Primary Examiner — Patricia Palasik

(52) **U.S. Cl.**

(74) *Attorney, Agent, or Firm* — Foley & Lardner LLP

USPC **D15/138**; D23/265

(57) **CLAIM**

(58) **Field of Classification Search**

We claim the ornamental design for an aftertreatment system housing, as shown and described.

USPC D15/5, 138, 199; D23/625

CPC F01N 3/021; F01N 3/2006; F01N 3/2066;

F01N 2550/02; F01N 2560/021; F01N

2560/026; F01N 2610/00; Y02T 10/24;

Y02T 10/26

See application file for complete search history.

DESCRIPTION

(56) **References Cited**

FIG. 1 is a top, front, left perspective view of the claimed design;

FIG. 2 is a top plan view thereof;

FIG. 3 is a bottom plan view thereof;

FIG. 4 is a front view thereof;

FIG. 5 is a rear view thereof;

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

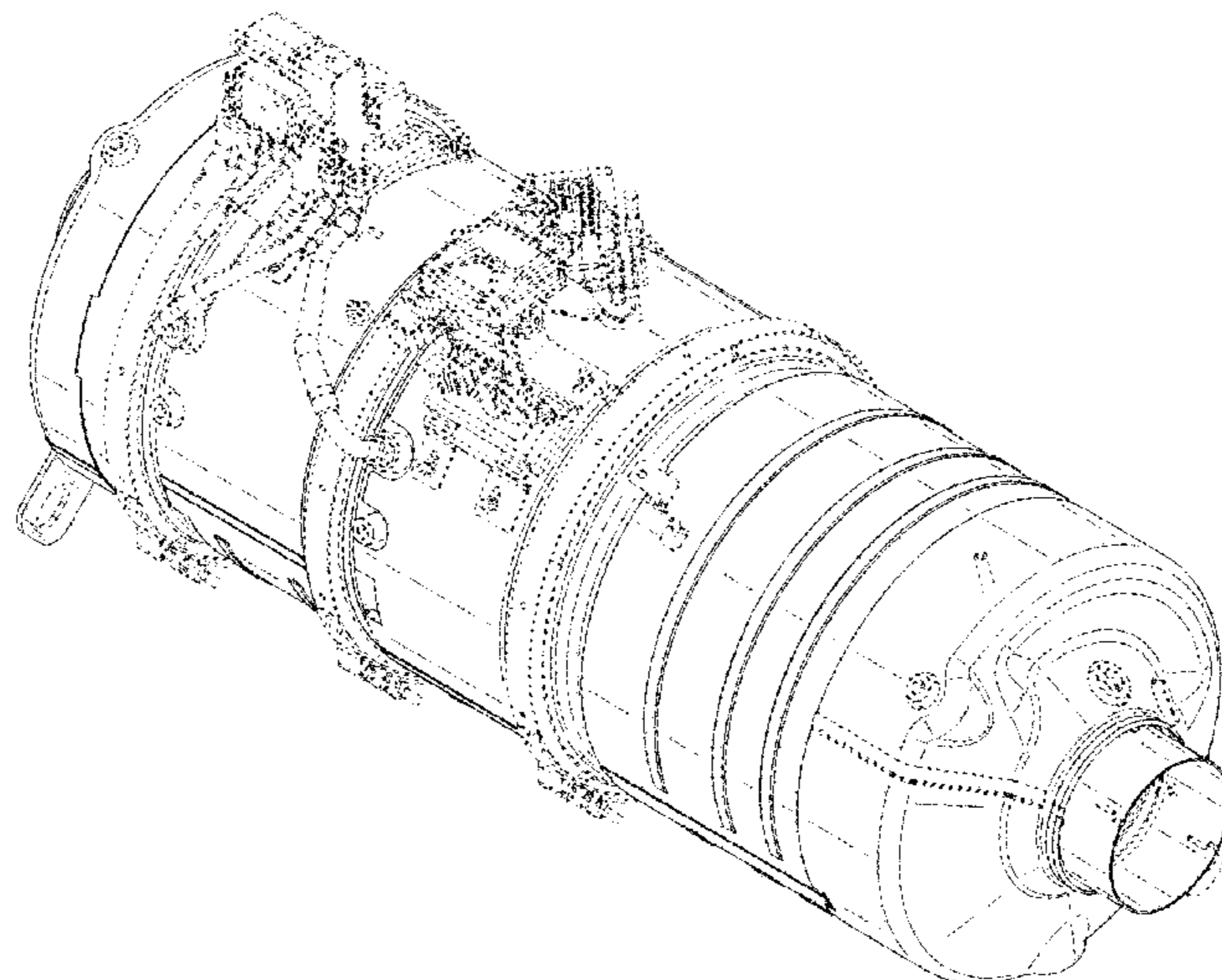
FIG. 7 is a right elevation view thereof.

The broken lines in the drawings depict unclaimed environmental subject matter.

U.S. PATENT DOCUMENTS

- 4,673,423 A 6/1987 Yumlu
- 5,043,146 A 8/1991 Ishikawa et al.
- 5,611,832 A 3/1997 Suzuki et al.
- D590,419 S * 4/2009 Duffek D15/5
- 8,609,047 B2 12/2013 Dotzel et al.
- D702,735 S * 4/2014 Sandou D15/5
- D757,919 S * 5/2016 Kimura D23/365

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2014/0363358 A1 12/2014 Udd et al.
2014/0373721 A1* 12/2014 Sandou F01N 3/0211
96/421
2015/0000389 A1* 1/2015 Runde F01N 13/008
73/114.75
2015/0224870 A1* 8/2015 Shin B60K 13/04
248/201
2016/0069239 A1* 3/2016 Freeman F01N 3/2066
60/324
2016/0076430 A1* 3/2016 Freeman F01N 3/2066
60/301
2016/0115847 A1* 4/2016 Chapman F01N 3/2892
60/324
2016/0245207 A1* 8/2016 Ball F01N 3/0835
2016/0326931 A1* 11/2016 Freeman F01N 3/2066
2017/0036165 A1* 2/2017 Schmid B01D 53/9431
2017/0043295 A1* 2/2017 Minezawa B01D 53/94
2017/0074146 A1* 3/2017 Maletic F01N 3/103
2017/0089248 A1* 3/2017 Evans F01N 13/08

OTHER PUBLICATIONS

PCT/US2015/067317, Dec. 22, 2015, Zoran.
PCT/US2015/067302, Dec. 22, 2015, Zoran.
International Search Report and Written Opinion for PCT/US2015/
067302, Issued Mar. 11, 2016, 10 pages.
International Search Report and Written Opinion for PCT/US2015/
067317, issued Apr. 22, 2016, 18 pages.
International Search Report and Written Opinion for PCT/US2015/
067324, Issued Feb. 23, 2016, 8 pages.

* cited by examiner

FIG. 1

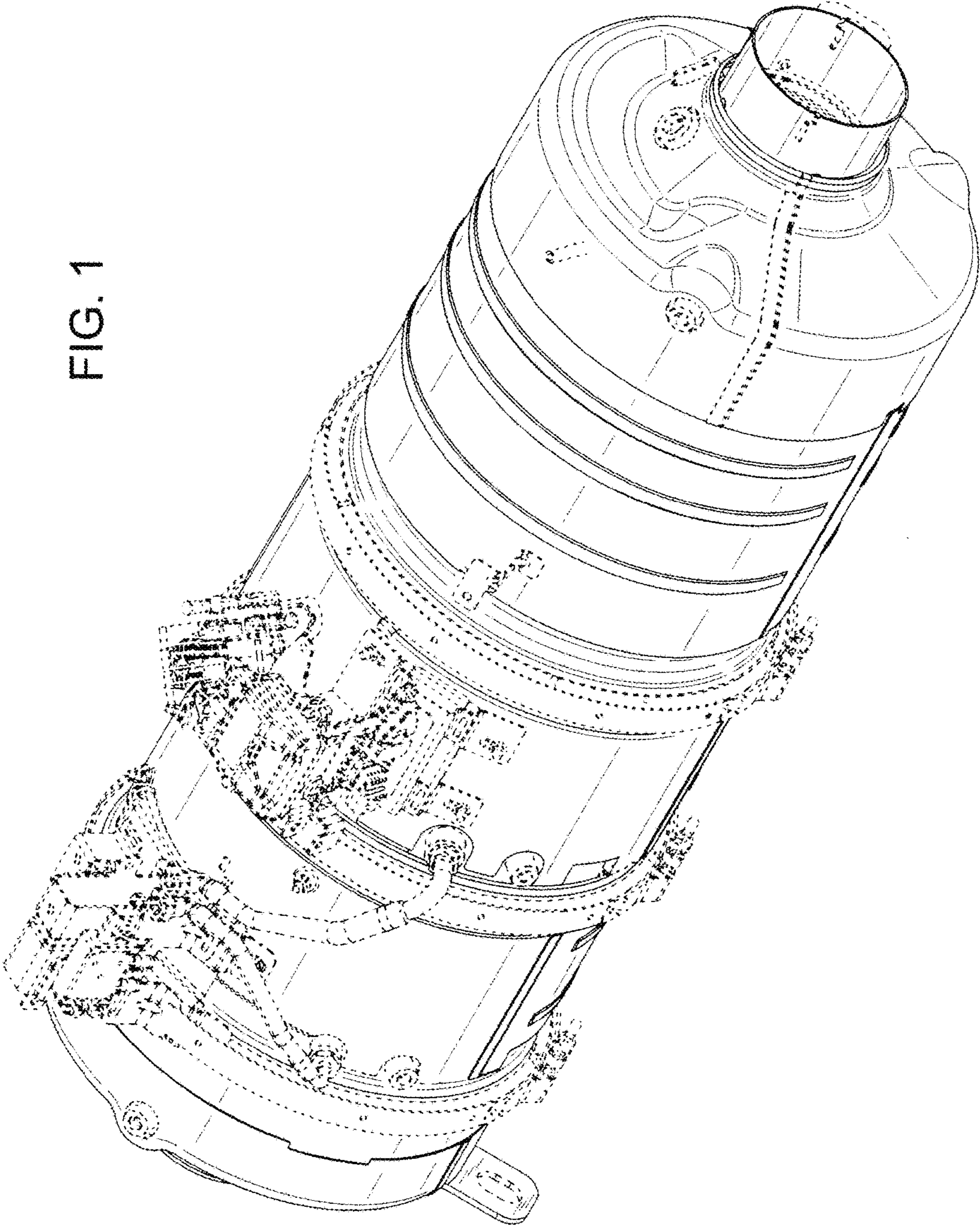


FIG. 2

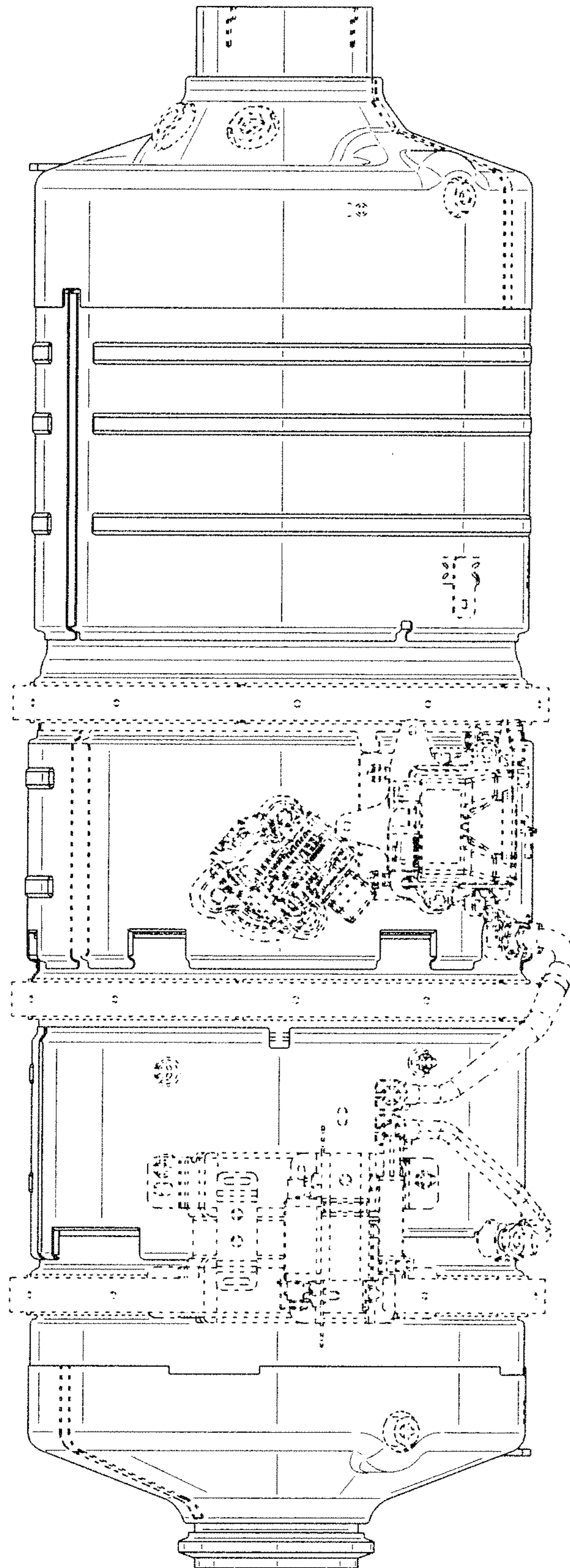


FIG. 3

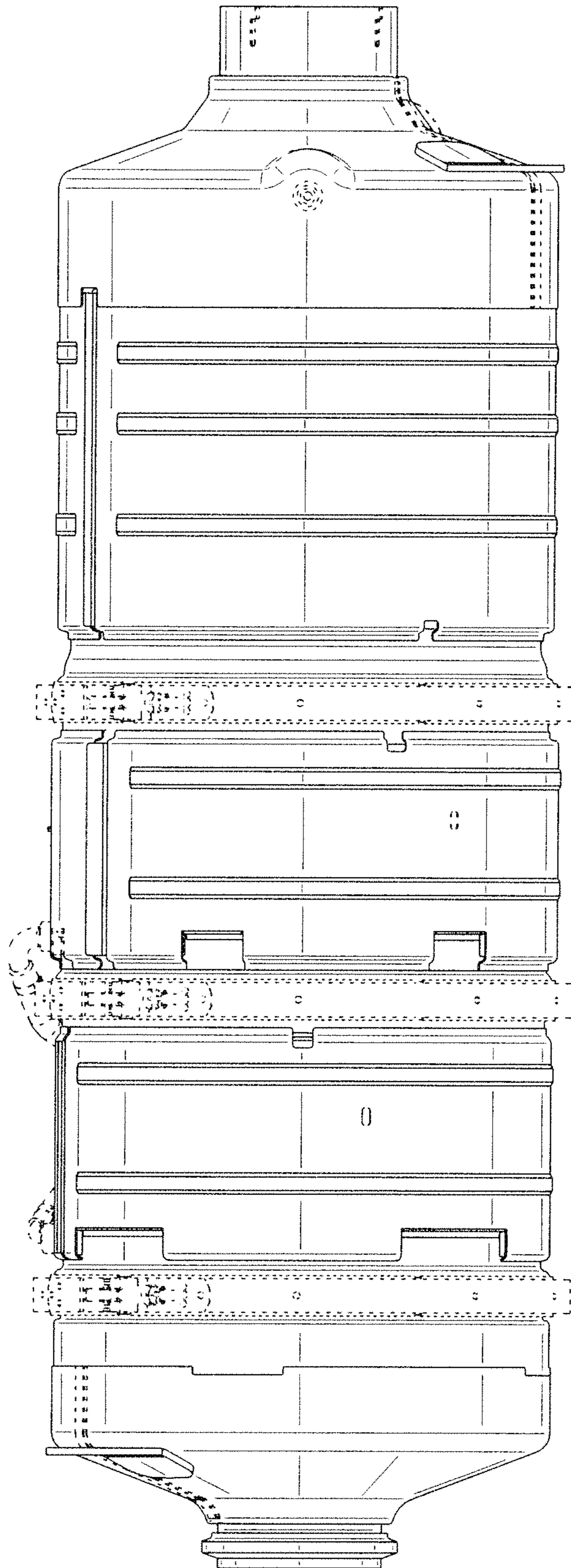


FIG. 4

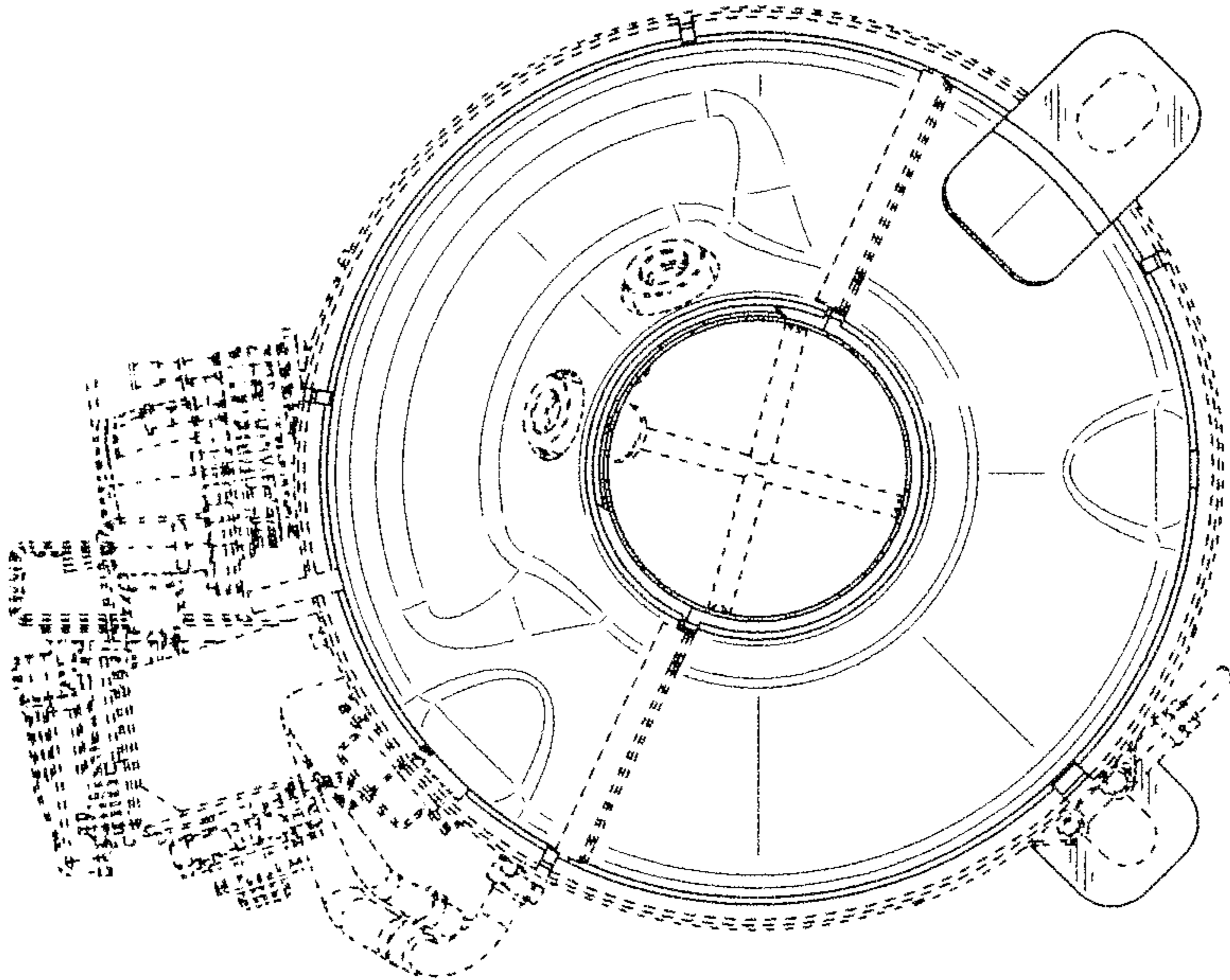


FIG. 5

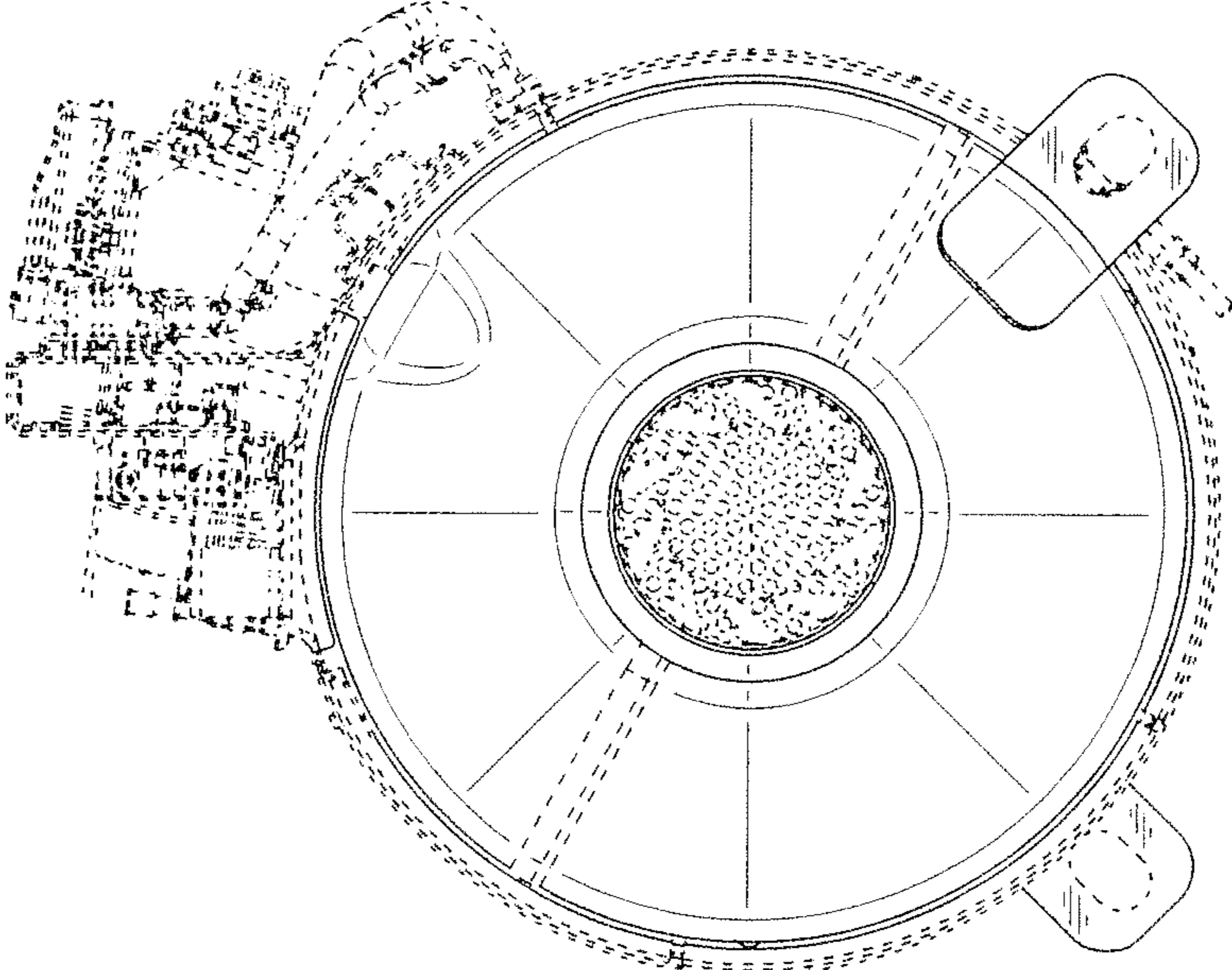


FIG. 6

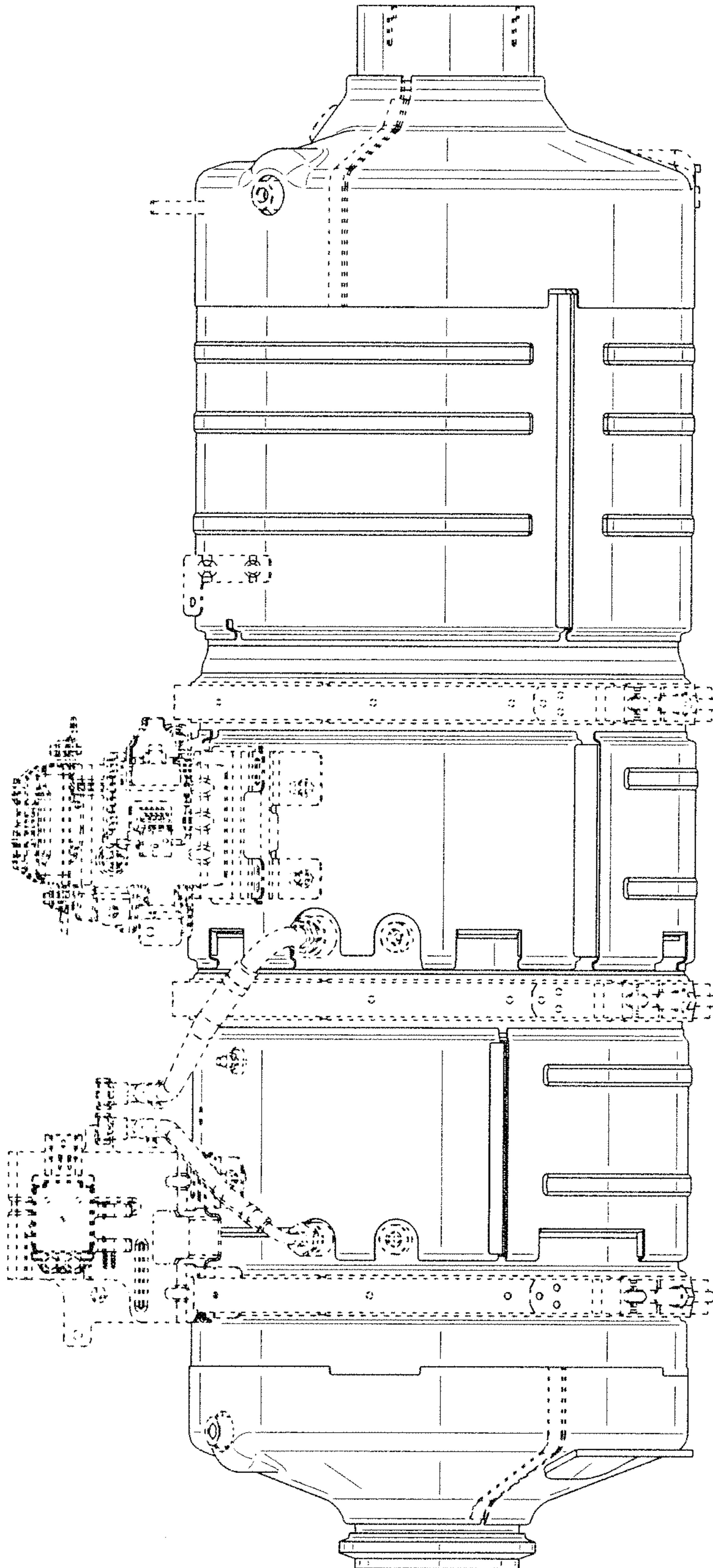


FIG. 7

