



US00D966431S

(12) **United States Design Patent**
Pisor et al.(10) **Patent No.:** US D966,431 S
(45) **Date of Patent:** ** Oct. 11, 2022(54) **PROJECTILE LAUNCHER**

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- (72) Inventors: **Henry Pisor**, Chicago, IL (US); **David Pisor**, Chicago, IL (US)
- (73) Assignee: **H.P. SHELBY MANUFACTURING LTD.**, Chicago, IL (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/763,990**
- (22) Filed: **Dec. 28, 2020**
- (51) LOC (13) Cl. 21-01
- (52) U.S. Cl. **D21/573**
- (58) **Field of Classification Search**
USPC D22/100, 103, 108, 109; D21/567, 570,
D21/573

(Continued)

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(Continued)

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"Shelby Destroyer foam disc blaster trailer" [online], H.P. Shelby Manufacturing Ltd. [Published on Mar. 19, 2021]. Retrieved from the Internet: <<https://www.youtube.com/watch?v=T1Bd7iv8fk0>>.*

Primary Examiner — Mojtaba Tehrani

(74) *Attorney, Agent, or Firm* — Flener IP & Business Law; Zareefa B. Flener; Ayhan E. Mertoglu

(57) **CLAIM**

The ornamental design for a projectile launcher, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view showing a first embodiment of our new design for a projectile launcher;
FIG. 2 is a left side view of the design of FIG. 1;
FIG. 3 is a right side view of the design of FIG. 1;
FIG. 4 is a top plan view of the design of FIG. 1;
FIG. 5 is a bottom plan view of the design of FIG. 1;
FIG. 6 is a rear elevational view of the design of FIG. 1;
FIG. 7 is a front elevational view of the design of FIG. 1;
FIG. 8 is an exploded perspective view of the design of FIG. 1 showing the battery component, the launcher component, and the magazine component;
FIG. 9 is a top perspective view of the launcher component of FIG. 8;
FIG. 10 is a left side view of the launcher component of FIG. 8;
FIG. 11 is a right side view of the launcher component of FIG. 8;
FIG. 12 is a top plan view of the launcher component of FIG. 8;
FIG. 13 is a bottom plan view of the launcher component of FIG. 8;
FIG. 14 is a front elevational view of the launcher component of FIG. 8;
FIG. 15 is a rear elevational view of the launcher component of FIG. 8;
FIG. 16 is a left side view of the design of FIG. 1 in a second configuration;
FIG. 17 is a left side view of the design of FIG. 1 in a third configuration;
FIG. 18 is a top perspective view of the battery component of FIG. 8;
FIG. 19 is a front elevational view of the battery component of FIG. 8;
FIG. 20 is a rear elevational view of the battery component of FIG. 8;
FIG. 21 is a right side view of the battery component of FIG. 8;
FIG. 22 is a left side view of the battery component of FIG. 8;
FIG. 23 is a bottom plan view of the battery component of FIG. 8;

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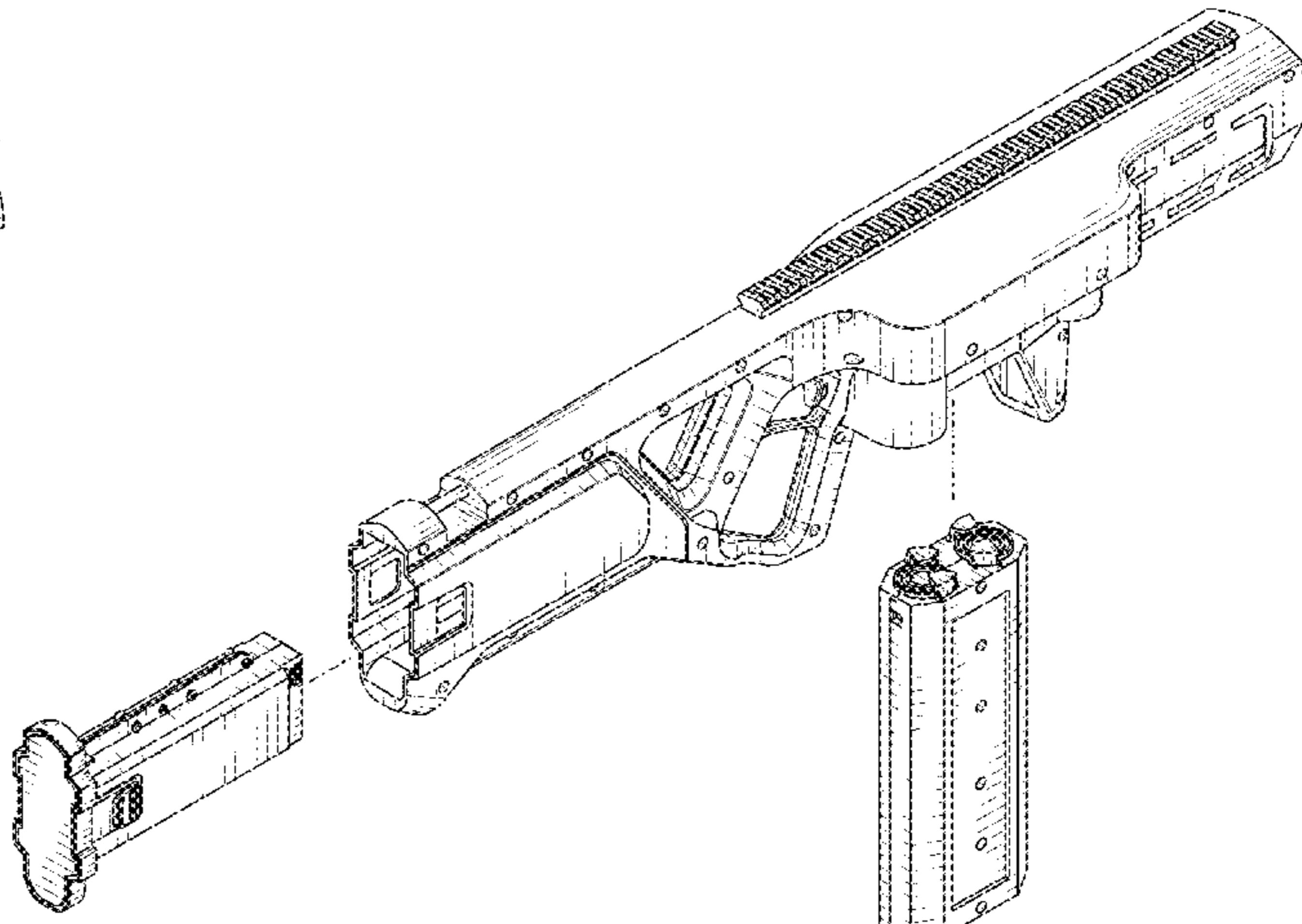
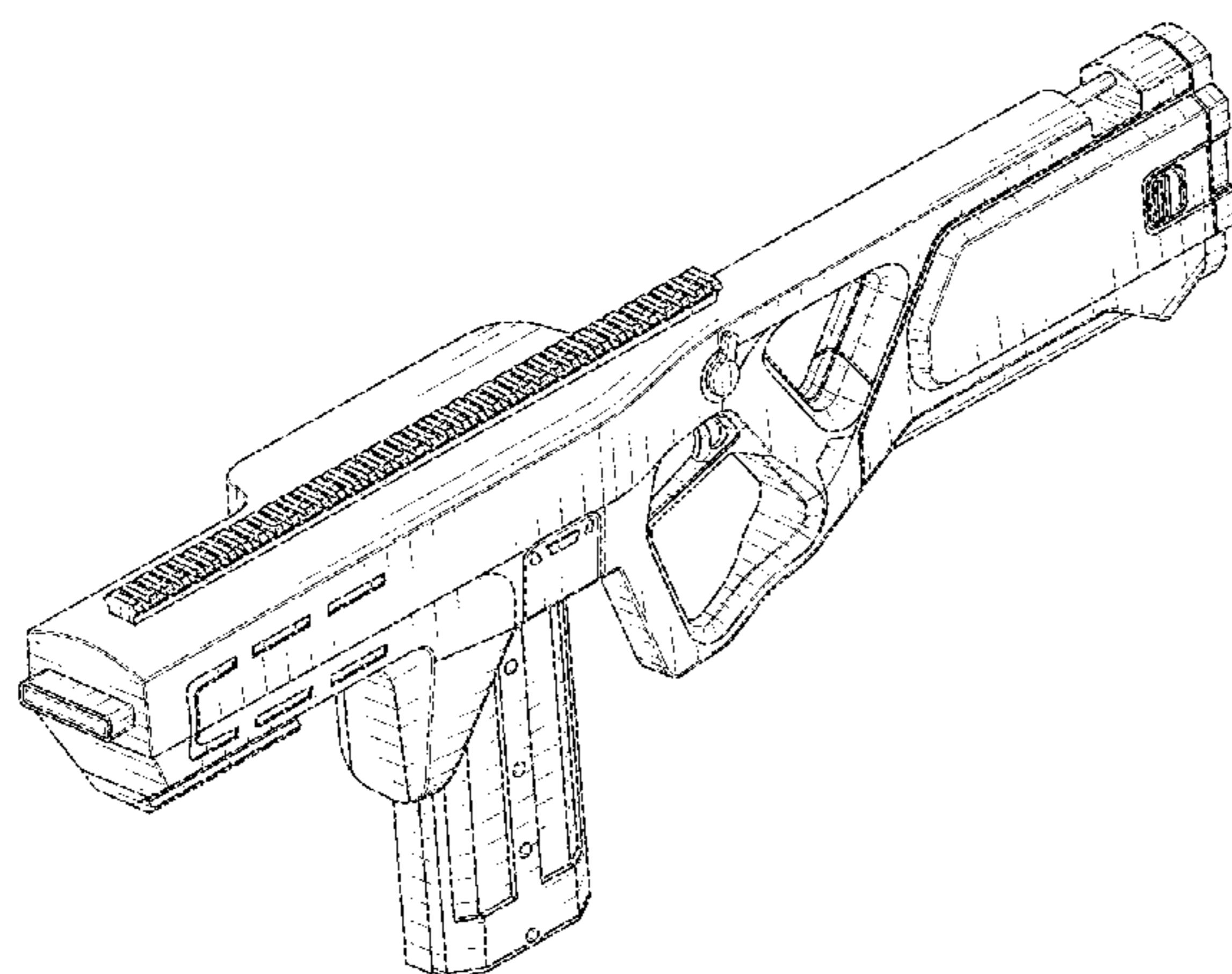


FIG. 24 is a top plan view of the battery component of FIG. 8;
 FIG. 25 is a front perspective view of the magazine component of FIG. 8 in a first configuration;
 FIG. 26 is a left side view of the magazine component of FIG. 8 in a first configuration;
 FIG. 27 is a right side view of the magazine component of FIG. 8 in a first configuration;
 FIG. 28 is a front elevational view of the magazine component of FIG. 8 in a first configuration;
 FIG. 29 is a rear elevational view of the magazine component of FIG. 8 in a first configuration;
 FIG. 30 is a top plan view of the magazine component of FIG. 8 in a first configuration;
 FIG. 31 is a bottom plan view of the magazine component of FIG. 8 in a first configuration;
 FIG. 32 is a front perspective view of the magazine component of FIG. 8 in a second configuration;
 FIG. 33 is a left side view of the magazine component of FIG. 8 in a second configuration;
 FIG. 34 is a right side view of the magazine component of FIG. 8 in a second configuration;
 FIG. 35 is a front elevational view of the magazine component of FIG. 8 in a second configuration;
 FIG. 36 is a rear elevational view of the magazine component of FIG. 8 in a second configuration;
 FIG. 37 is a top plan view of the magazine component of FIG. 8 in a second configuration;
 FIG. 38 is a bottom plan view of the magazine component of FIG. 8 in a second configuration;
 FIG. 39 is a top perspective view showing a second embodiment of our new design for a projectile launcher;
 FIG. 40 is a left side view of the design of FIG. 39;
 FIG. 41 is a right side view of the design of FIG. 39;
 FIG. 42 is a top plan view of the design of FIG. 39;
 FIG. 43 is a bottom plan view of the design of FIG. 39;
 FIG. 44 is a rear elevational view of the design of FIG. 39;
 FIG. 45 is a front elevational view of the design of FIG. 39;
 FIG. 46 is an exploded perspective view of the design of FIG. 39 showing the battery component, the launcher component, and the magazine component;
 FIG. 47 is a top perspective view of the launcher component of FIG. 46;
 FIG. 48 is a left side view of the launcher component of FIG. 46;
 FIG. 49 is a right side view of the launcher component of FIG. 46;
 FIG. 50 is a top plan view of the launcher component of FIG. 46;
 FIG. 51 is a bottom plan view of the launcher component of FIG. 46;
 FIG. 52 is a front elevational view of the launcher component of FIG. 46;
 FIG. 53 is a rear elevational view of the launcher component of FIG. 46;
 FIG. 54 is a left side view of the design of FIG. 39 in a second configuration;
 FIG. 55 is a left side view of the design of FIG. 39 in a third configuration;
 FIG. 56 is a top perspective view of the battery component of FIG. 46;
 FIG. 57 is a front elevational view of the battery component of FIG. 46;

FIG. 58 is a rear elevational view of the battery component of FIG. 46;
 FIG. 59 is a right side view of the battery component of FIG. 46;
 FIG. 60 is a left side view of the battery component of FIG. 46;
 FIG. 61 is a bottom plan view of the battery component of FIG. 46;
 FIG. 62 is a top plan view of the battery component of FIG. 46;
 FIG. 63 is a front perspective view of the magazine component of FIG. 46 in a first configuration;
 FIG. 64 is a left side view of the magazine component of FIG. 46 in a first configuration;
 FIG. 65 is a right side view of the magazine component of FIG. 46 in a first configuration;
 FIG. 66 is a front elevational view of the magazine component of FIG. 46 in a first configuration;
 FIG. 67 is a rear elevational view of the magazine component of FIG. 46 in a first configuration;
 FIG. 68 is a top plan view of the magazine component of FIG. 46 in a first configuration;
 FIG. 69 is a bottom plan view of the magazine component of FIG. 46 in a first configuration;
 FIG. 70 is a front perspective view of the magazine component of FIG. 46 in a second configuration;
 FIG. 71 is a left side view of the magazine component of FIG. 46 in a second configuration;
 FIG. 72 is a right side view of the magazine component of FIG. 46 in a second configuration;
 FIG. 73 is a front elevational view of the magazine component of FIG. 46 in a second configuration;
 FIG. 74 is a rear elevational view of the magazine component of FIG. 46 in a second configuration;
 FIG. 75 is a top plan view of the magazine component of FIG. 46 in a second configuration; and,
 FIG. 76 is a bottom plan view of the magazine component of FIG. 46 in a second configuration.
 The evenly broken lines in the drawings depict unclaimed portions of the projectile launcher; the dash-dot broken lines illustrate unclaimed projection lines. Broken lines form no part of the claimed design.

1 Claim, 48 Drawing Sheets

(58) Field of Classification Search

CPC F41C 7/00; F41C 23/00; F16B 37/047;
 F16L 27/1274

See application file for complete search history.

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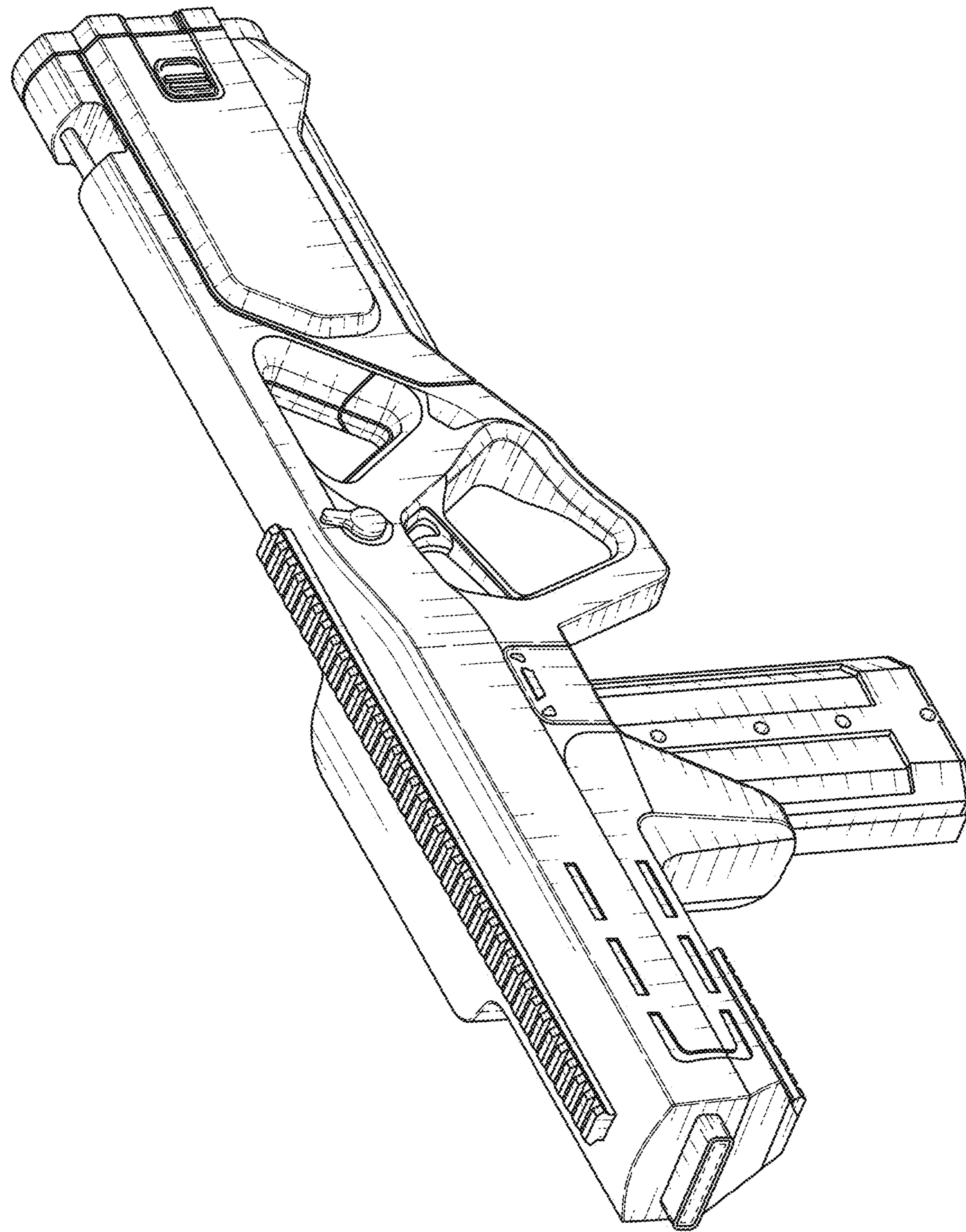


FIG. 1

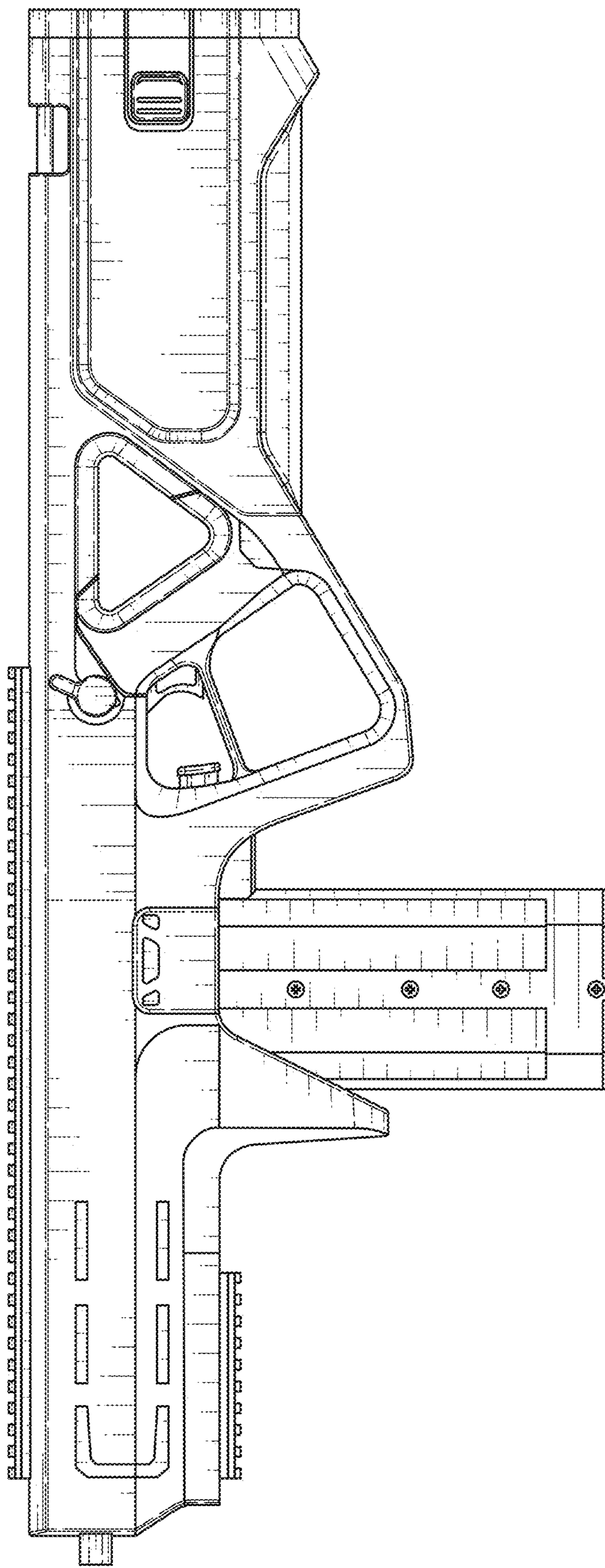


FIG. 2

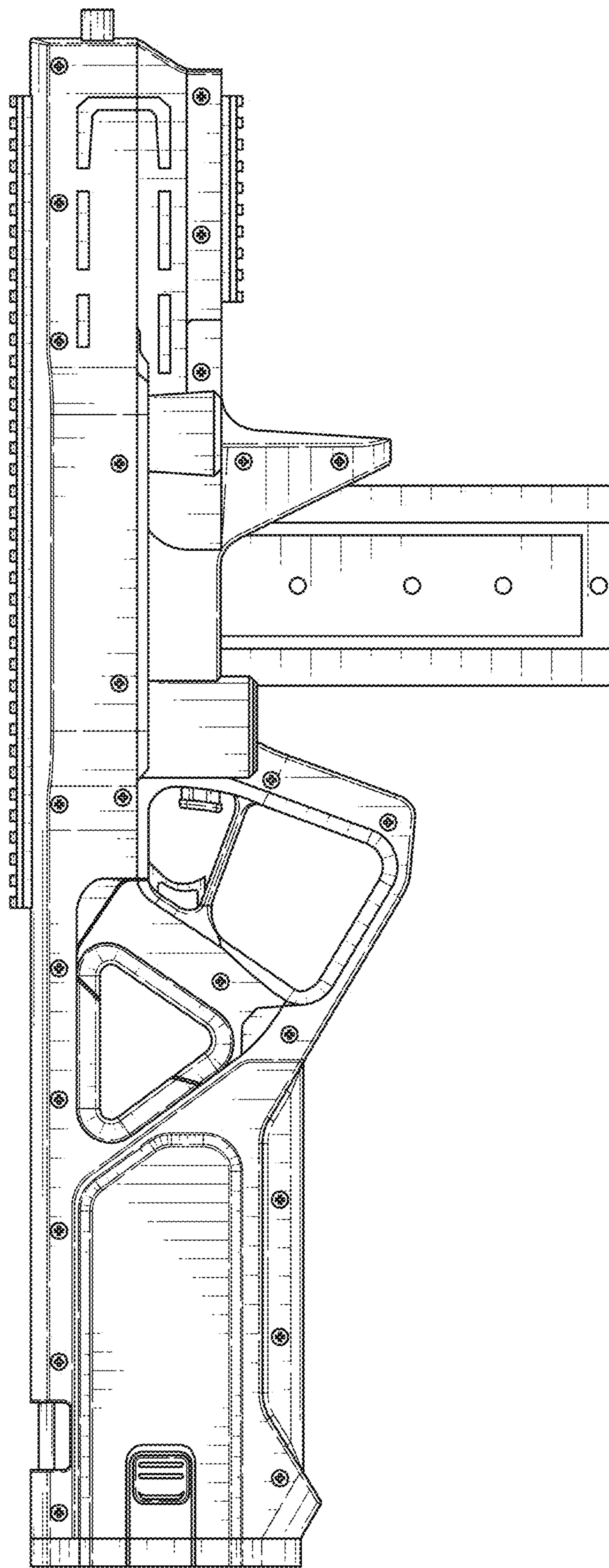


FIG. 3

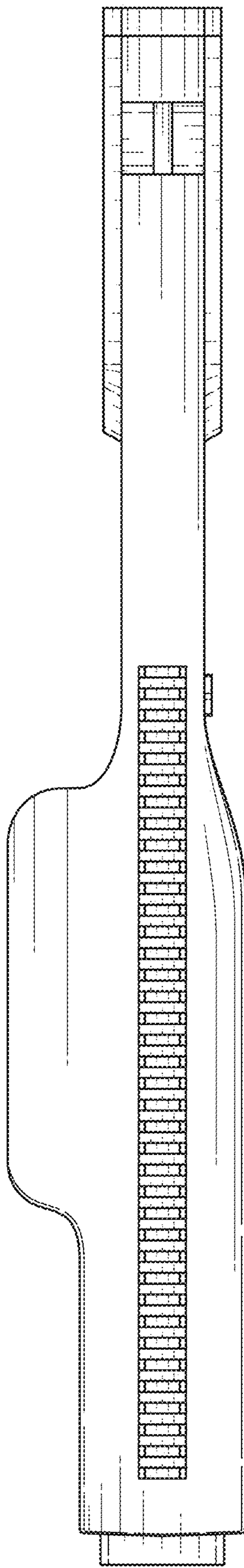


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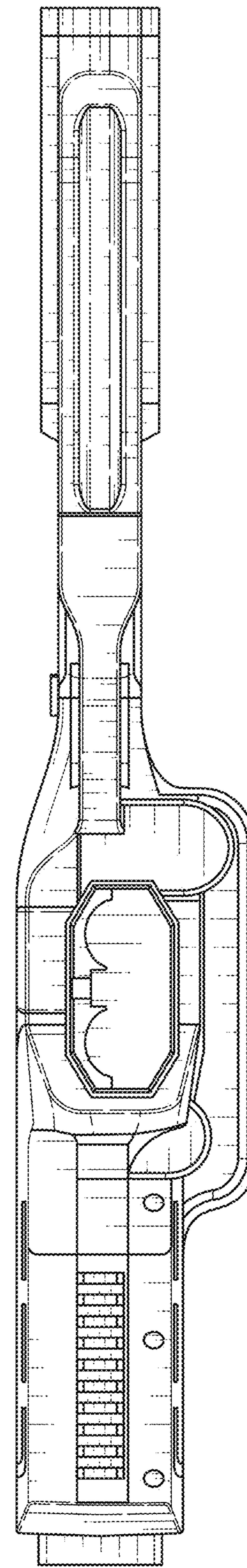


FIG. 5

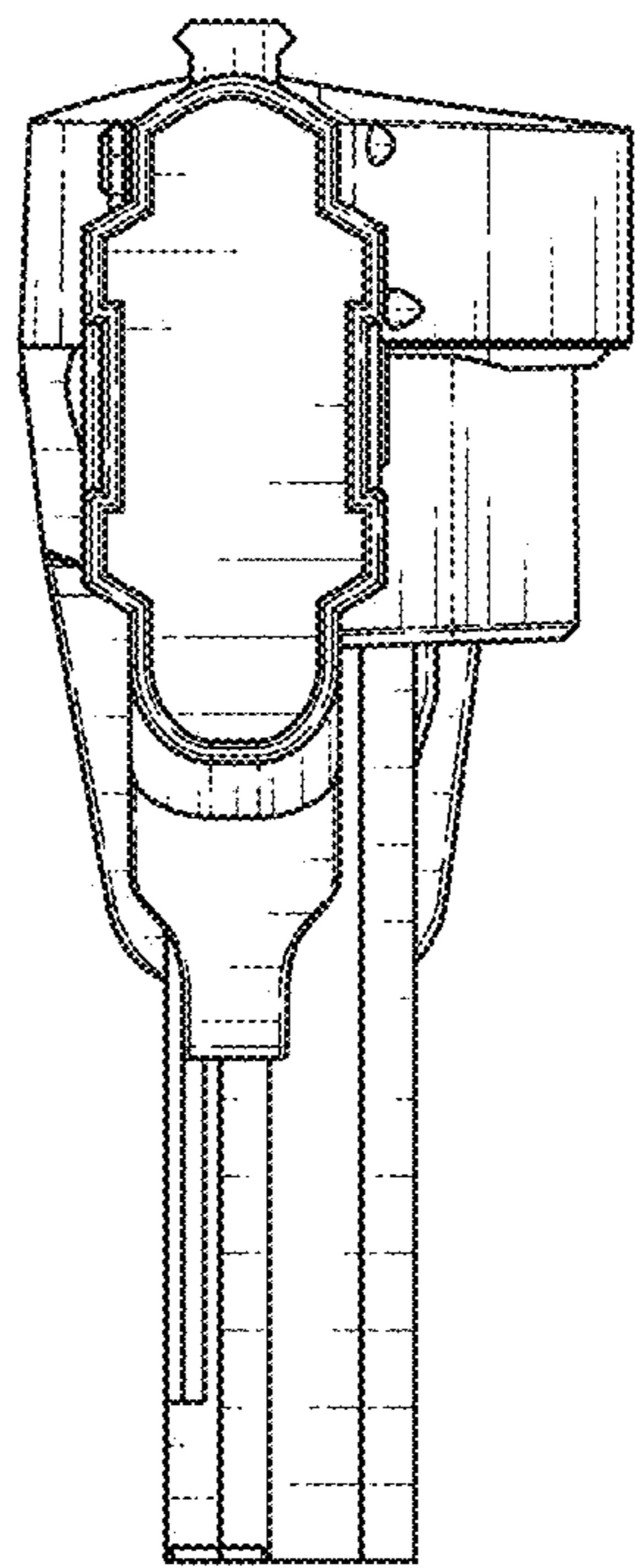


FIG. 6

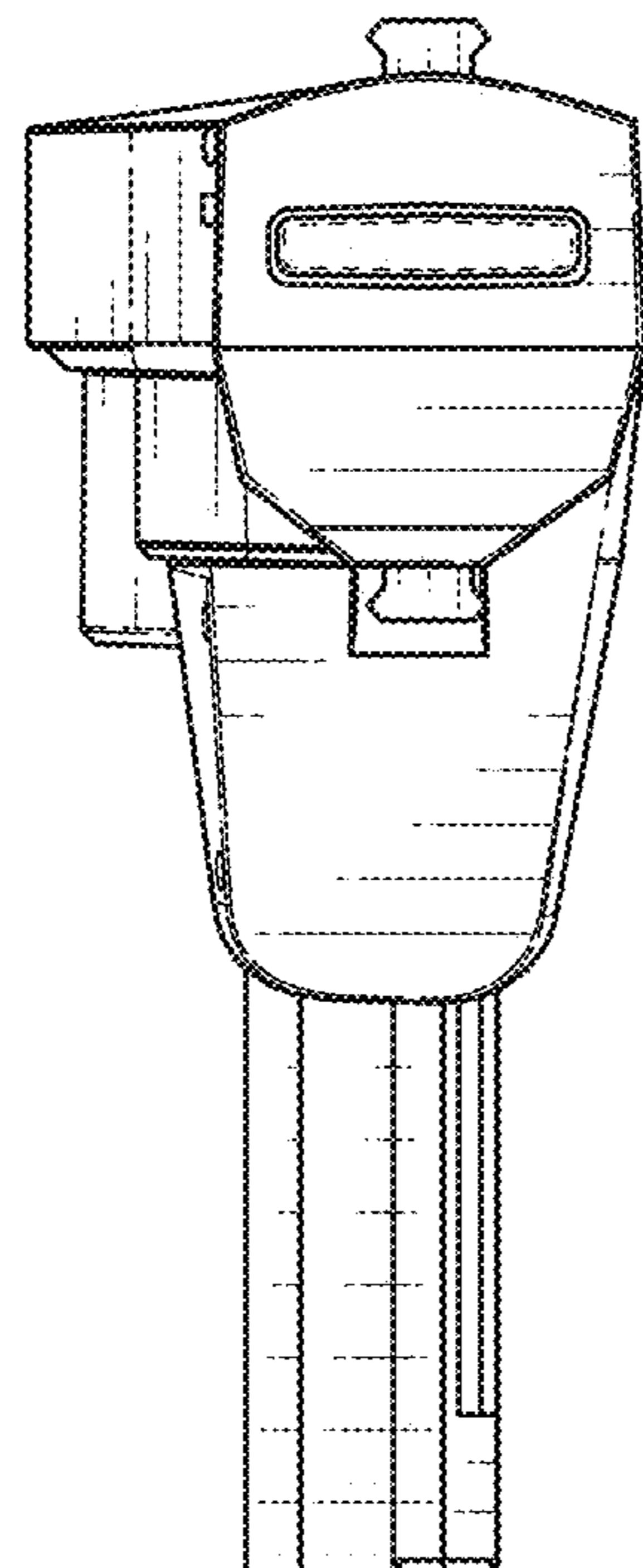


FIG. 7

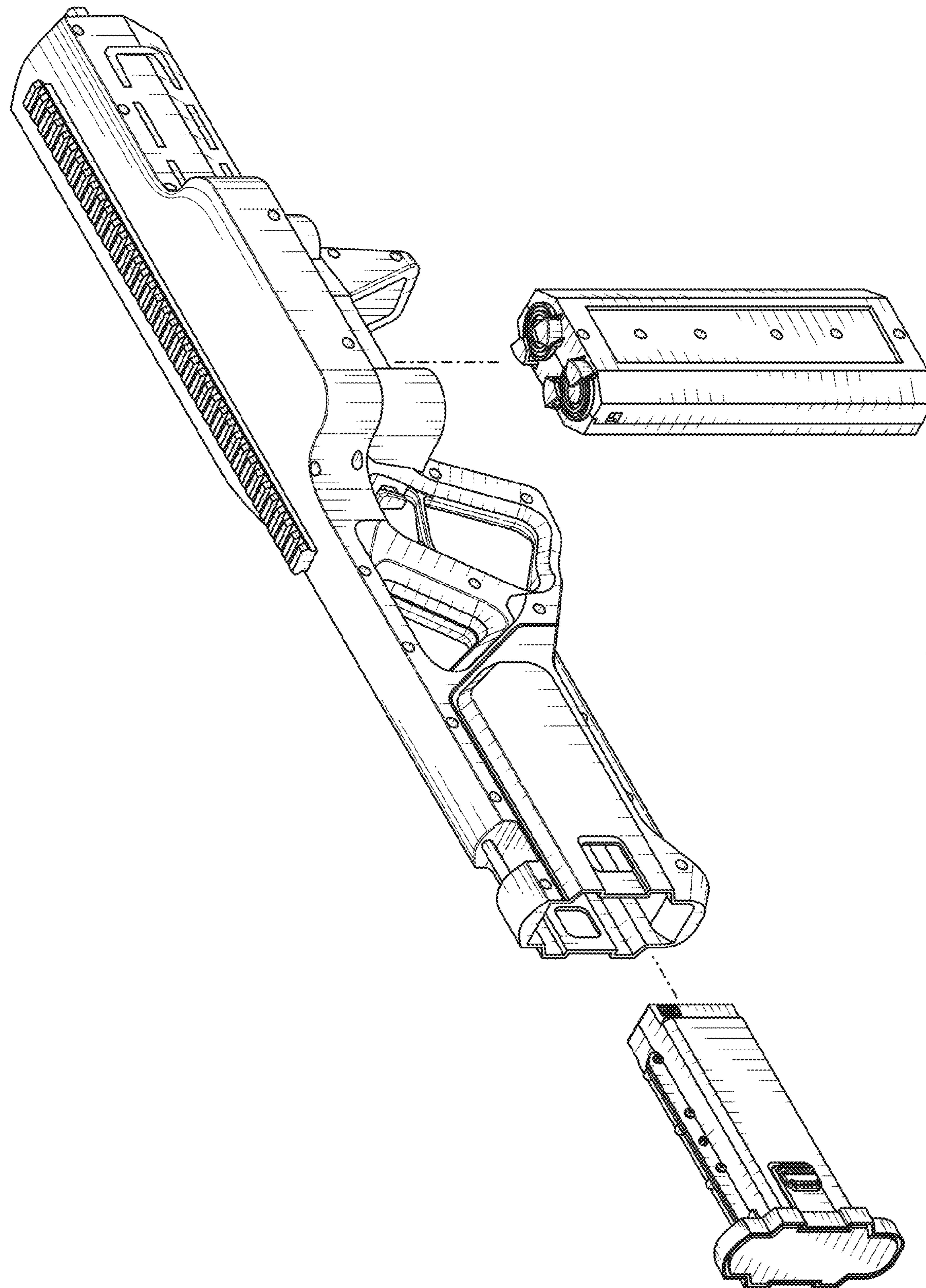


FIG. 8

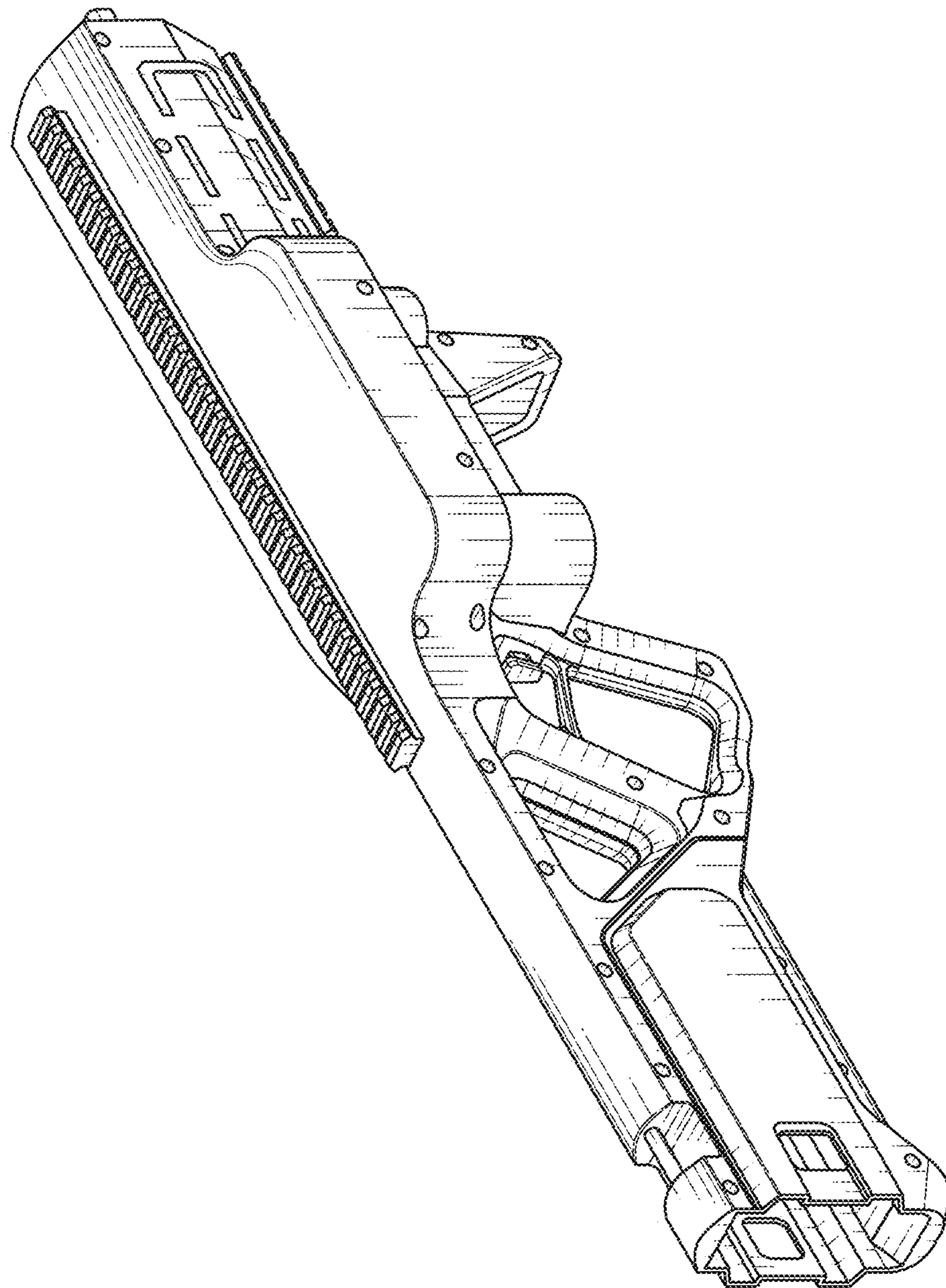


FIG. 9

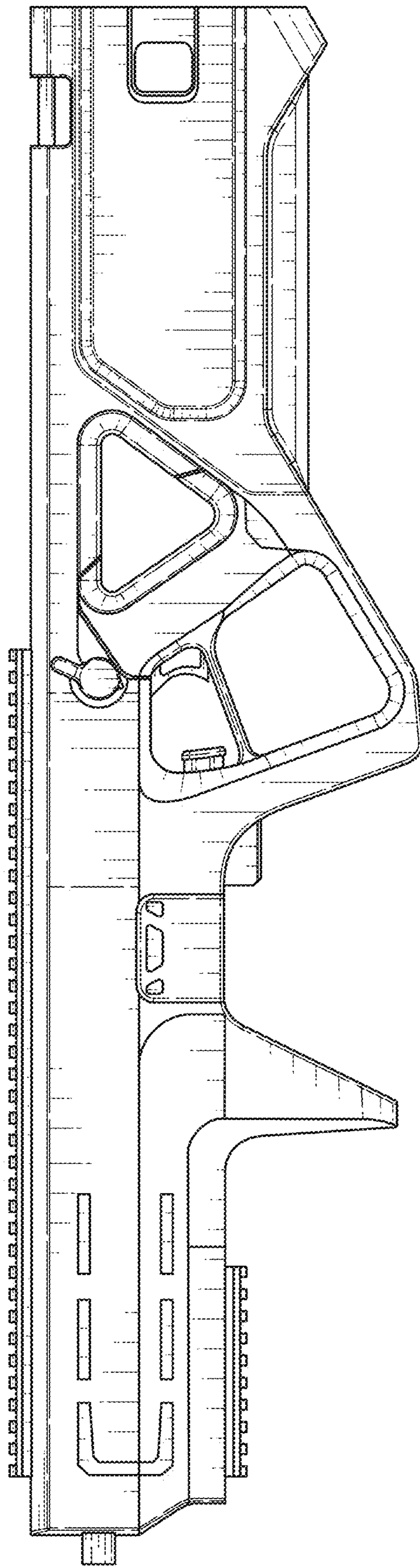


FIG. 10

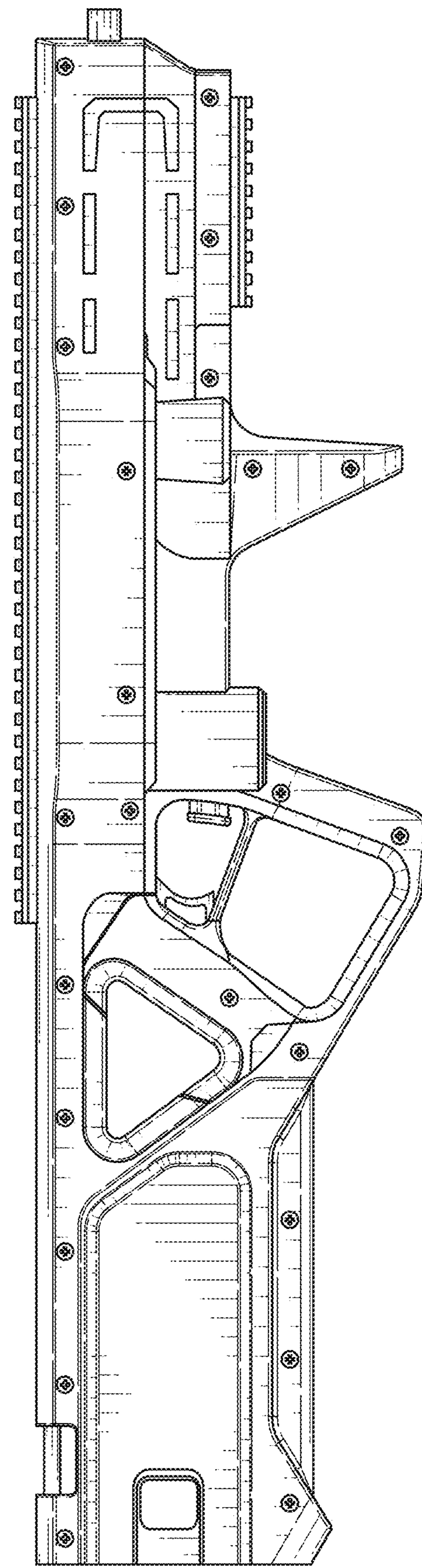


FIG. 11

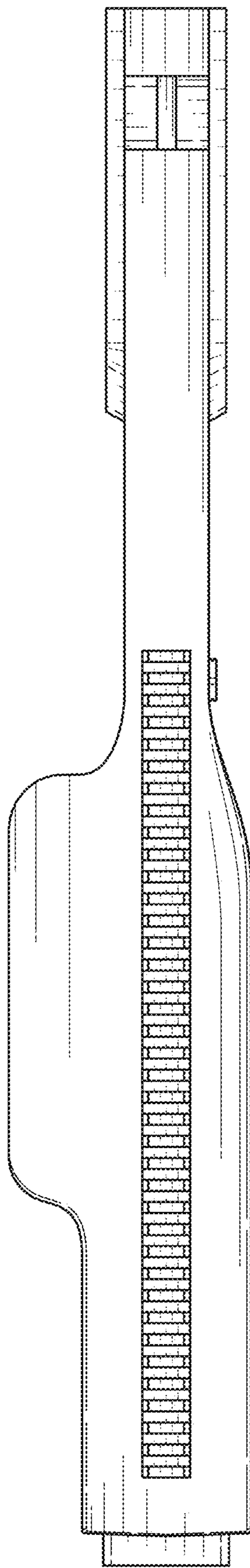


FIG. 12

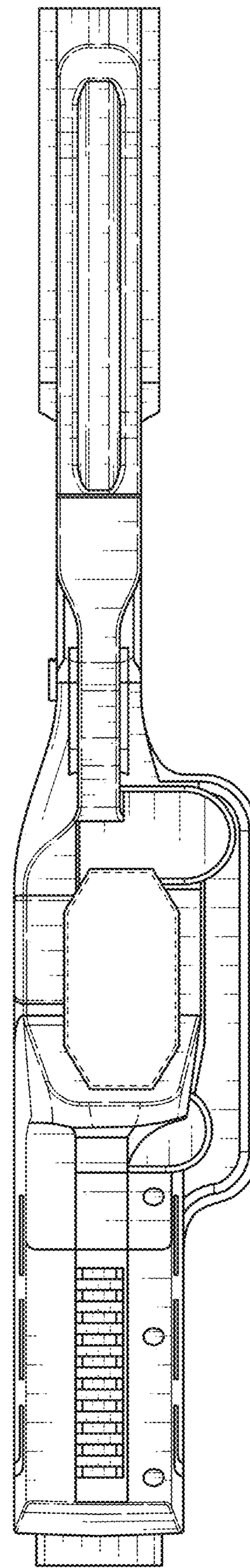


FIG. 13

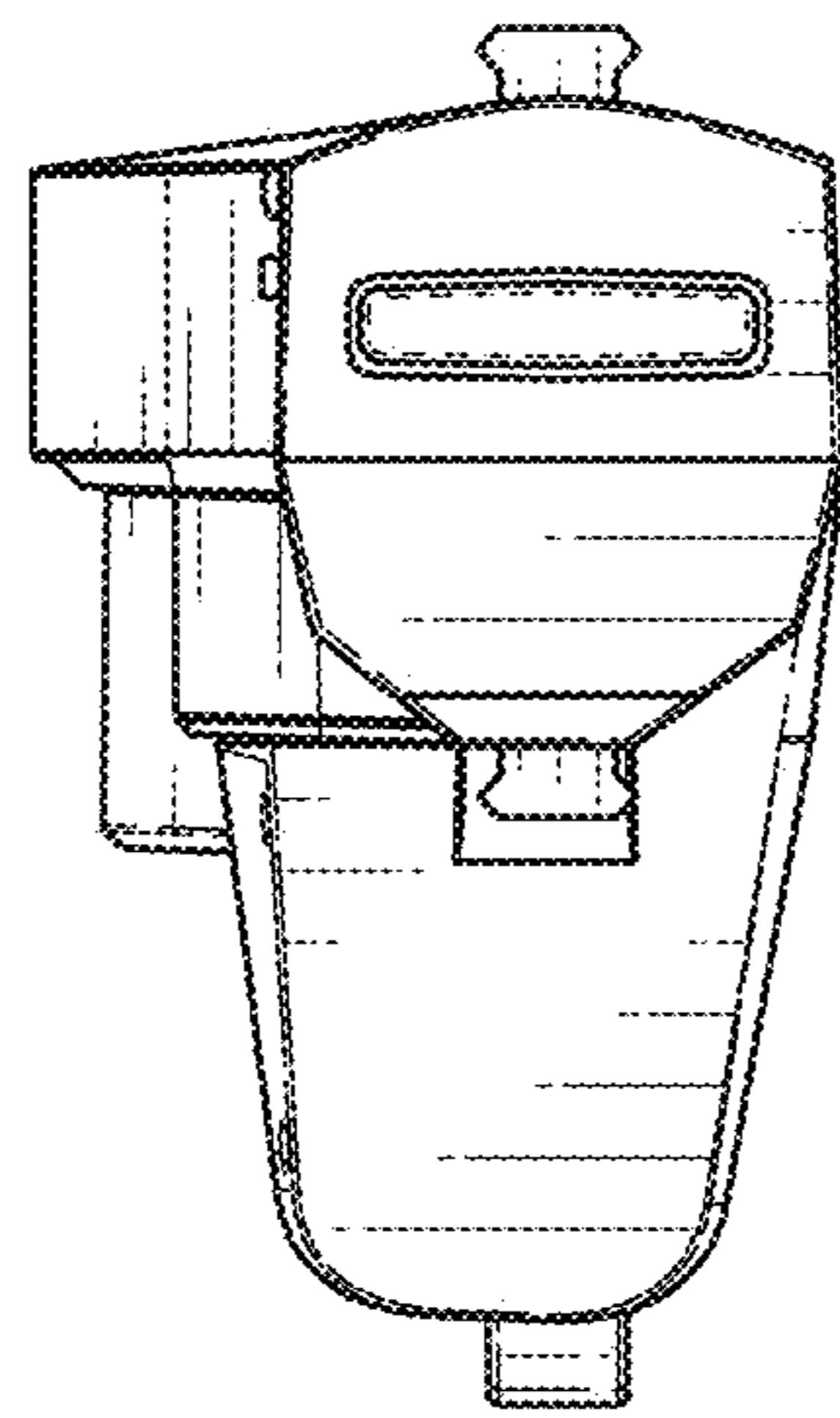


FIG. 14

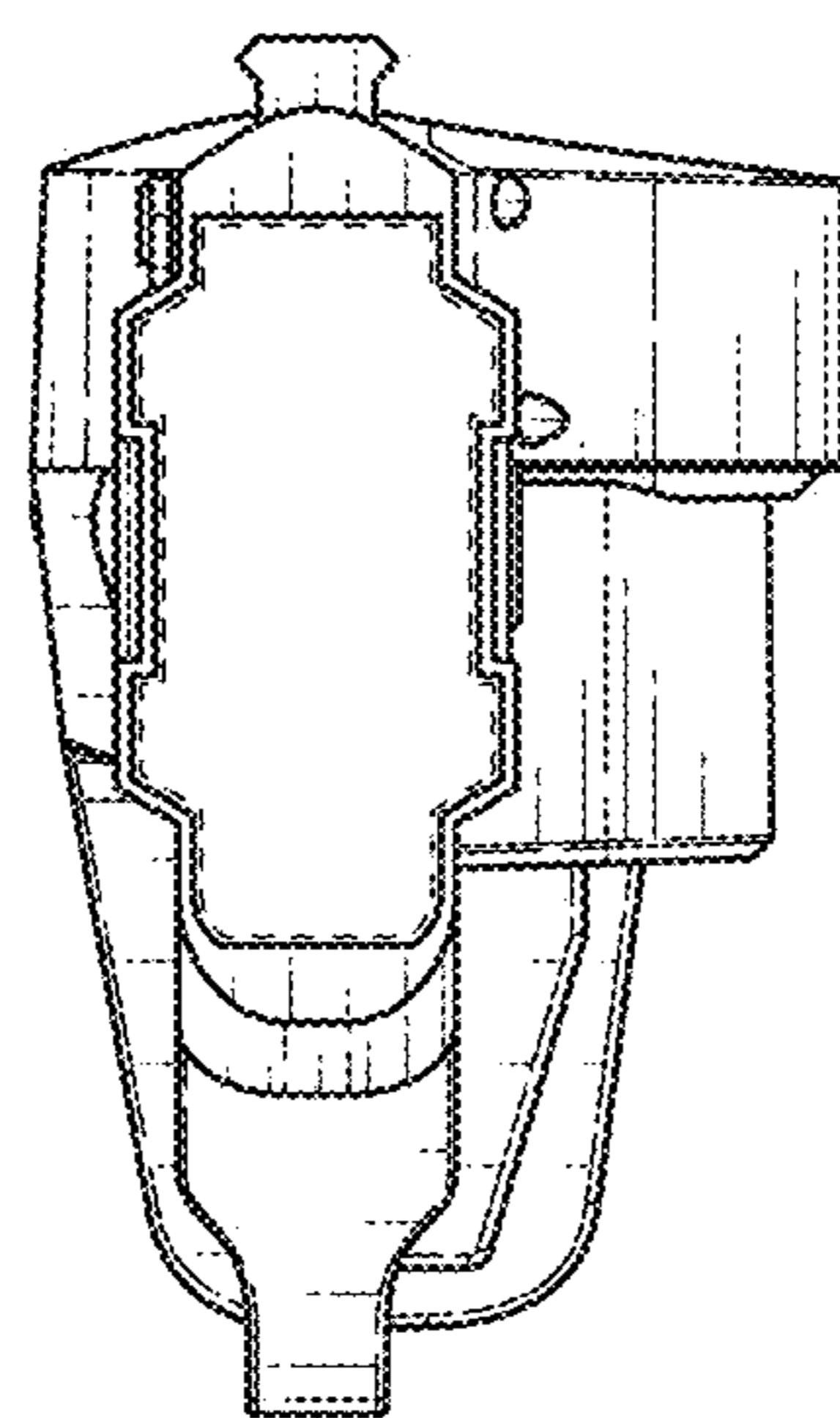


FIG. 15

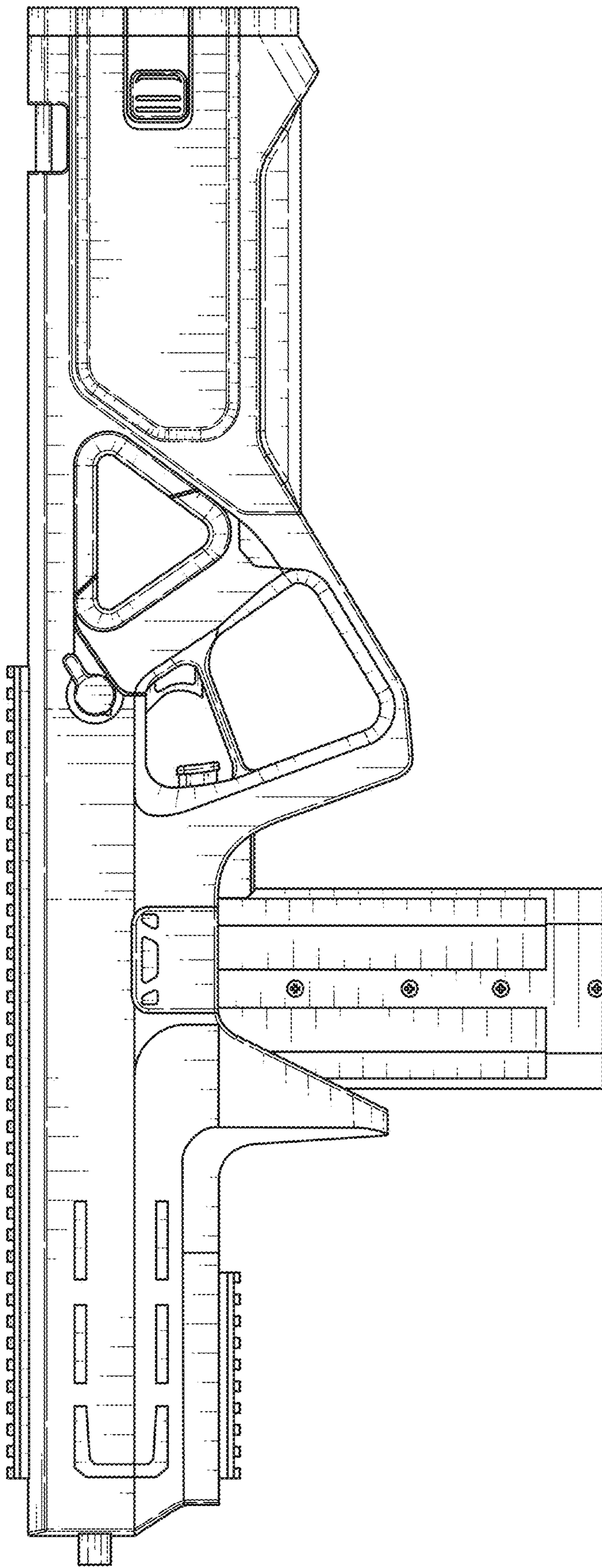


FIG. 16

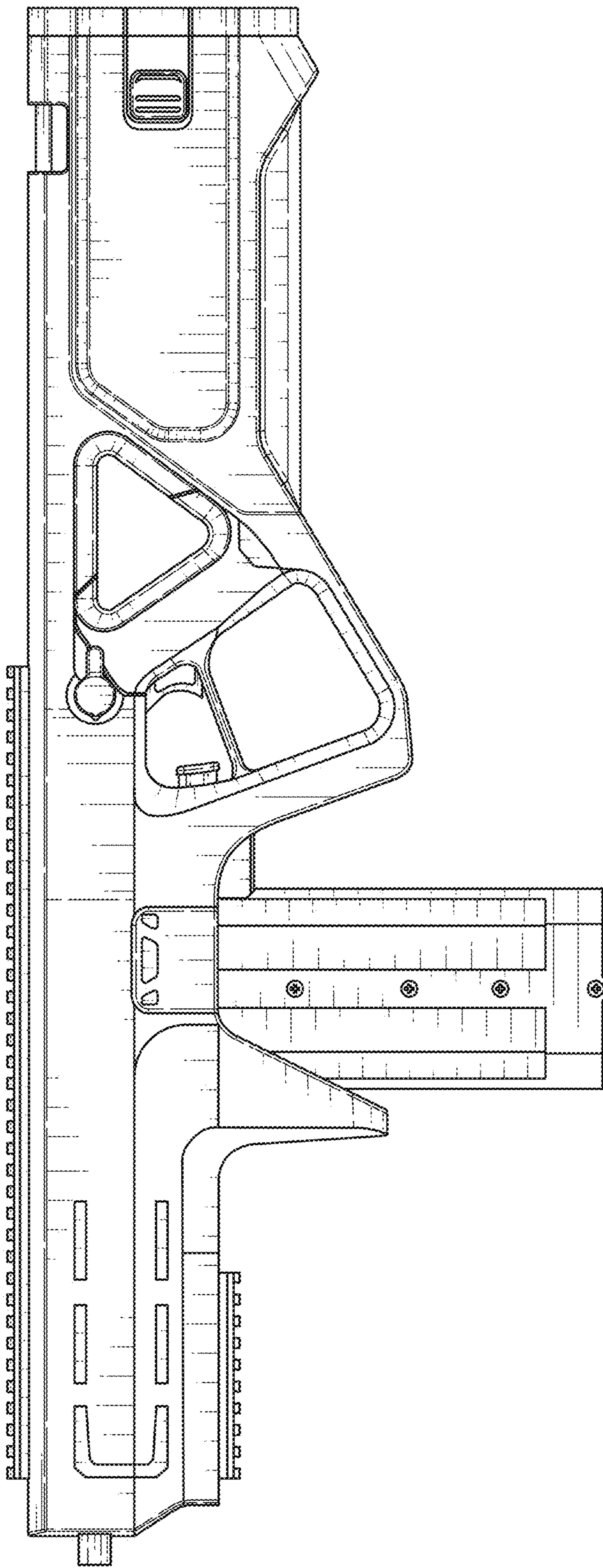
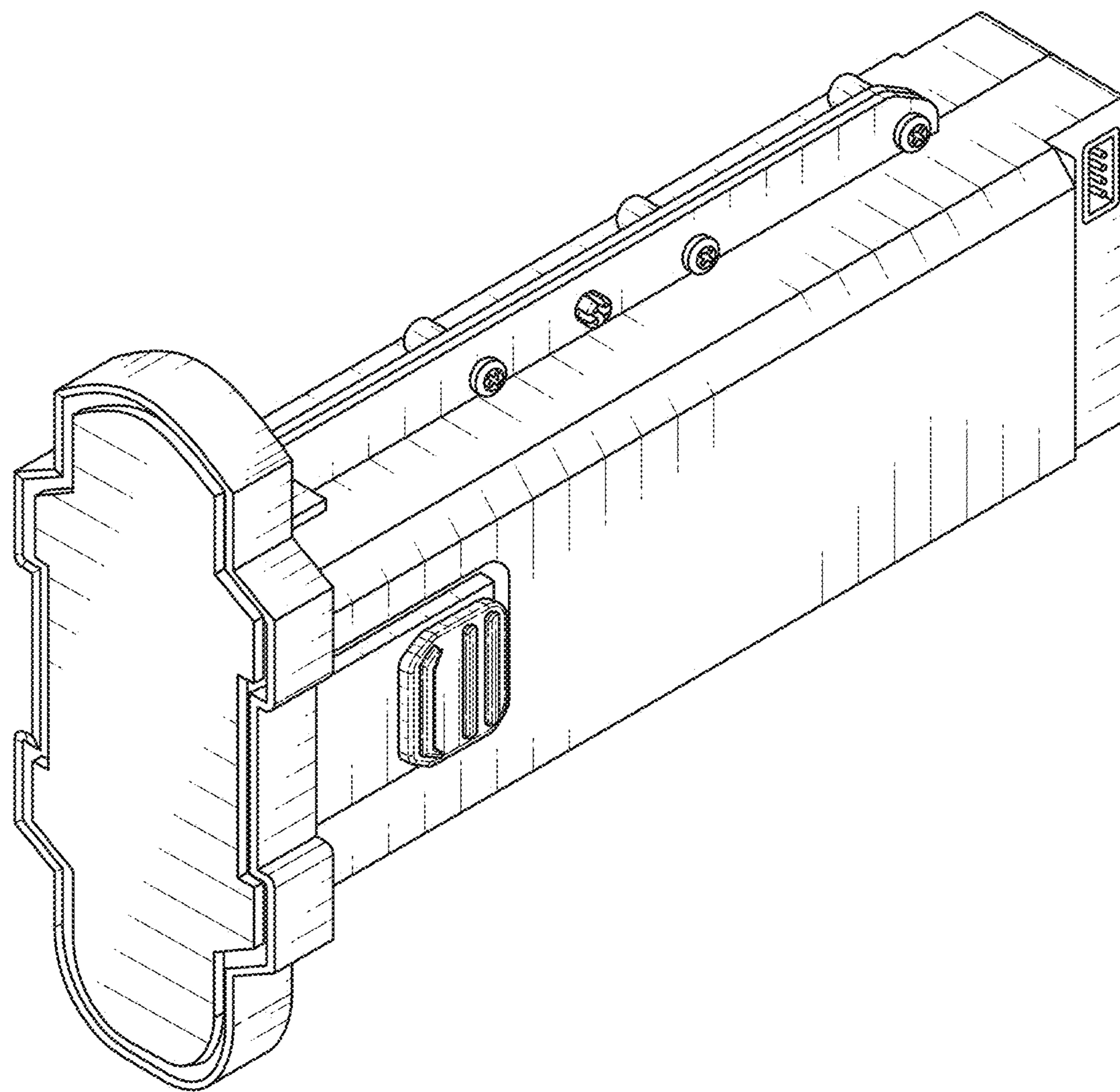


FIG. 17

**FIG. 18**

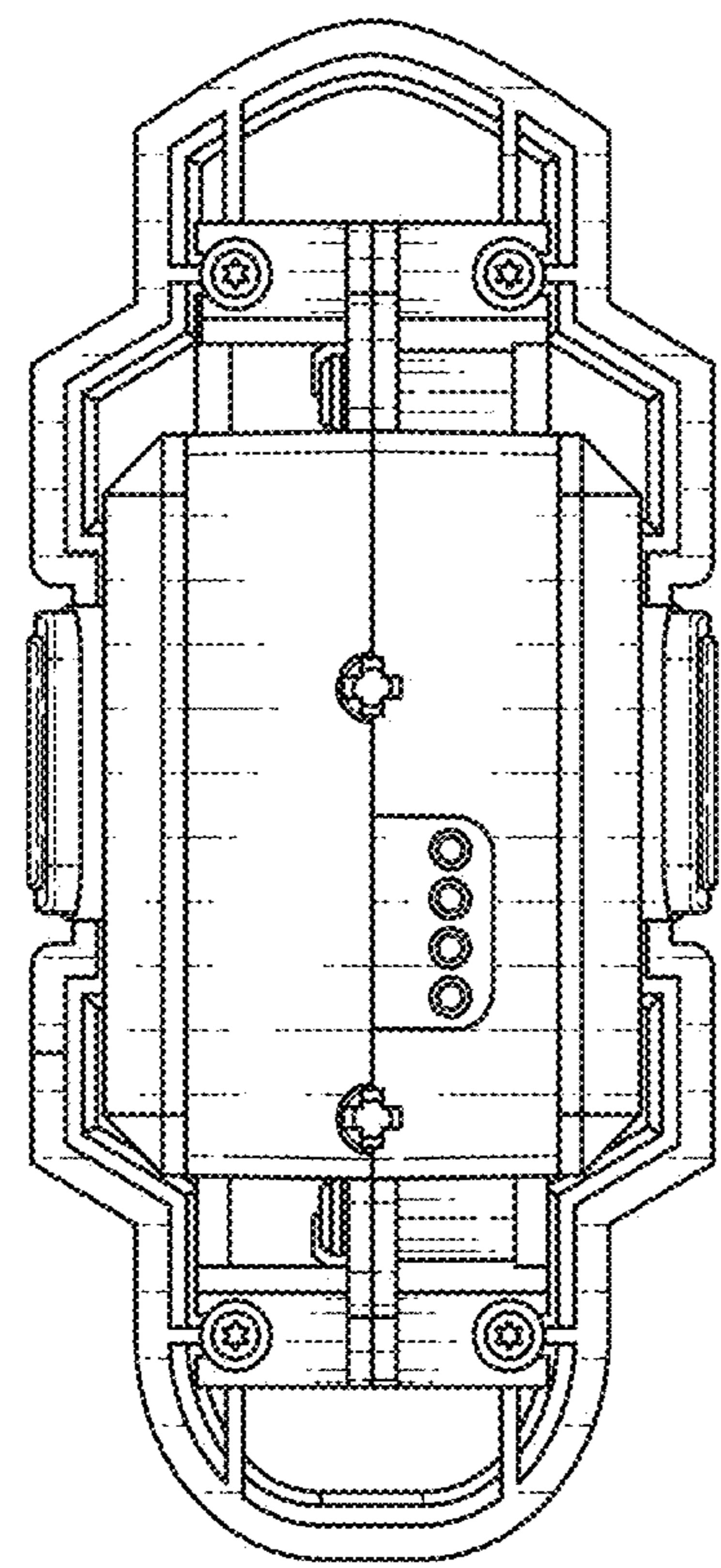


FIG. 19

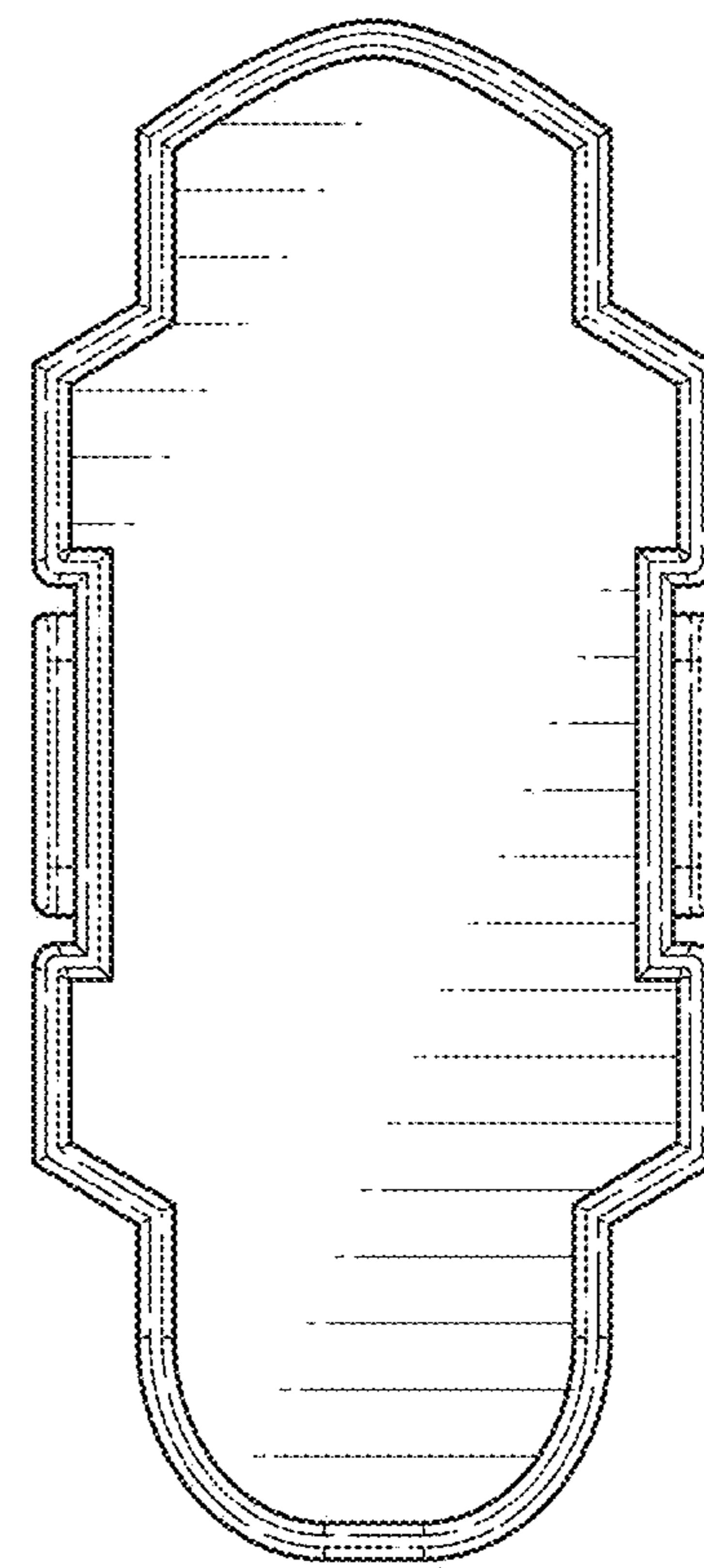


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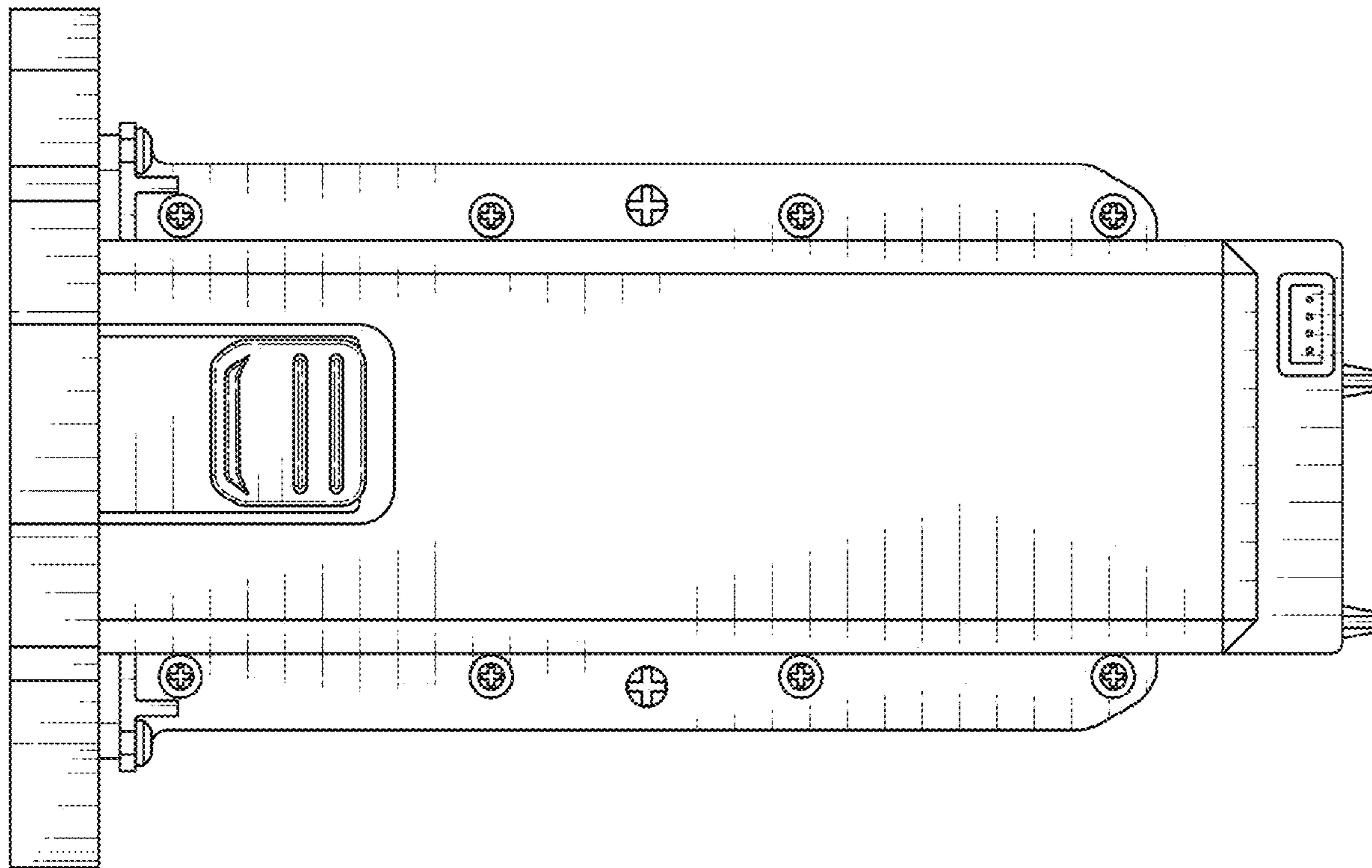


FIG. 21

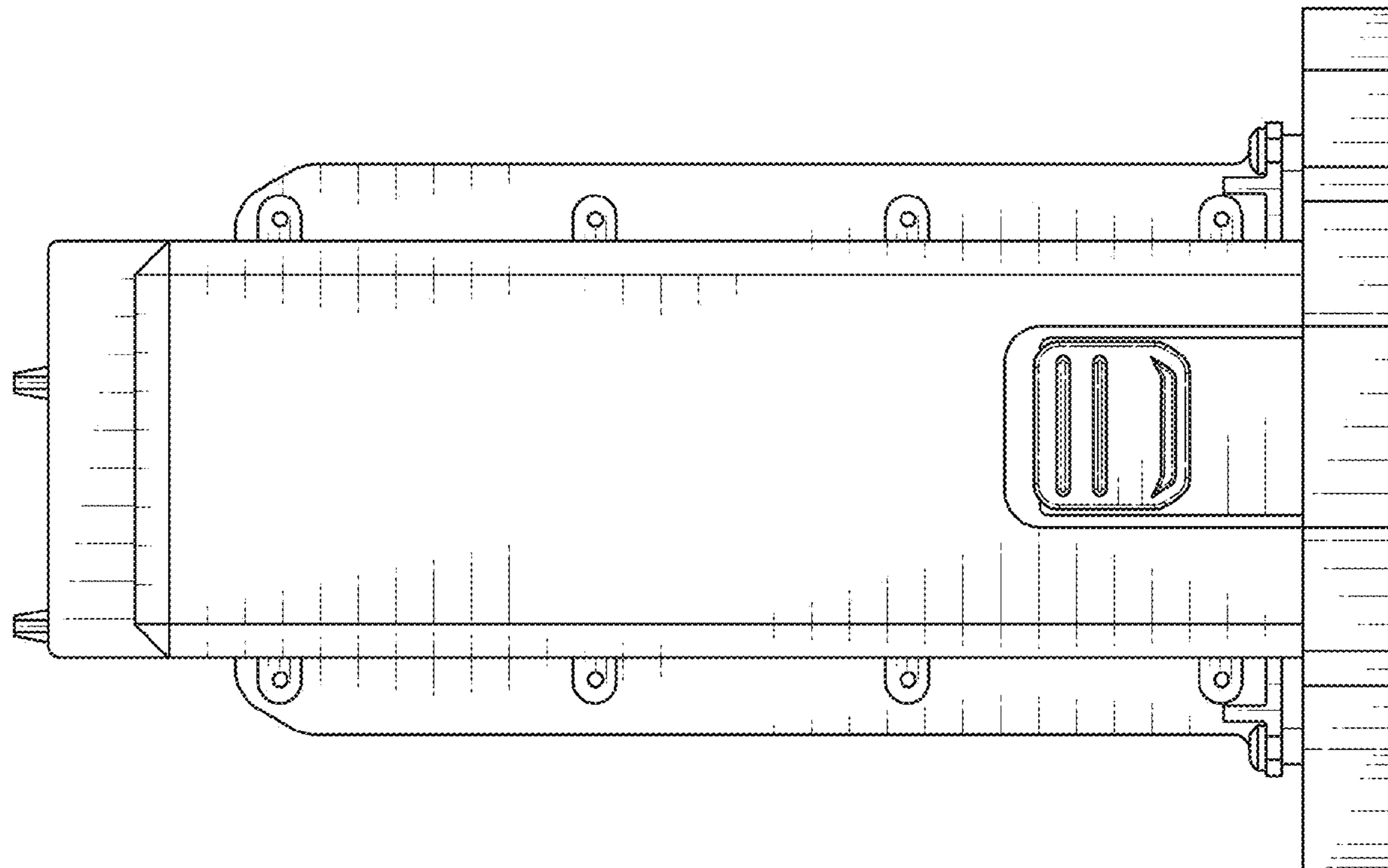


FIG. 22

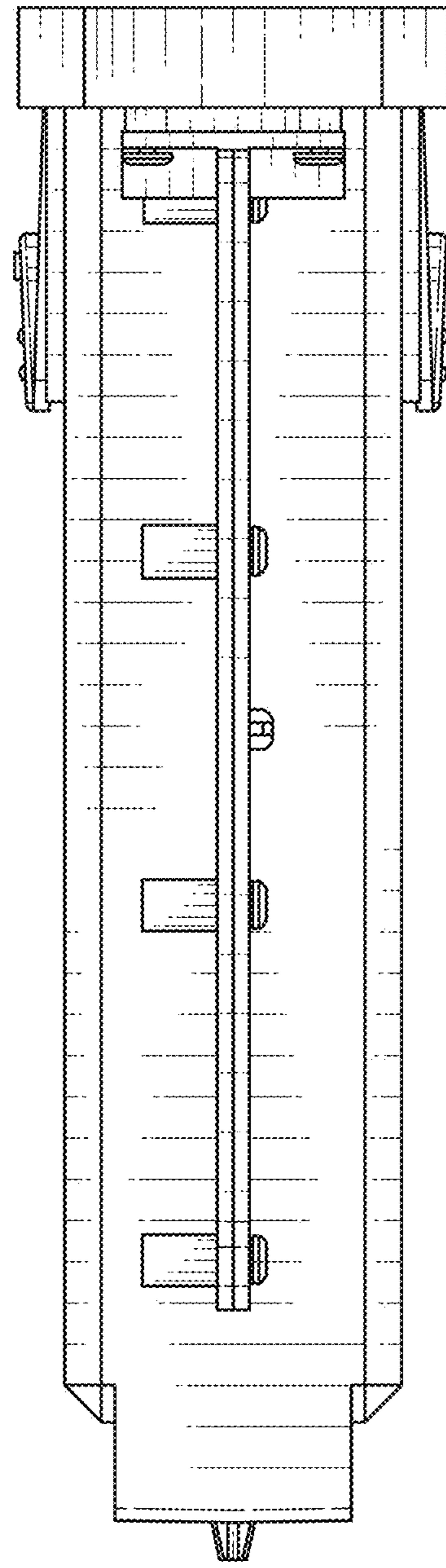


FIG. 23

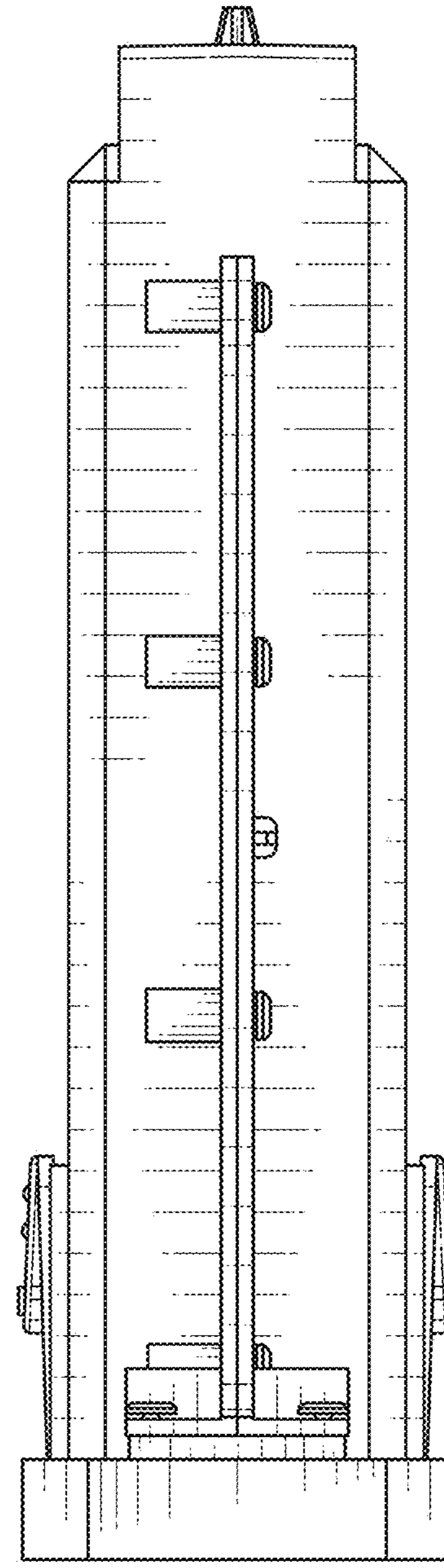


FIG. 24

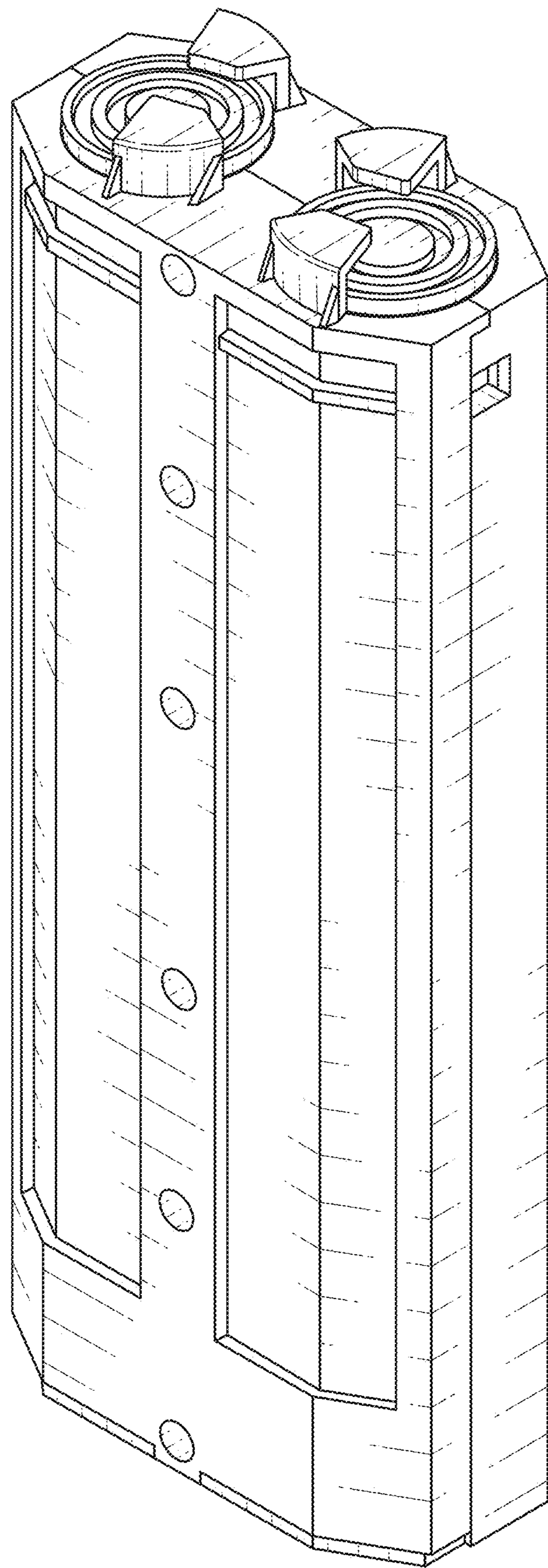
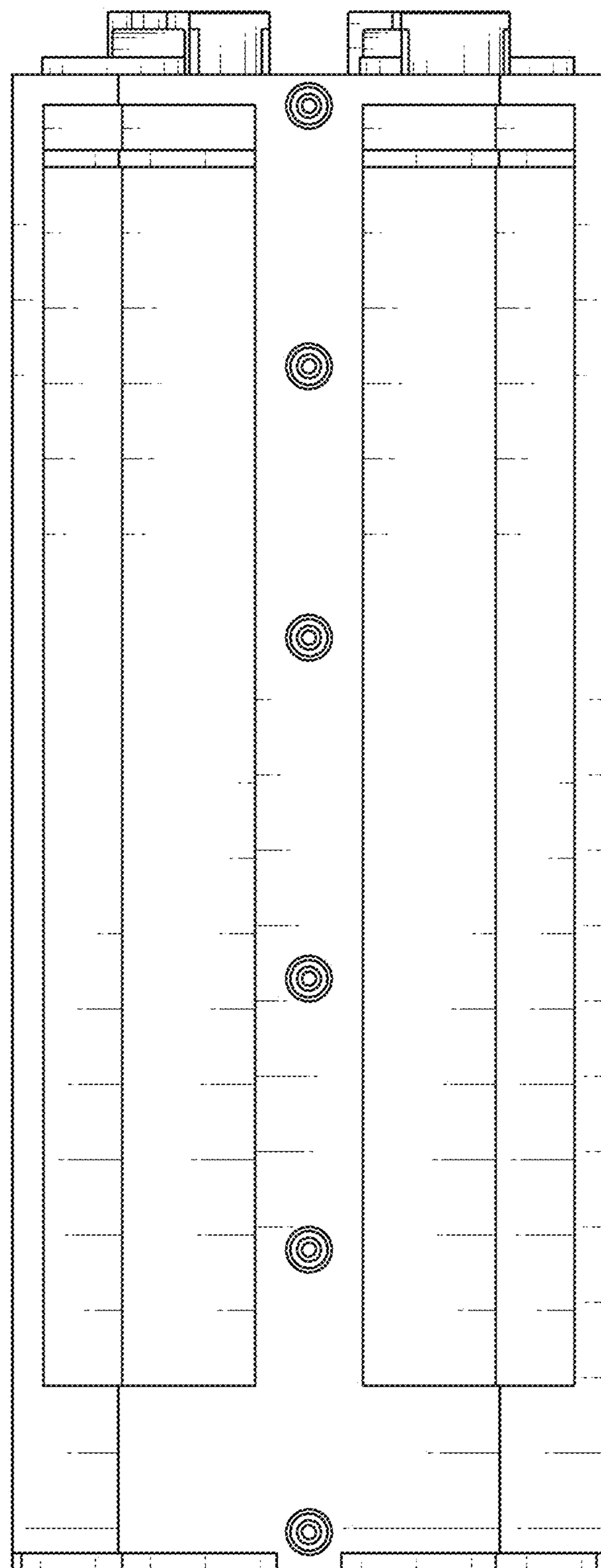
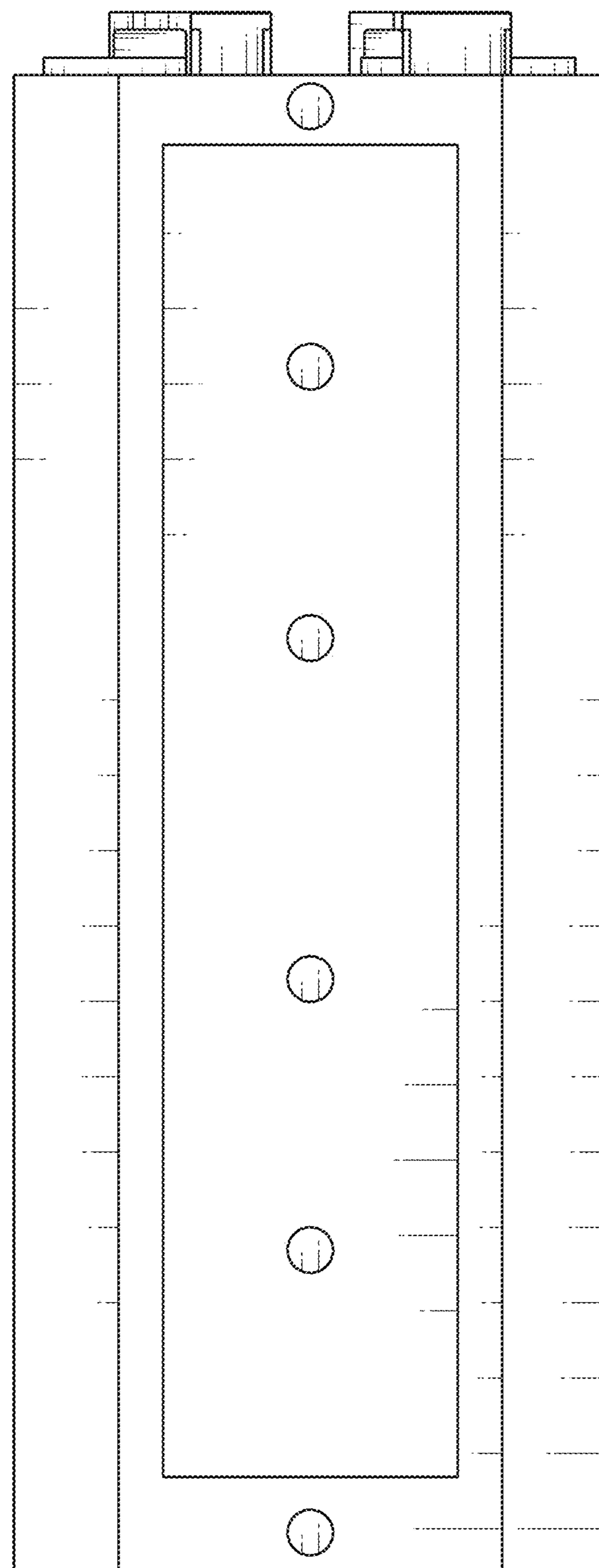
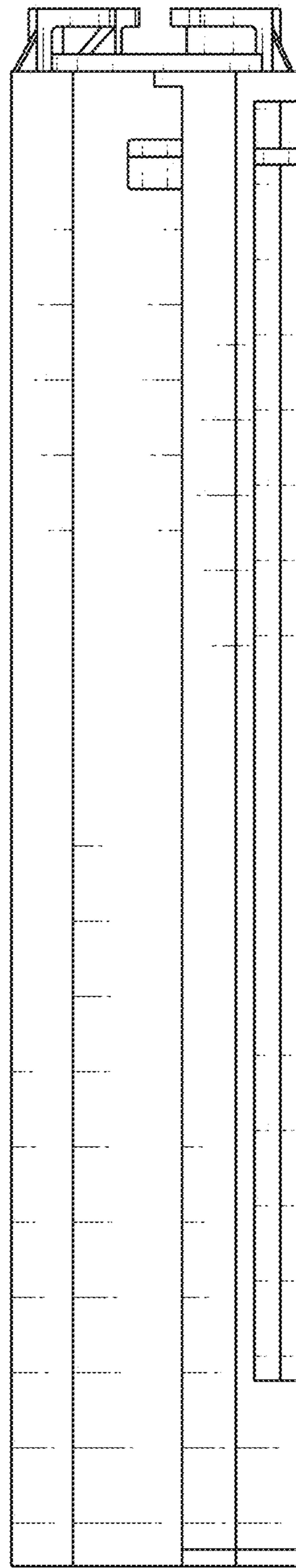
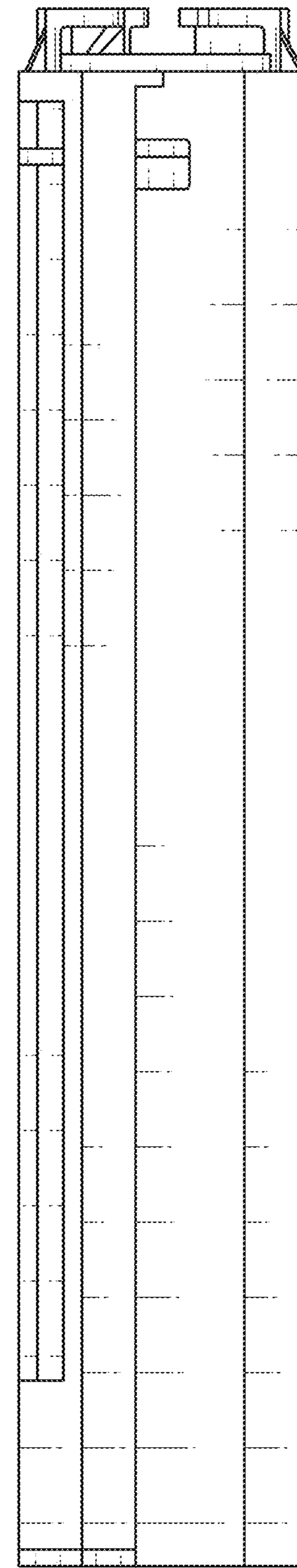


FIG. 25

**FIG. 26**

**FIG. 27**

**FIG. 28****FIG. 29**

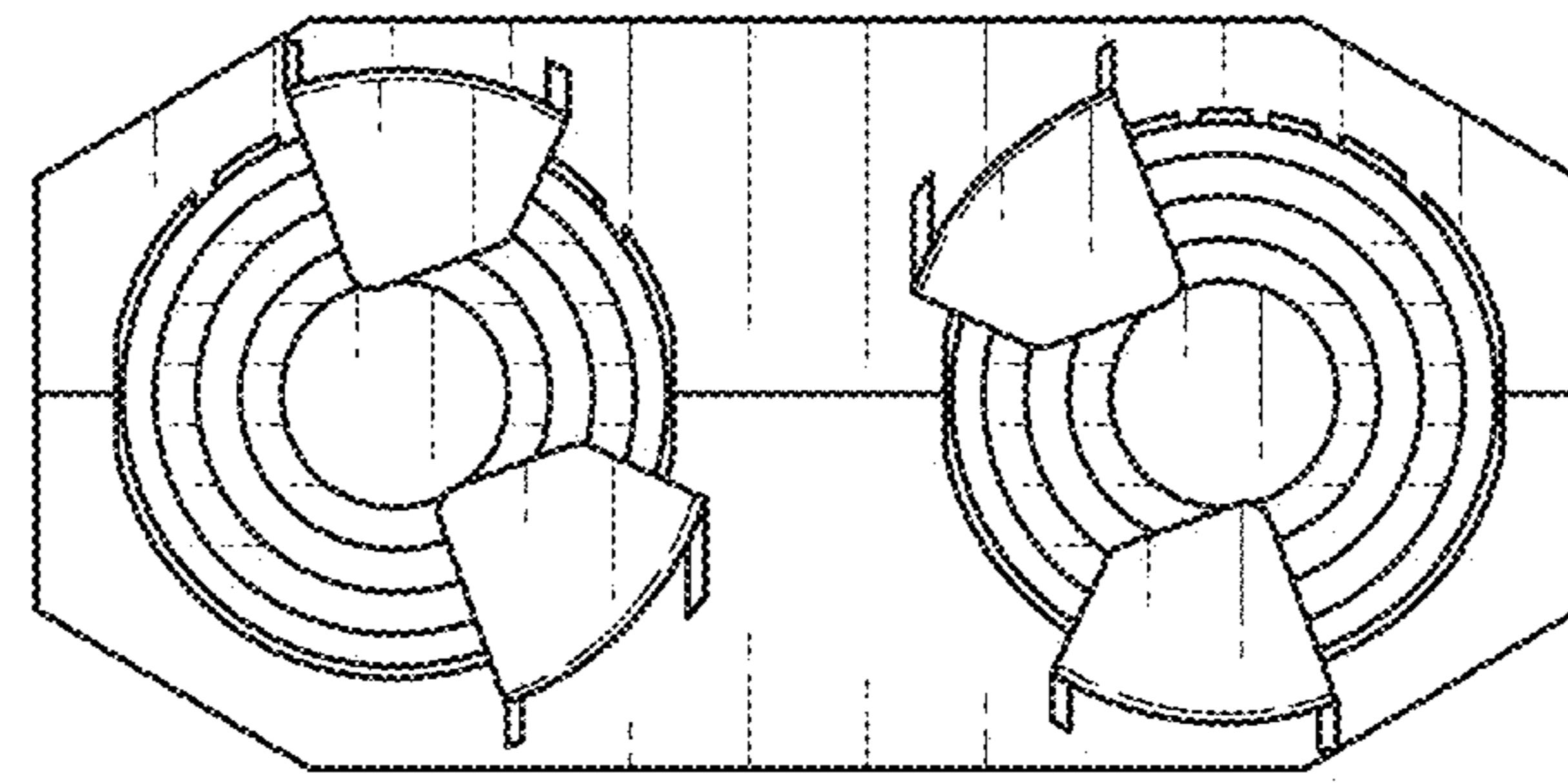


FIG. 30

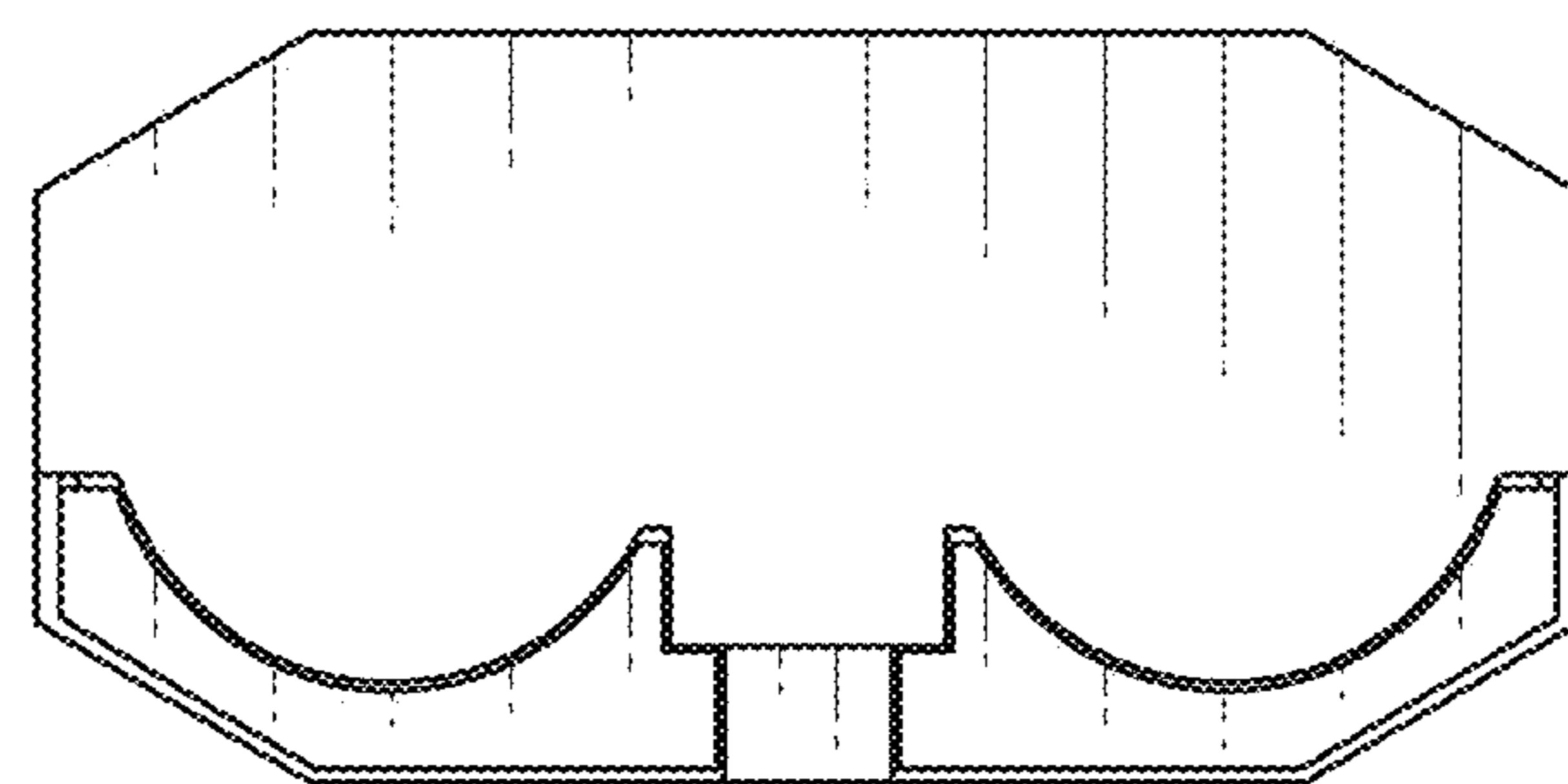


FIG. 31

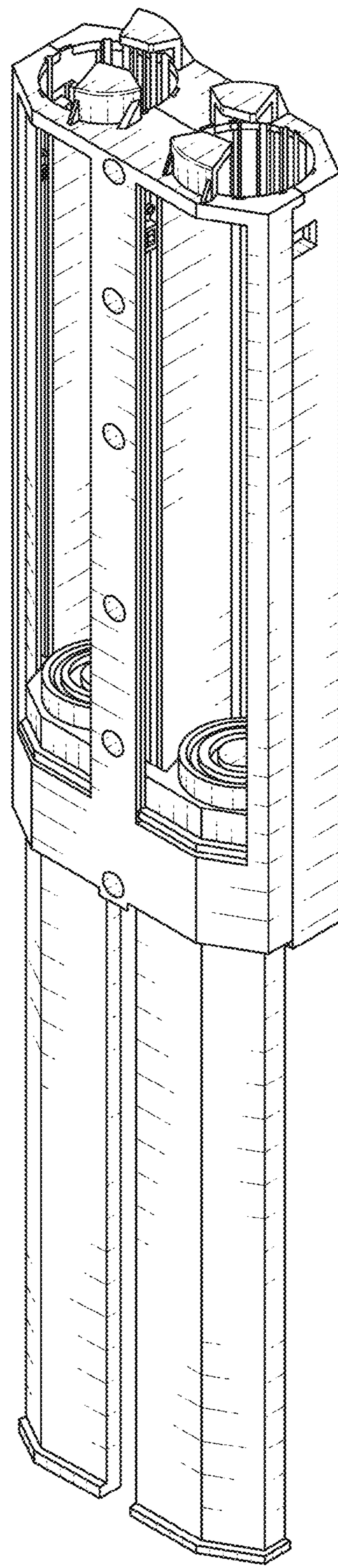


FIG. 32

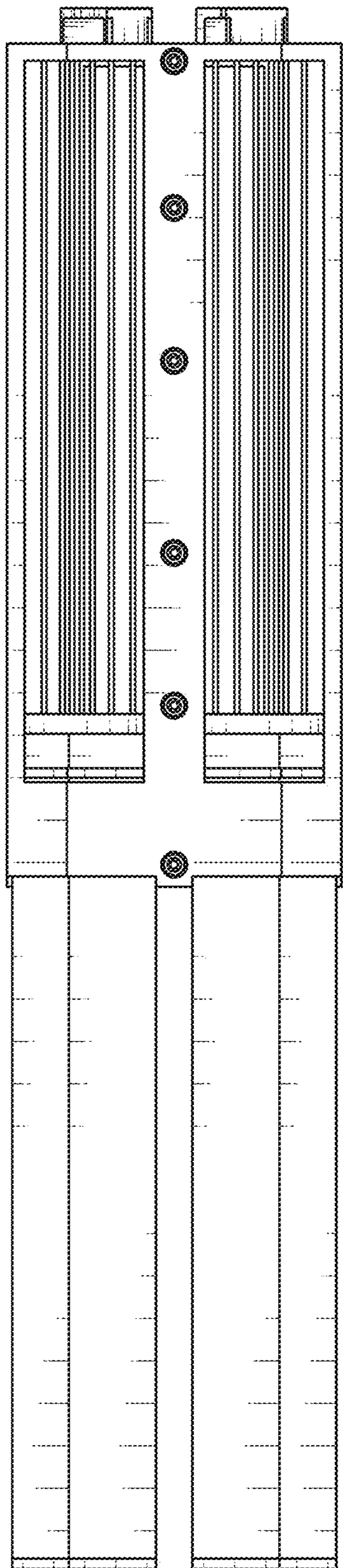


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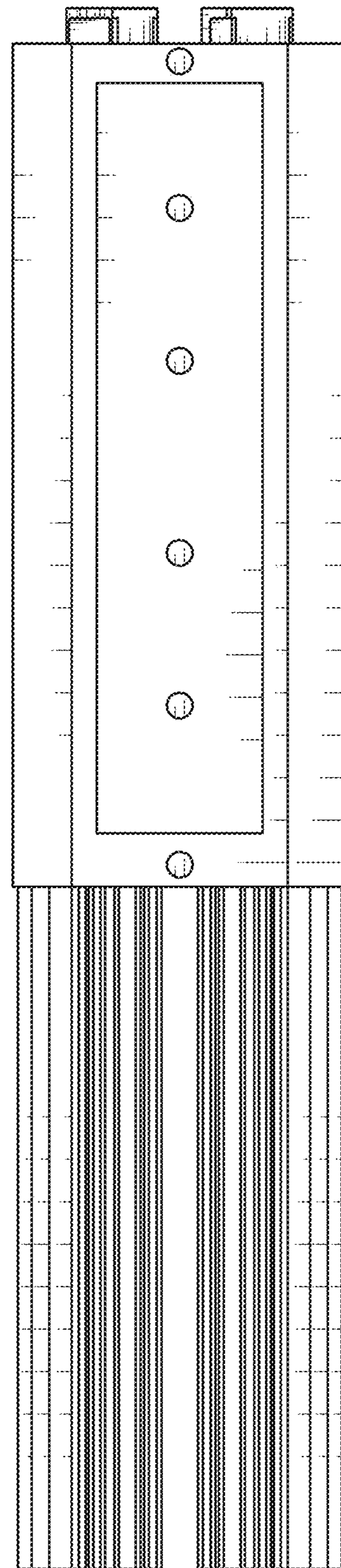
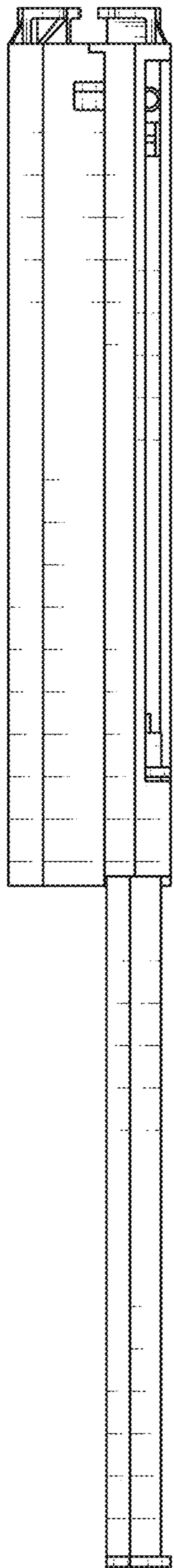
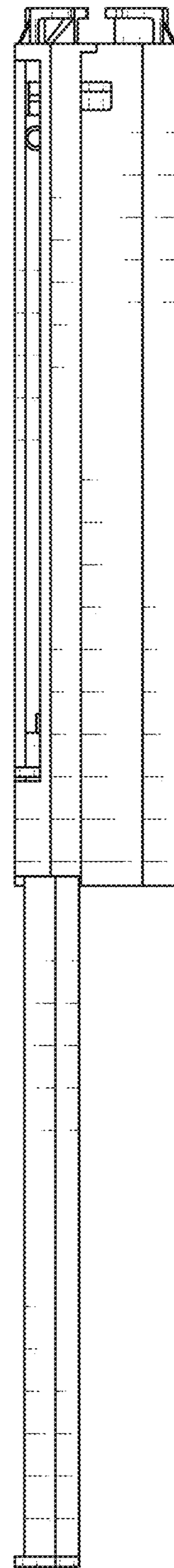
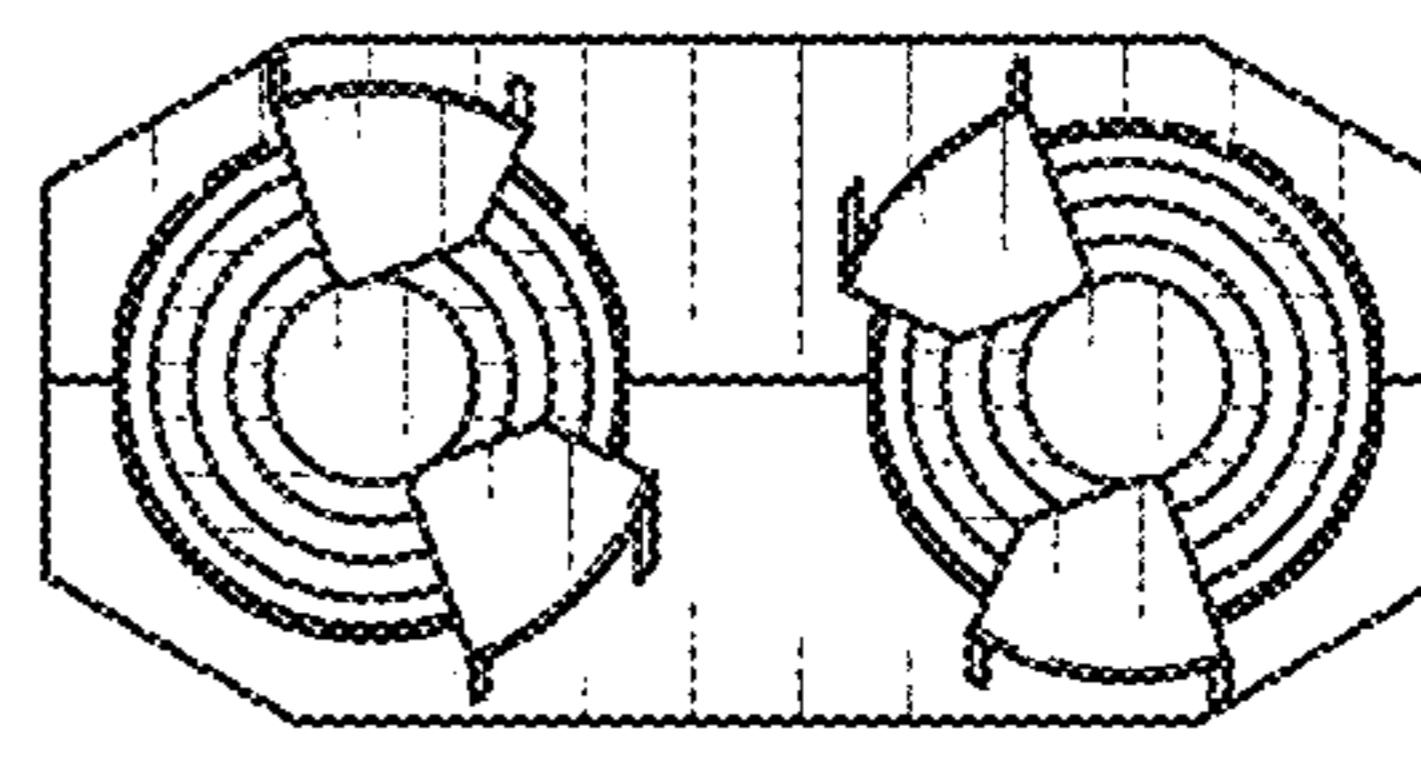
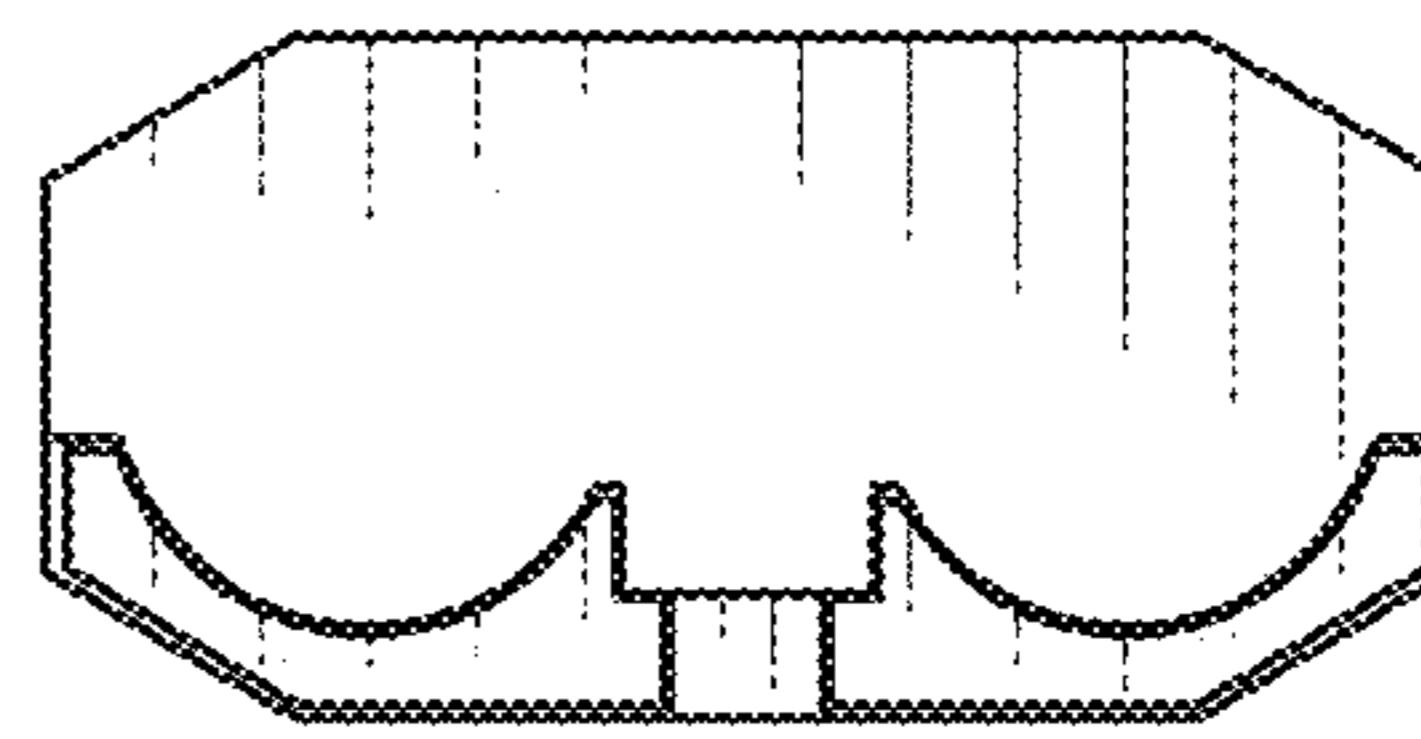


FIG. 34

**FIG. 35****FIG. 36****FIG. 37****FIG. 38**

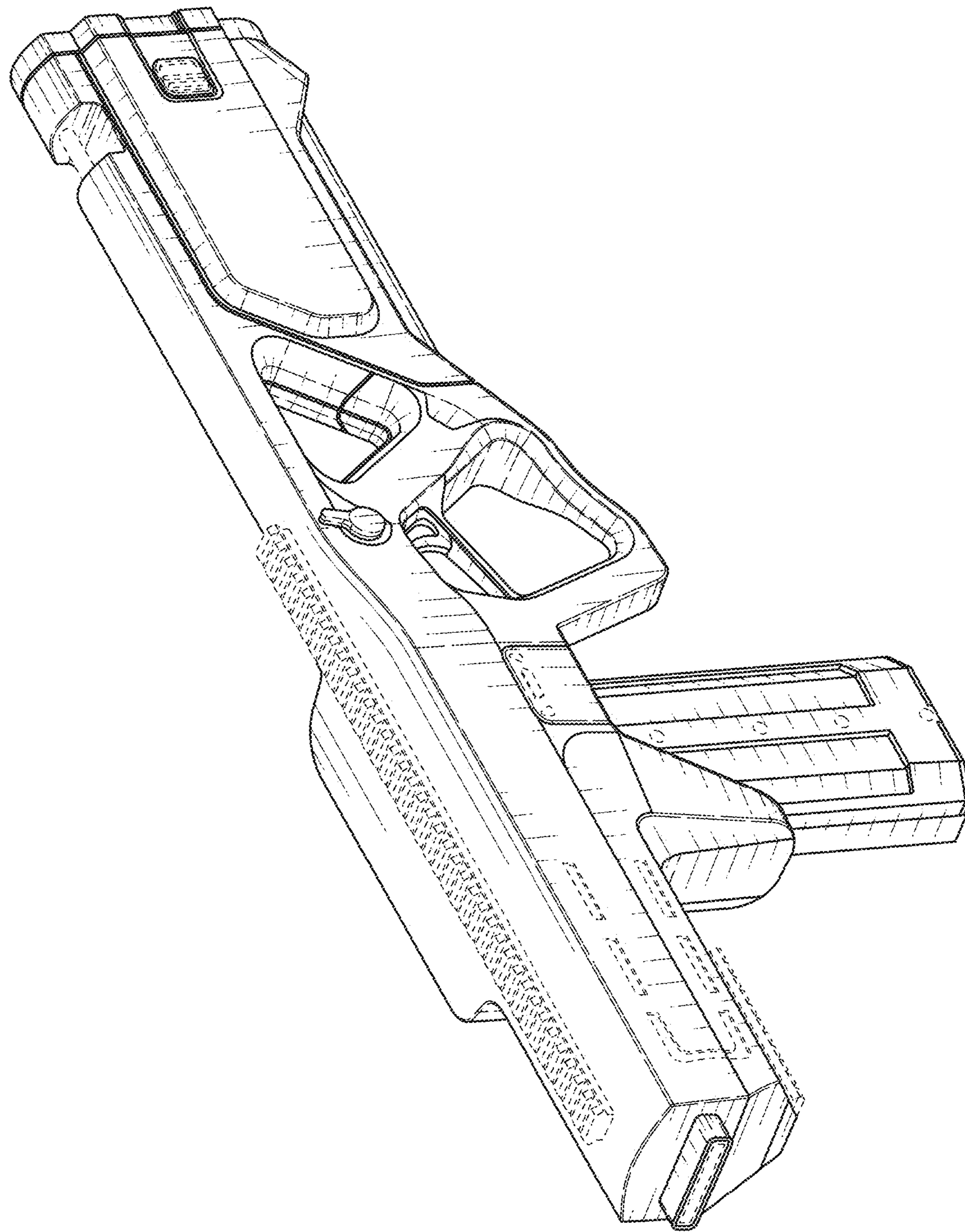


FIG. 39

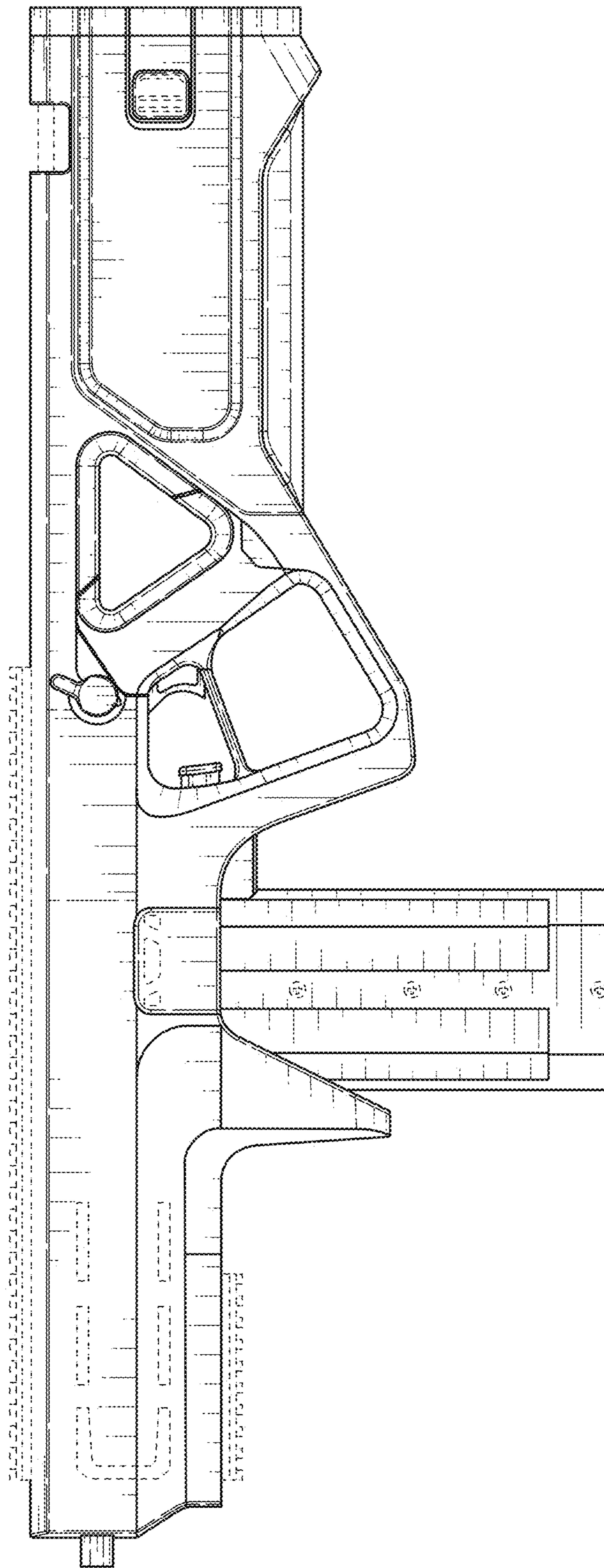


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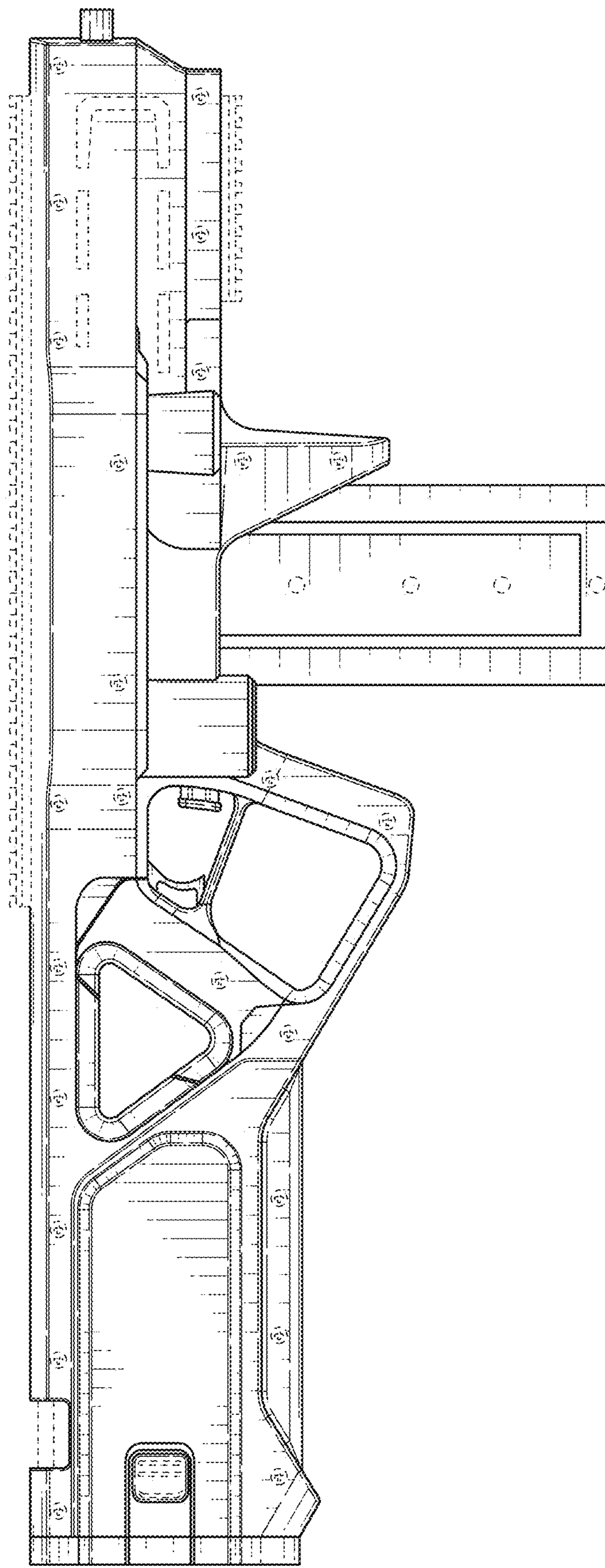


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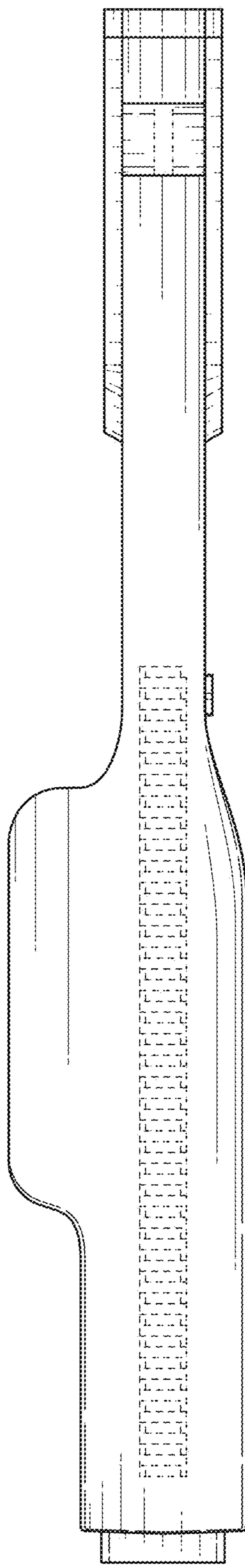


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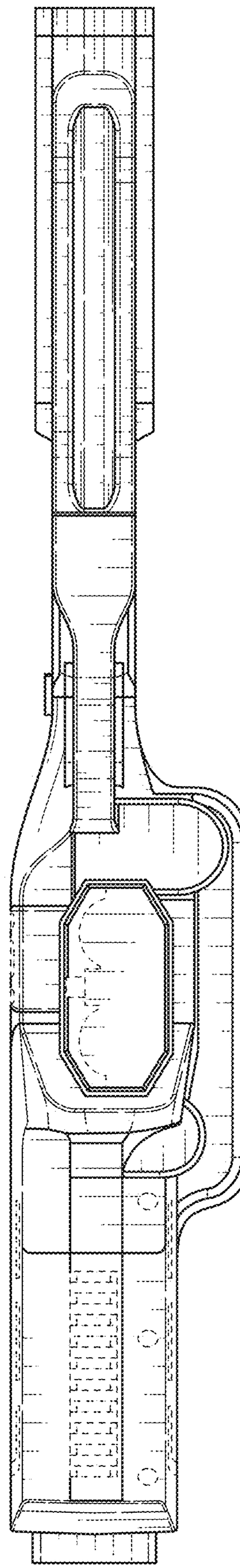


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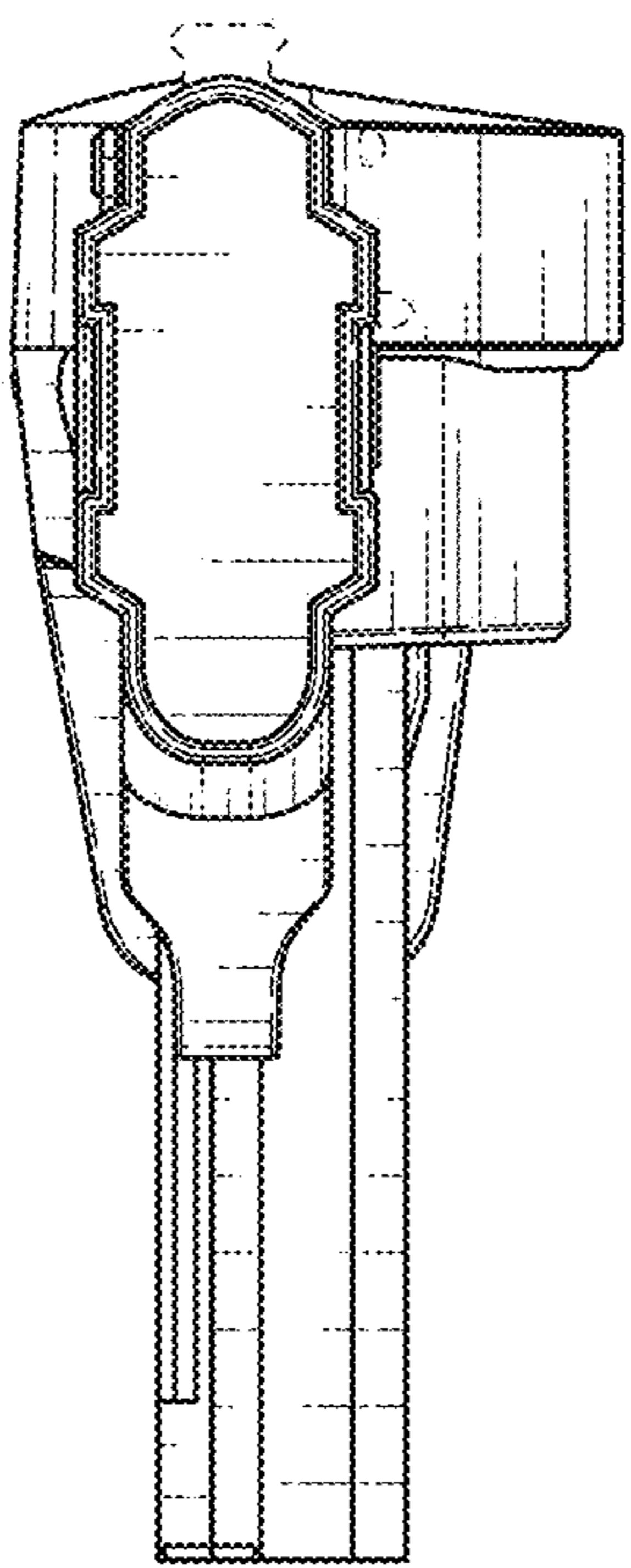


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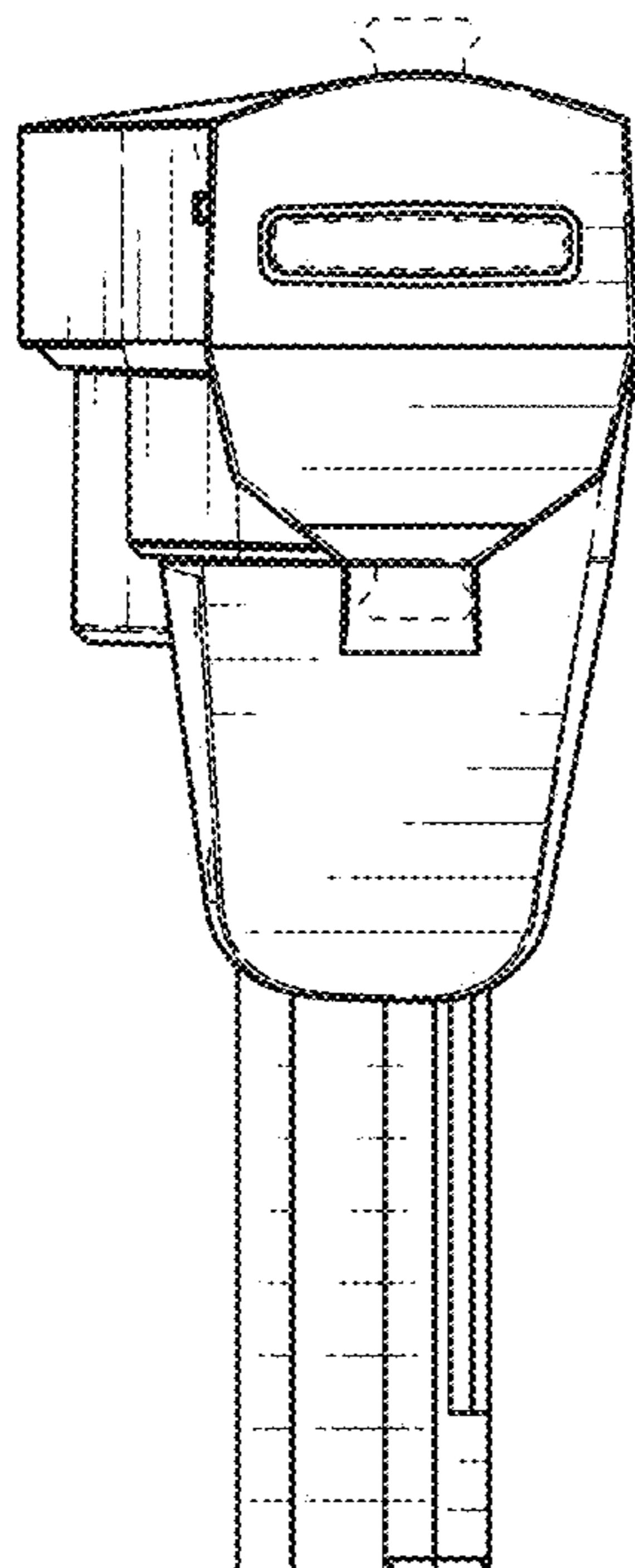


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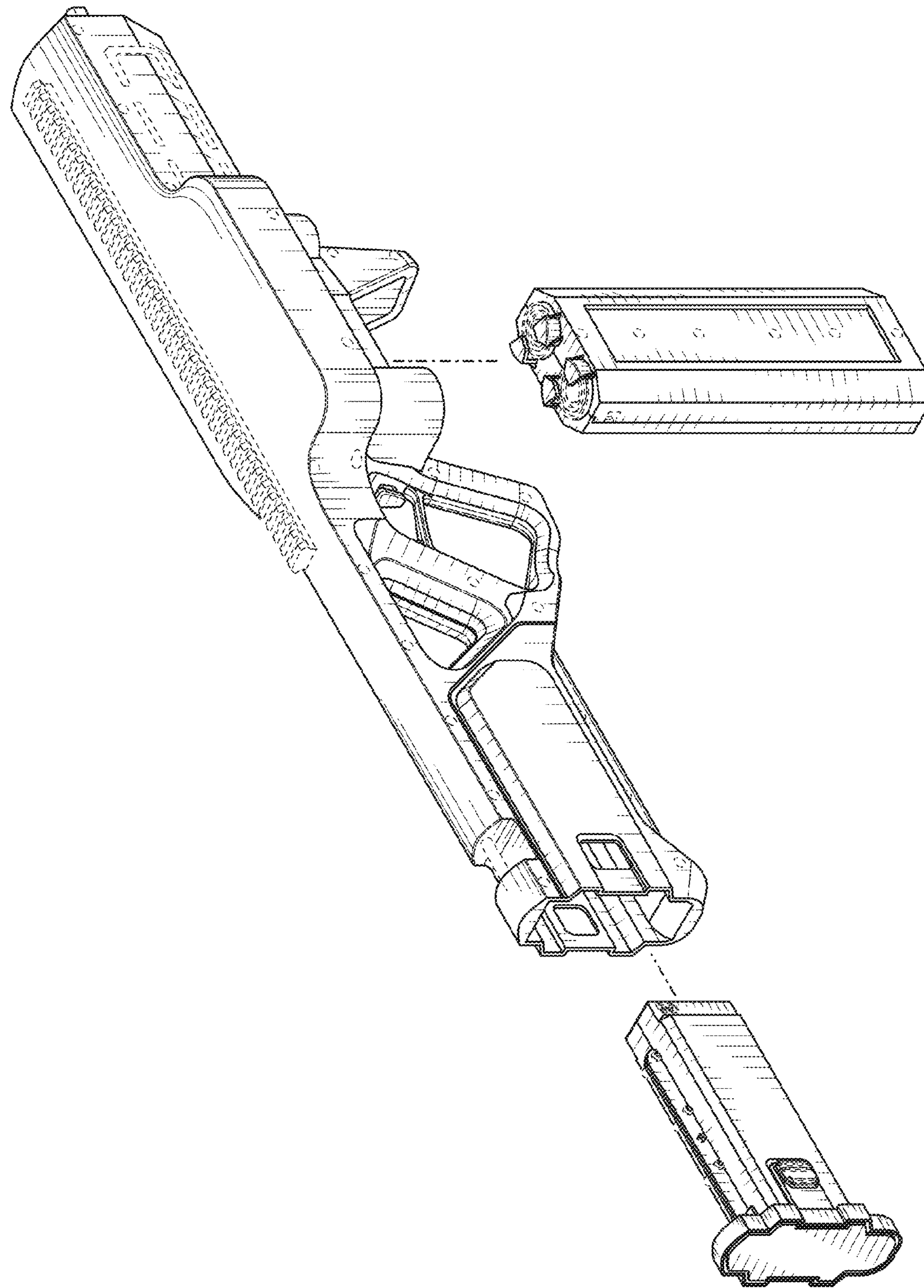


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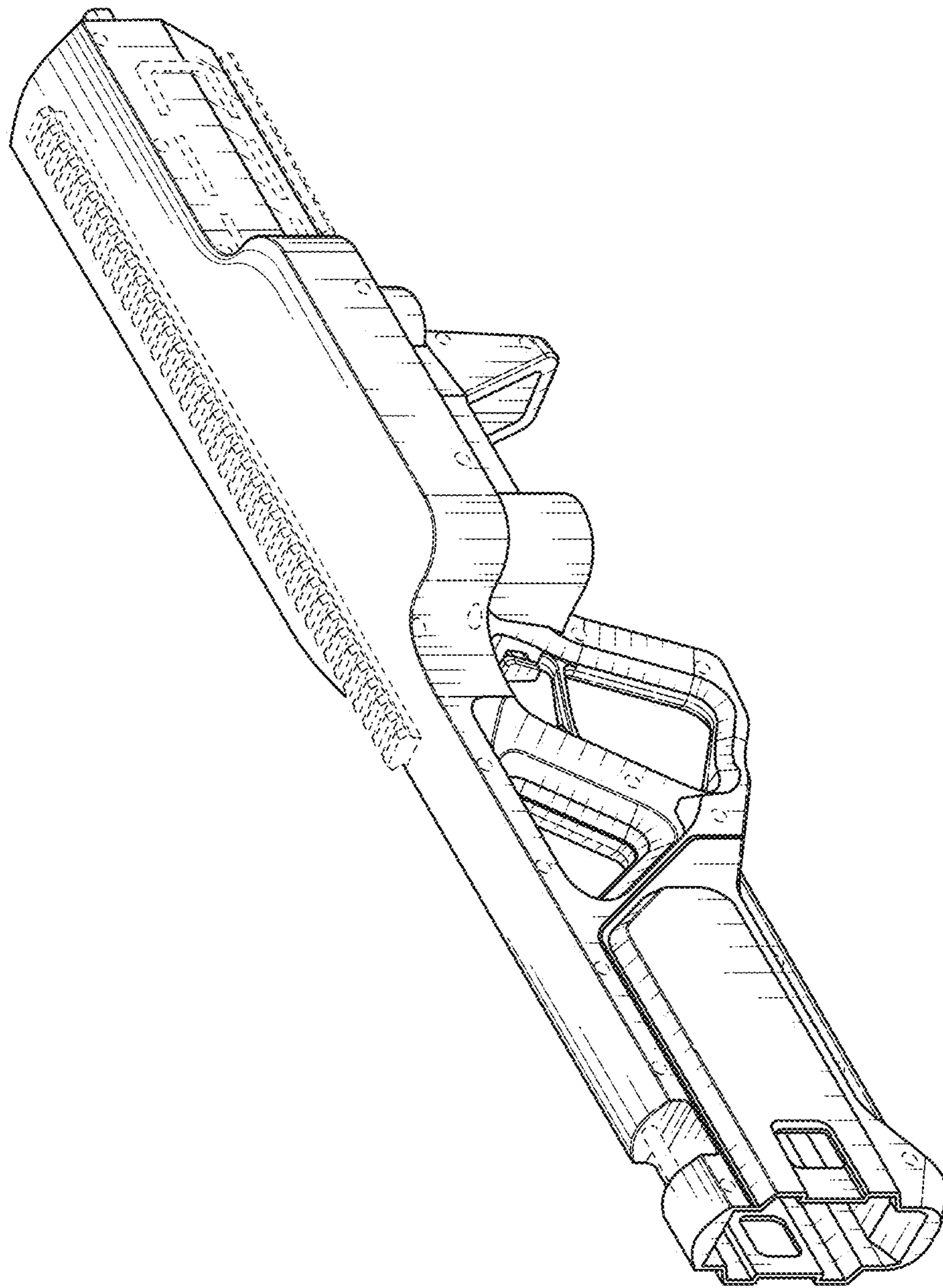


FIG. 47

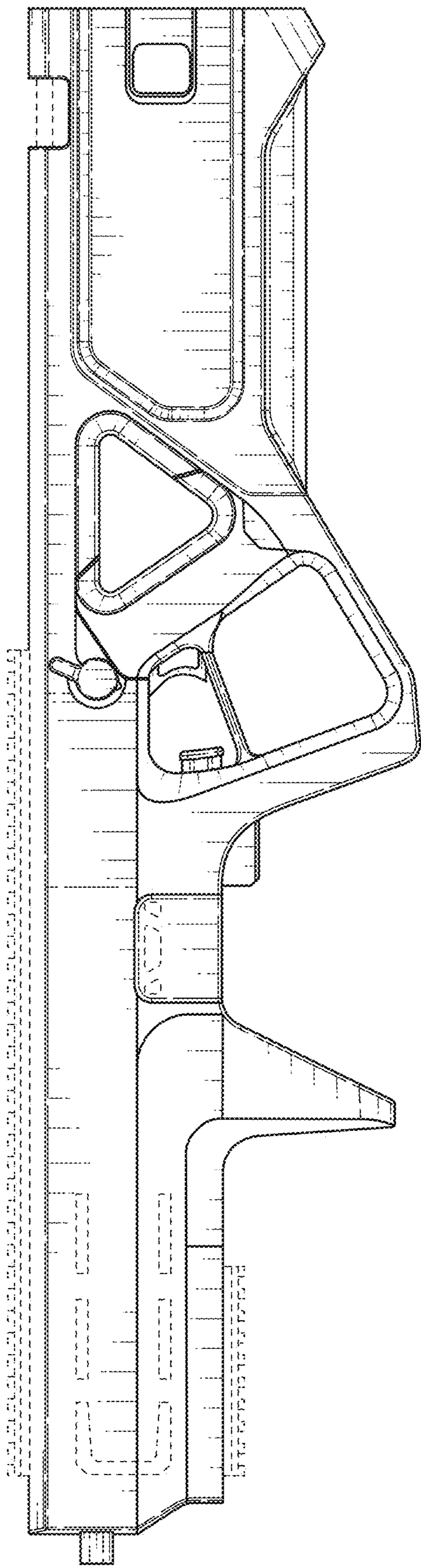


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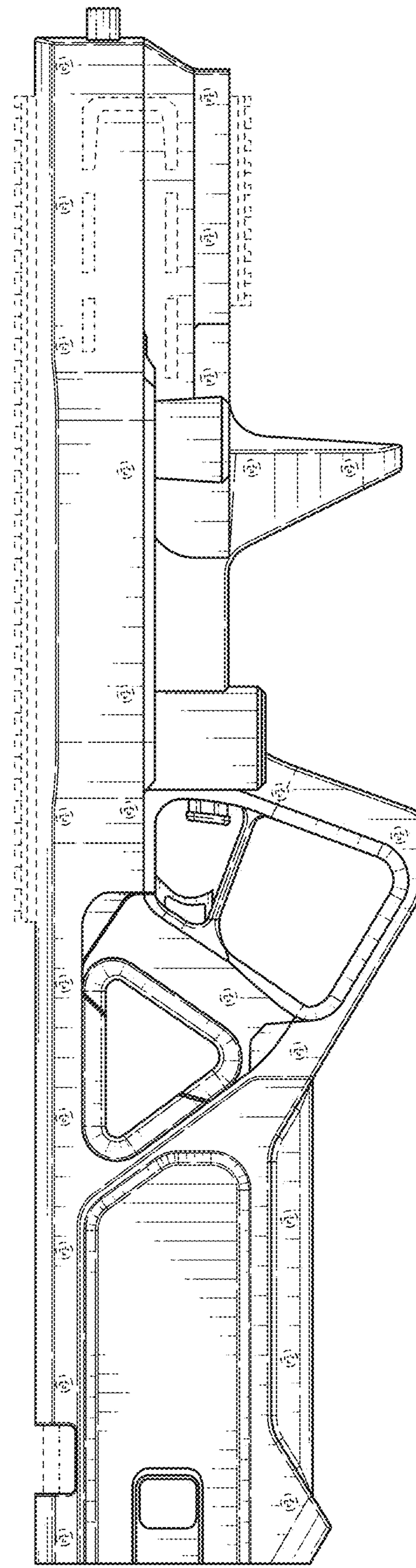


FIG. 49

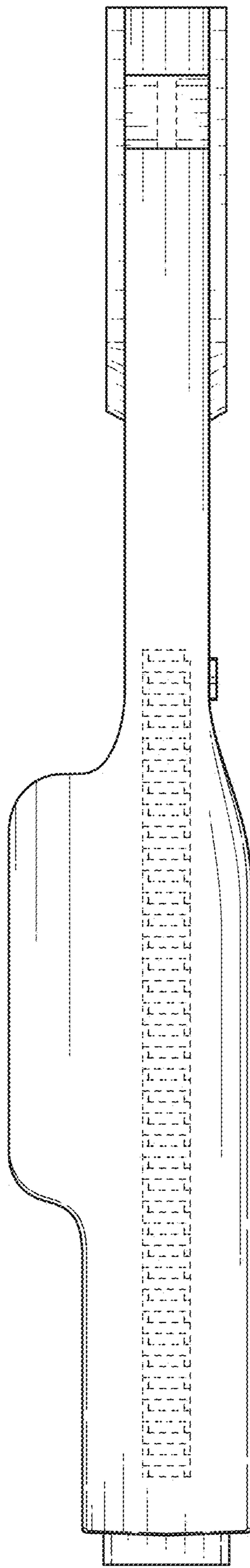


FIG. 50

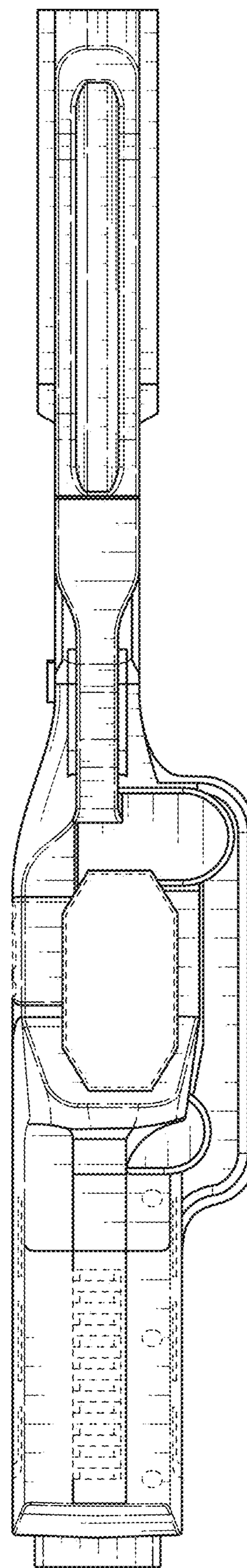


FIG. 51

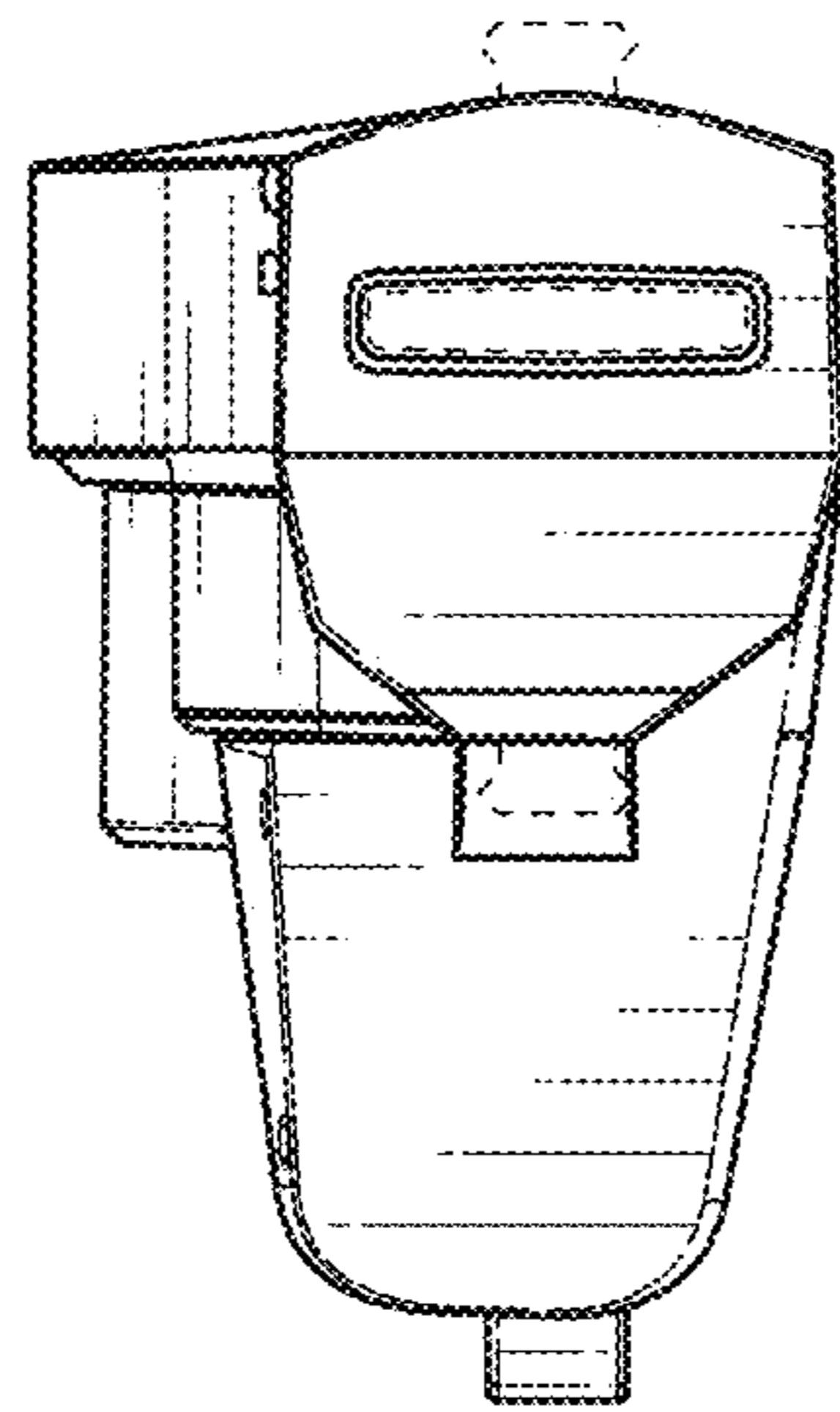


FIG. 52

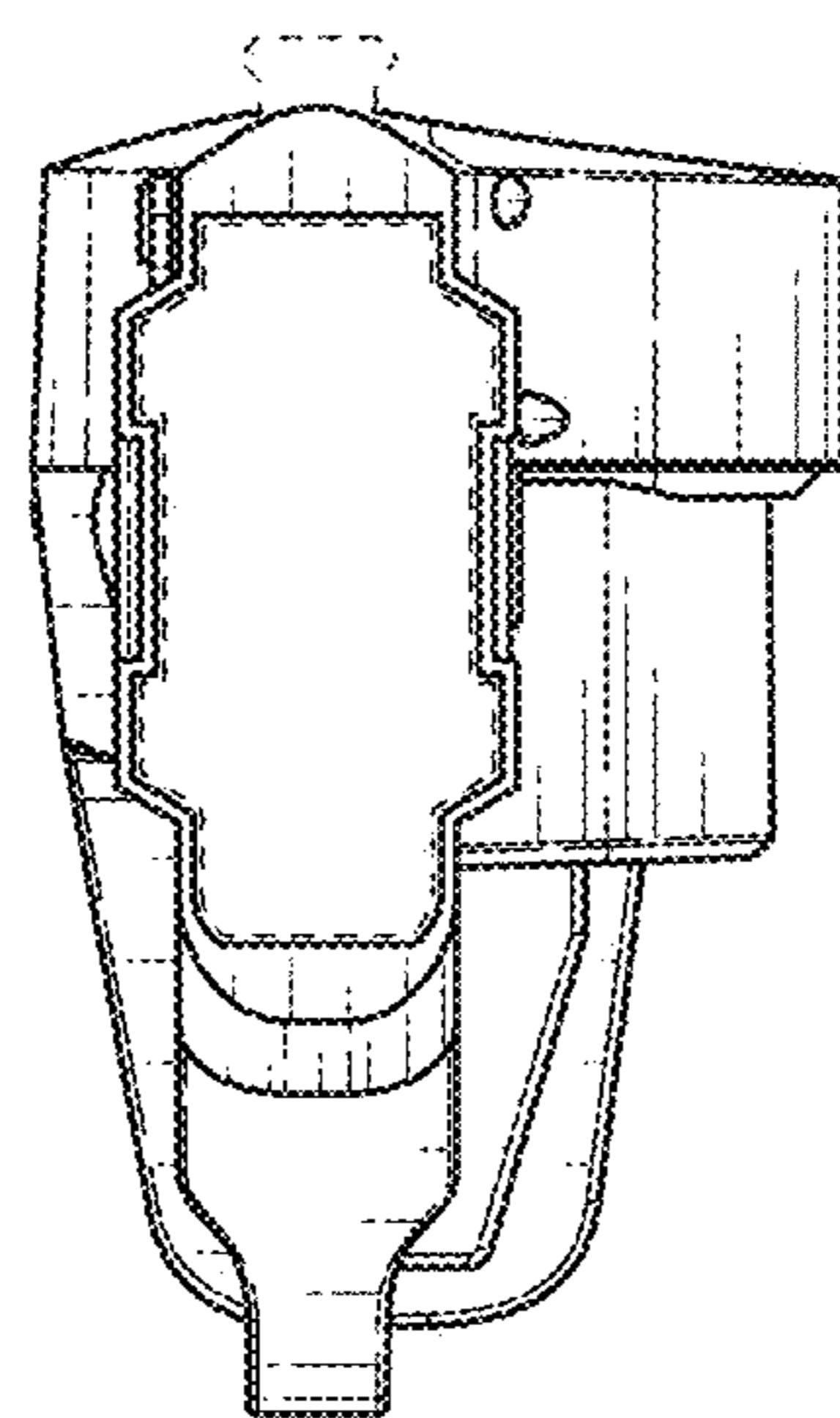


FIG. 53

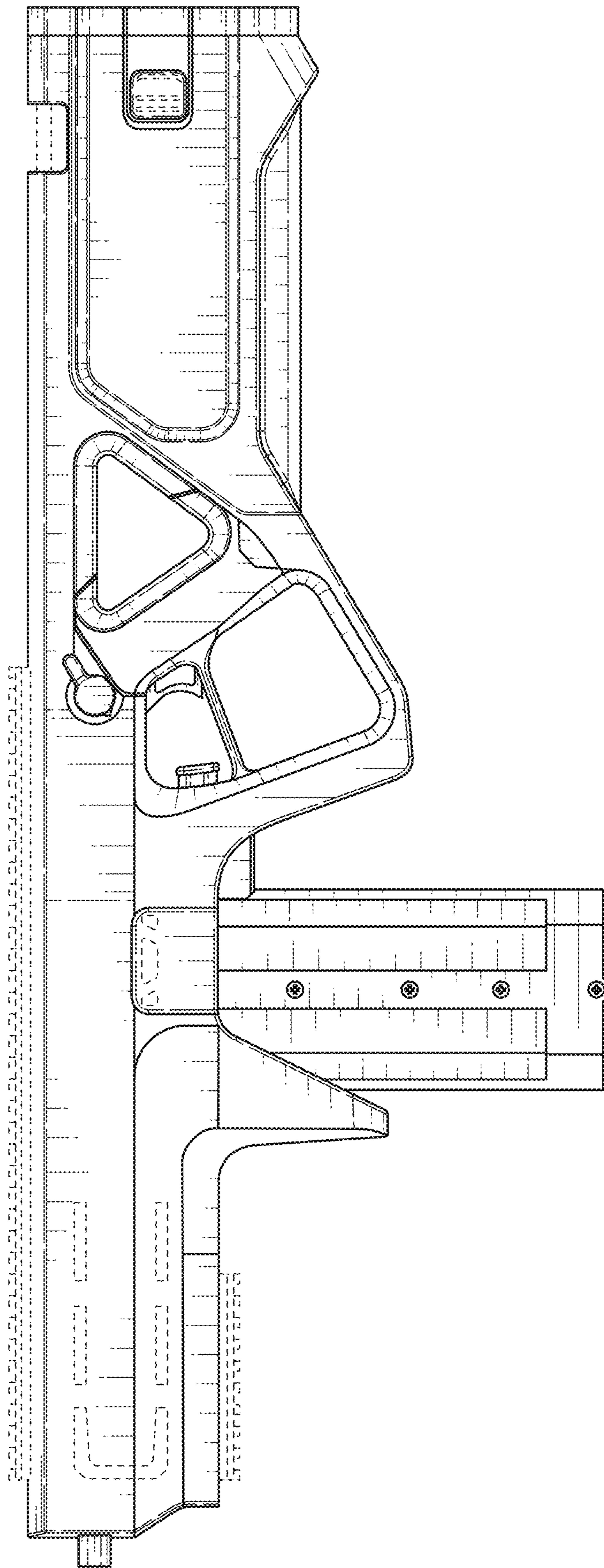


FIG. 54

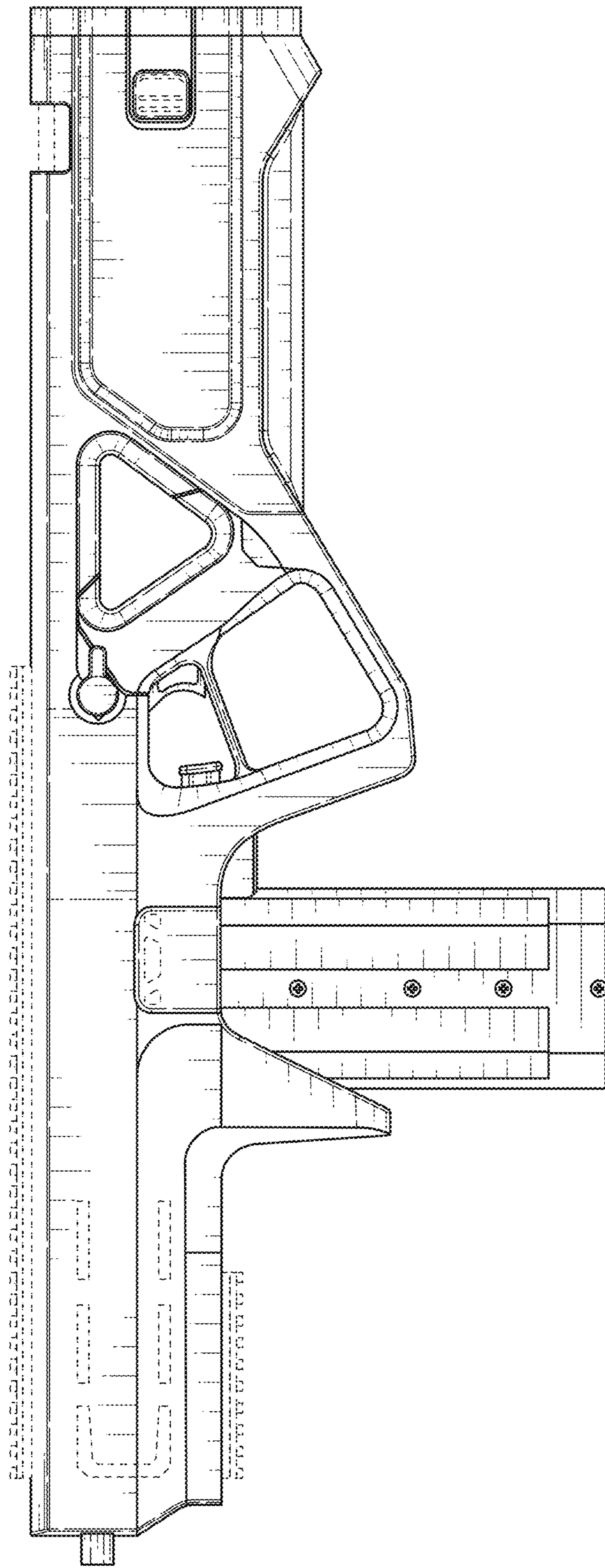


FIG. 55

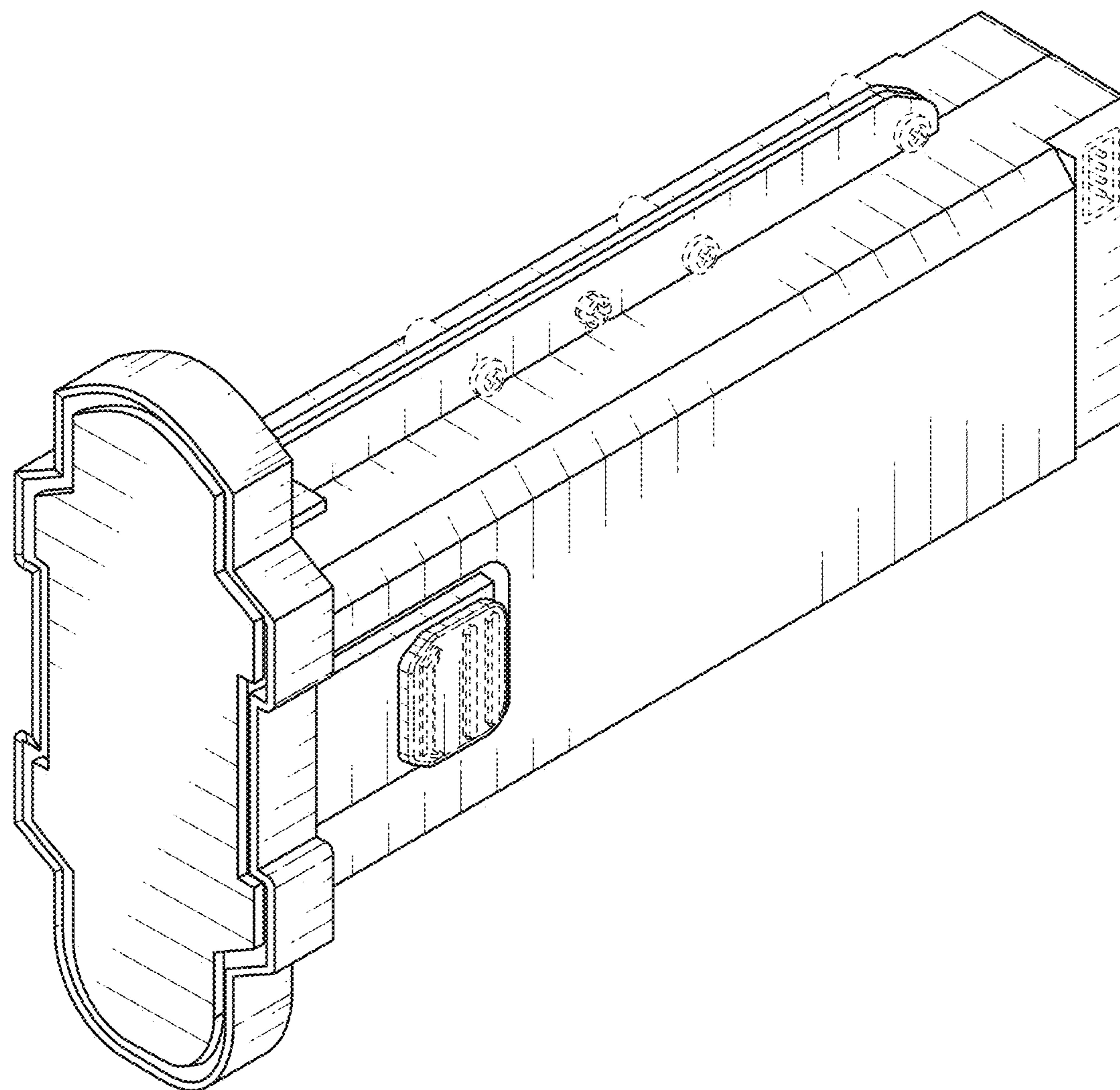


FIG. 56

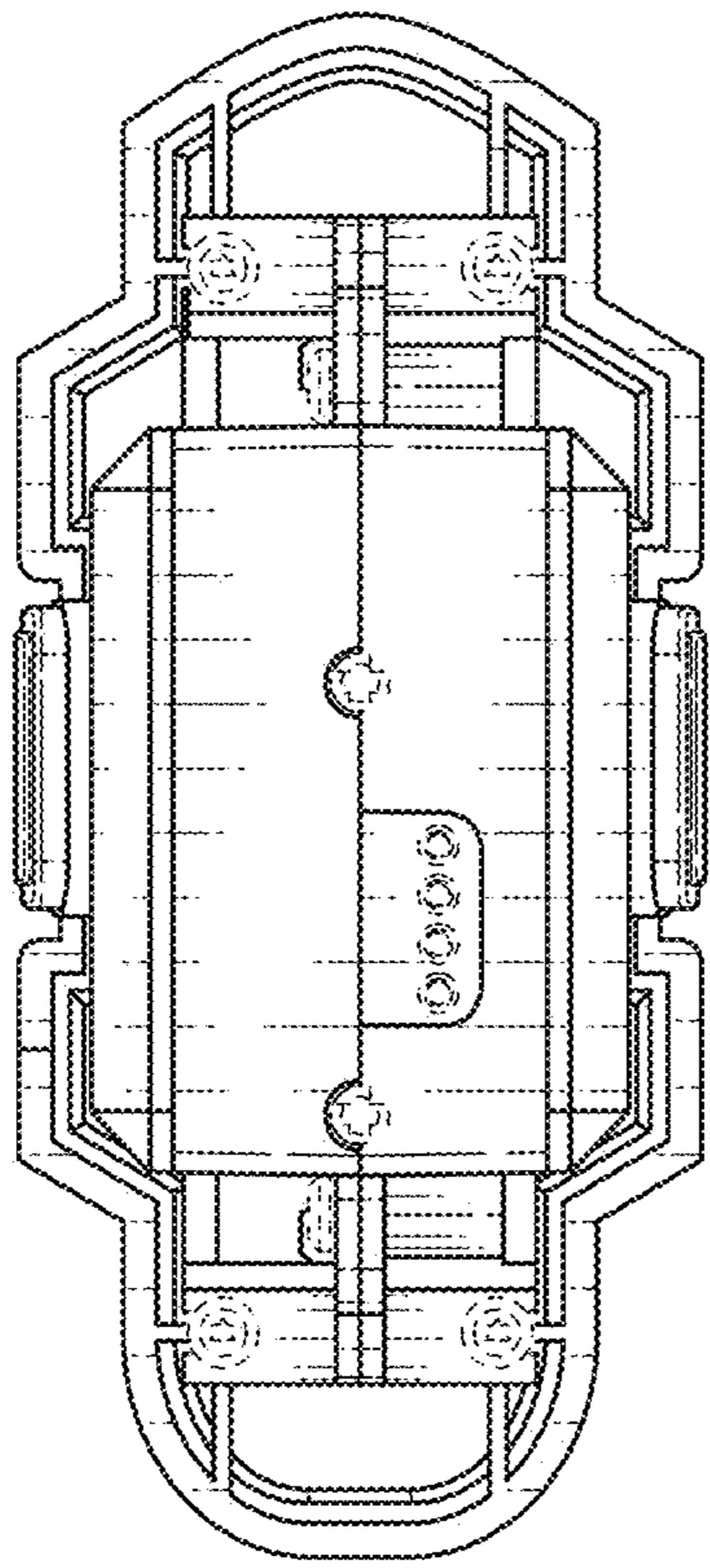


FIG. 57

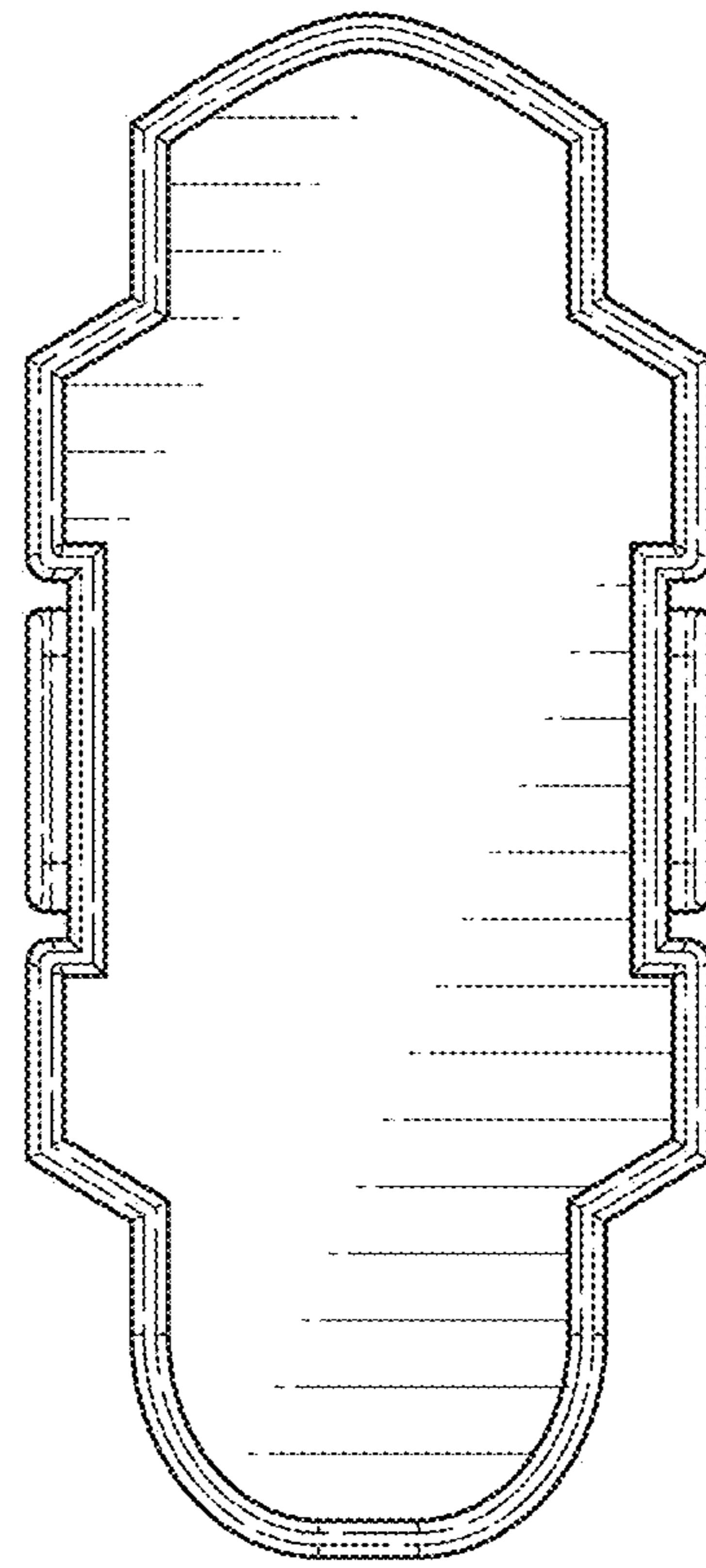


FIG. 58

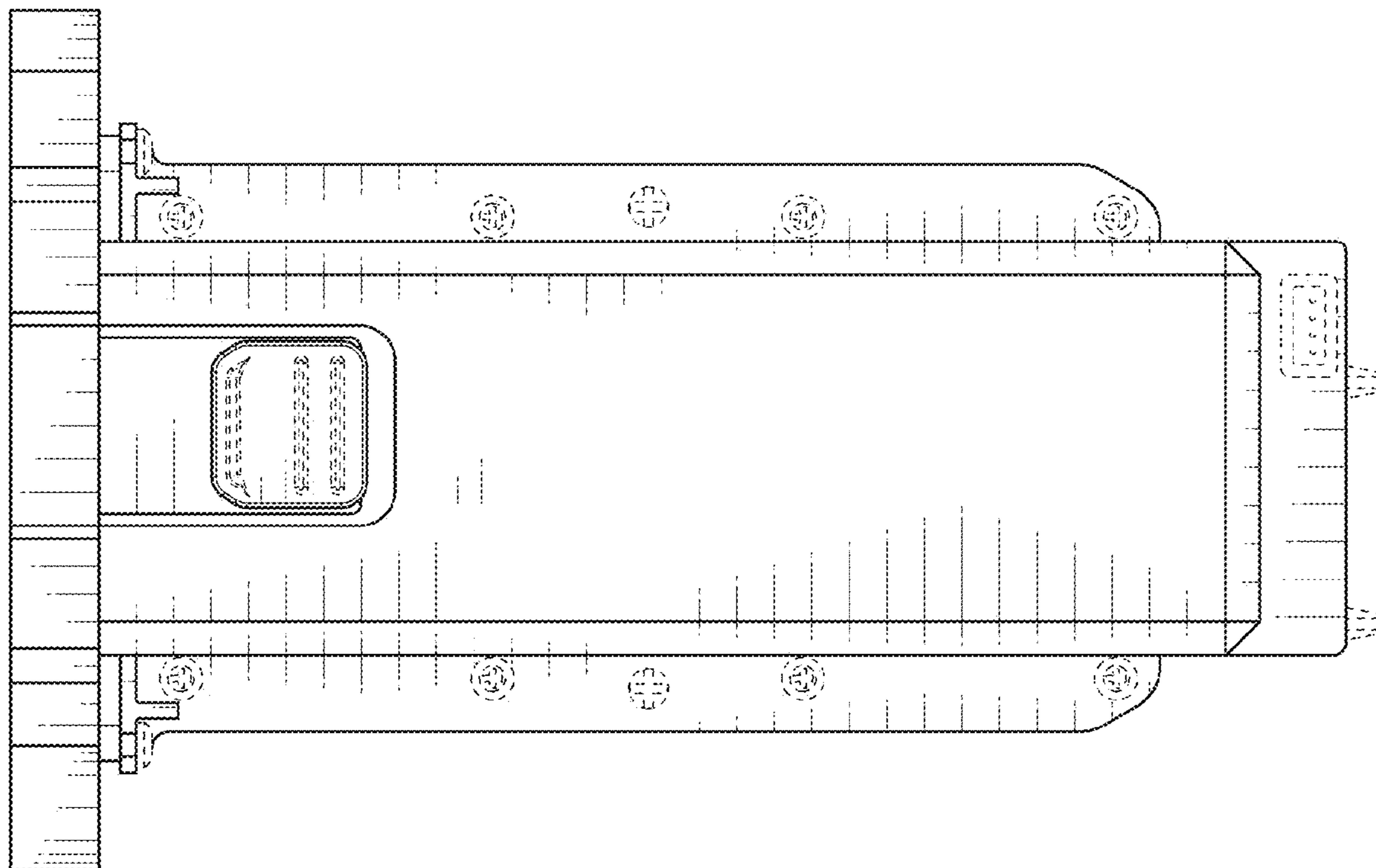


FIG. 59

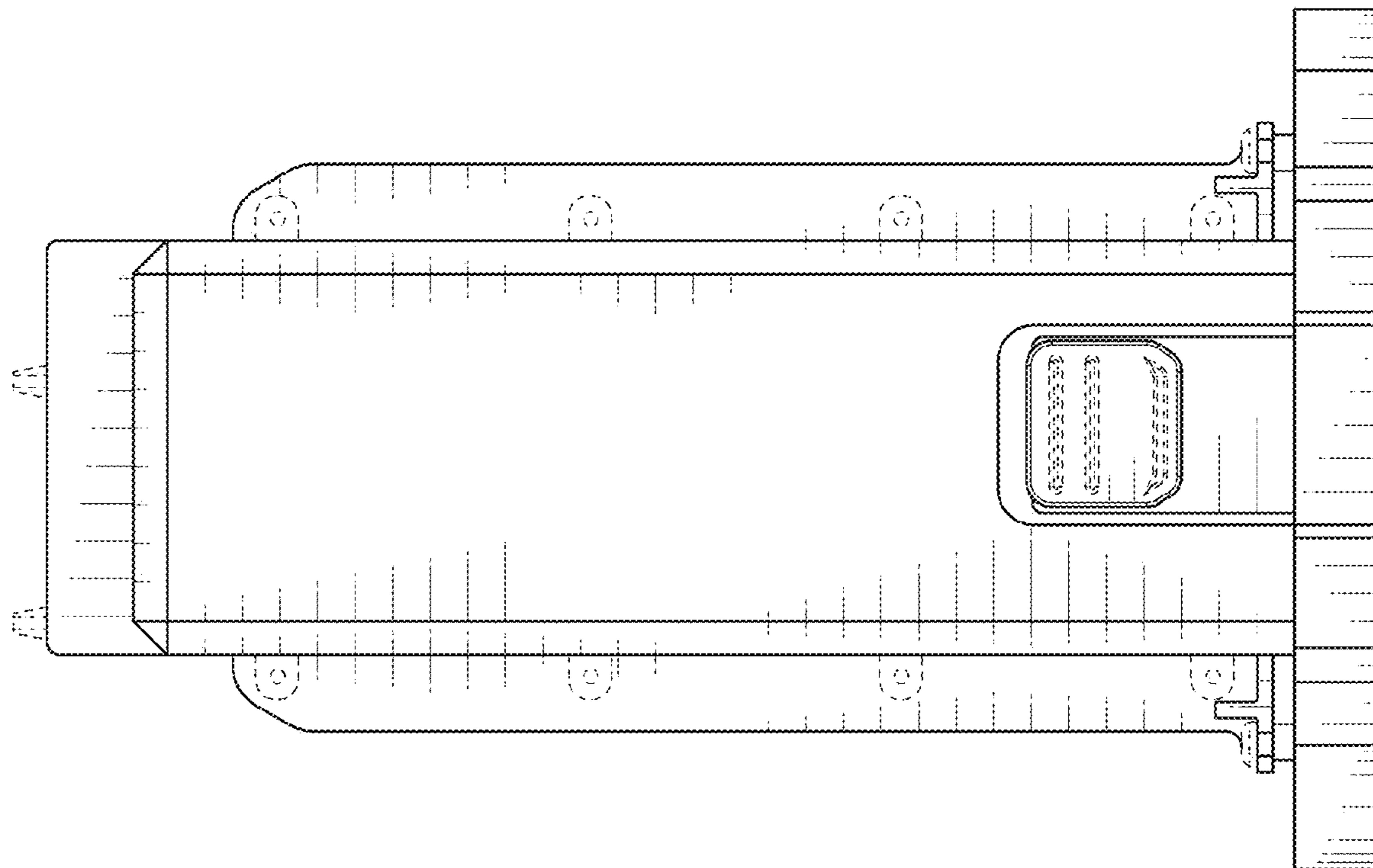


FIG. 60

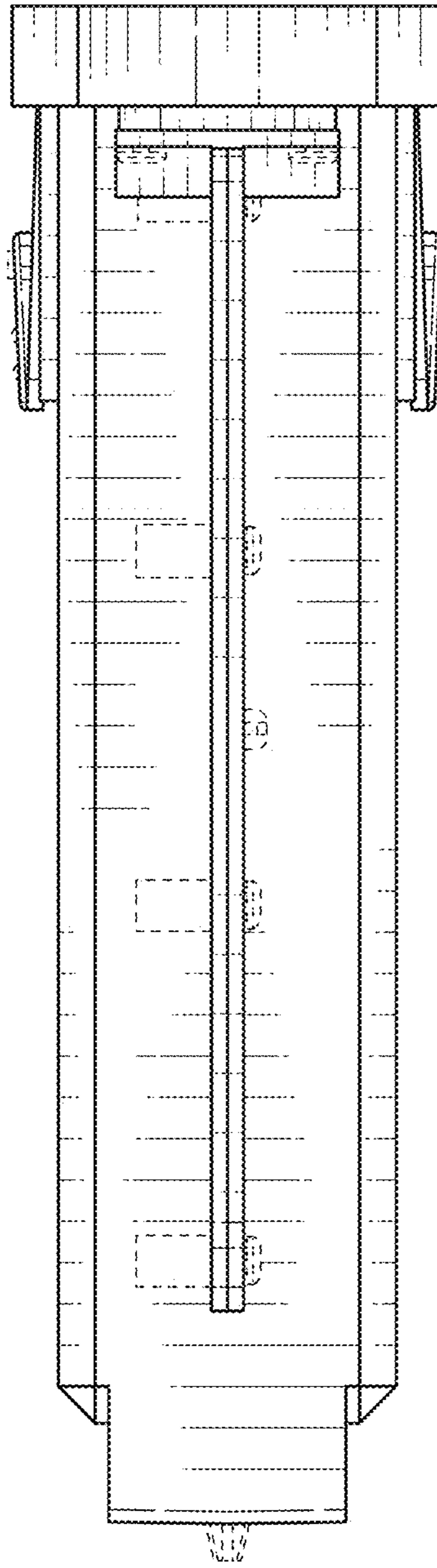


FIG. 61

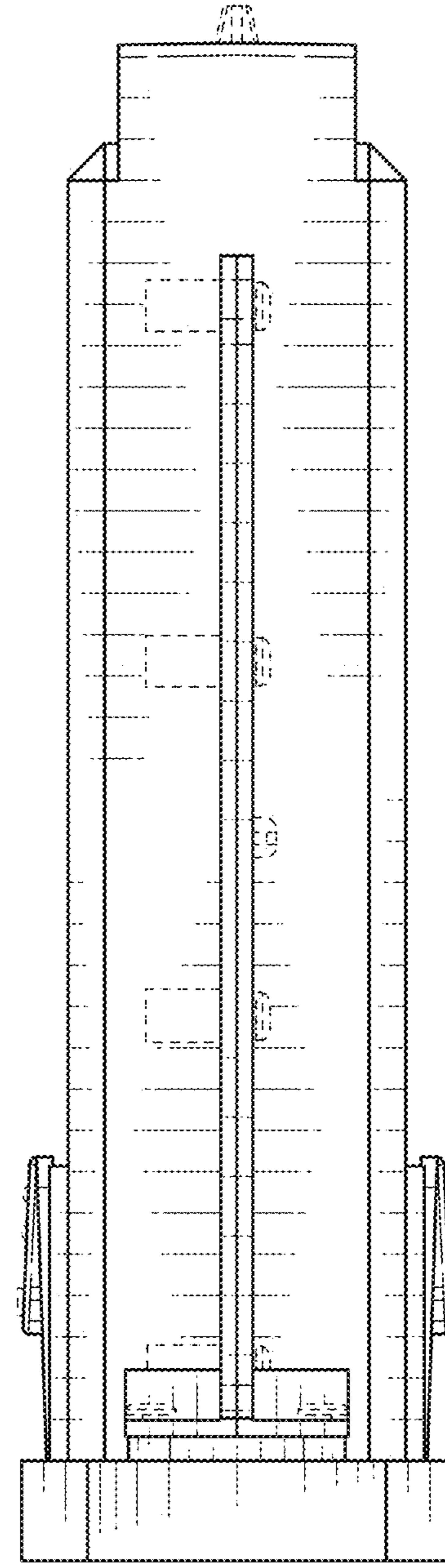


FIG. 62

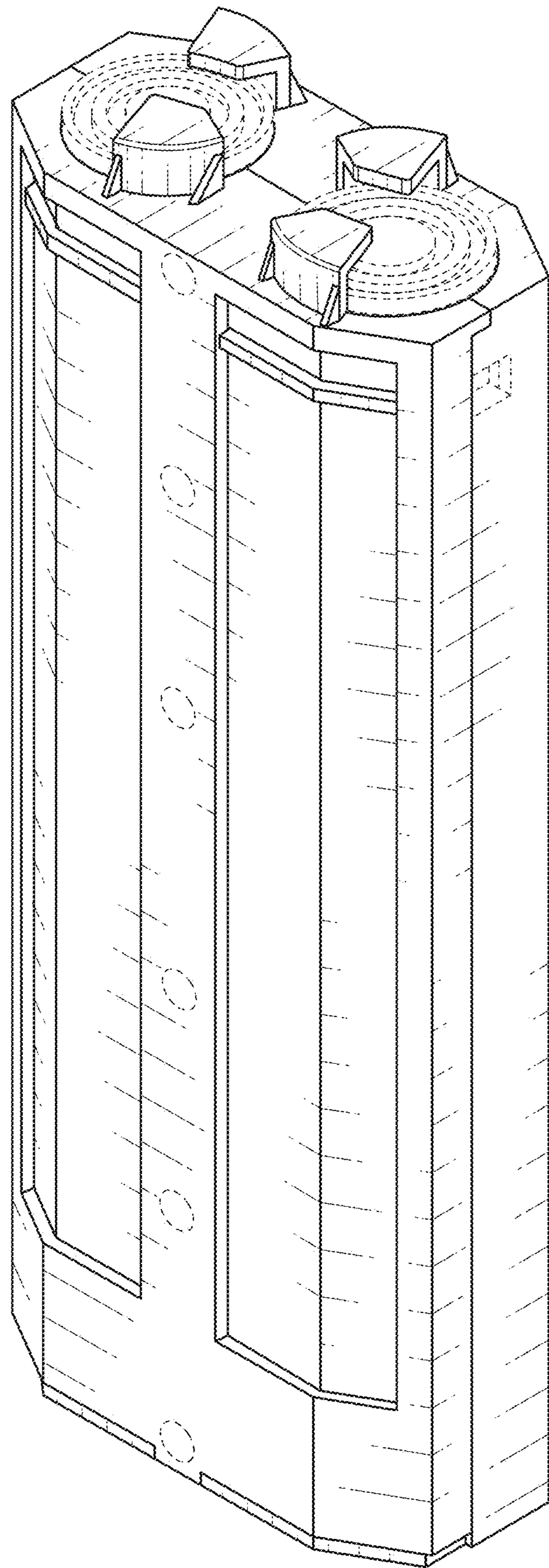
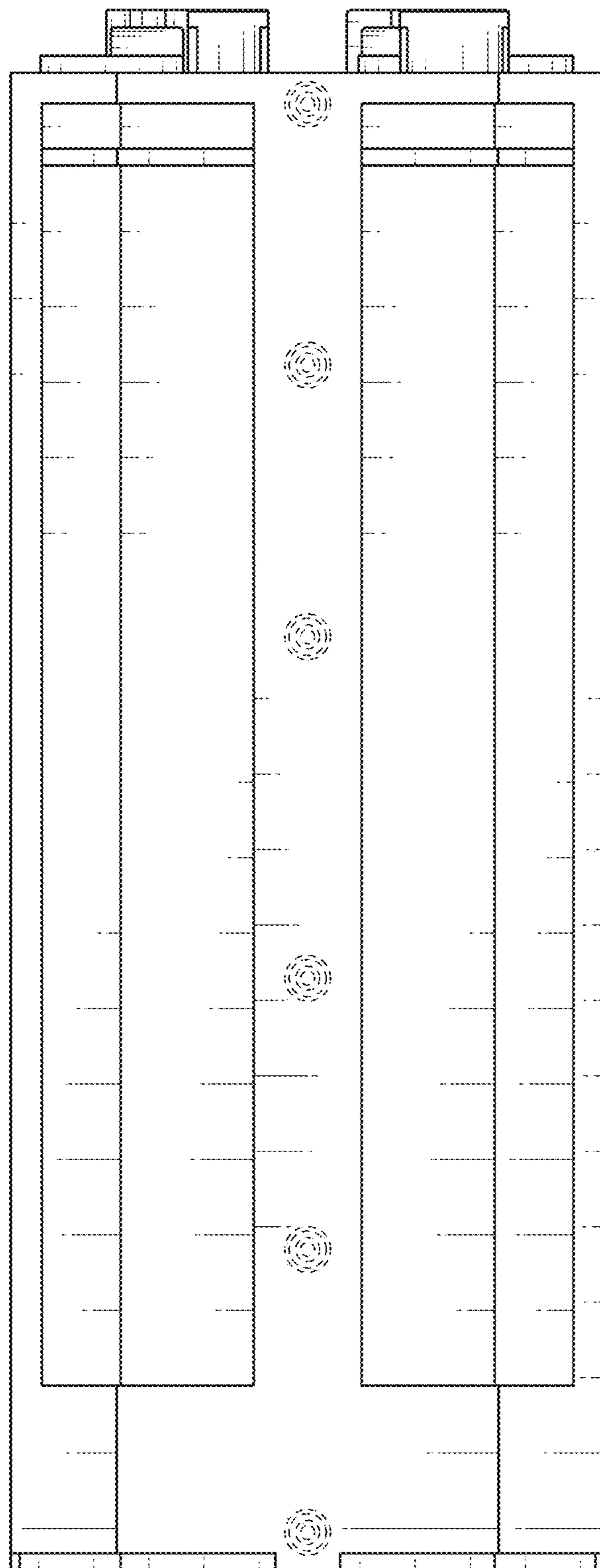


FIG. 63

**FIG. 64**

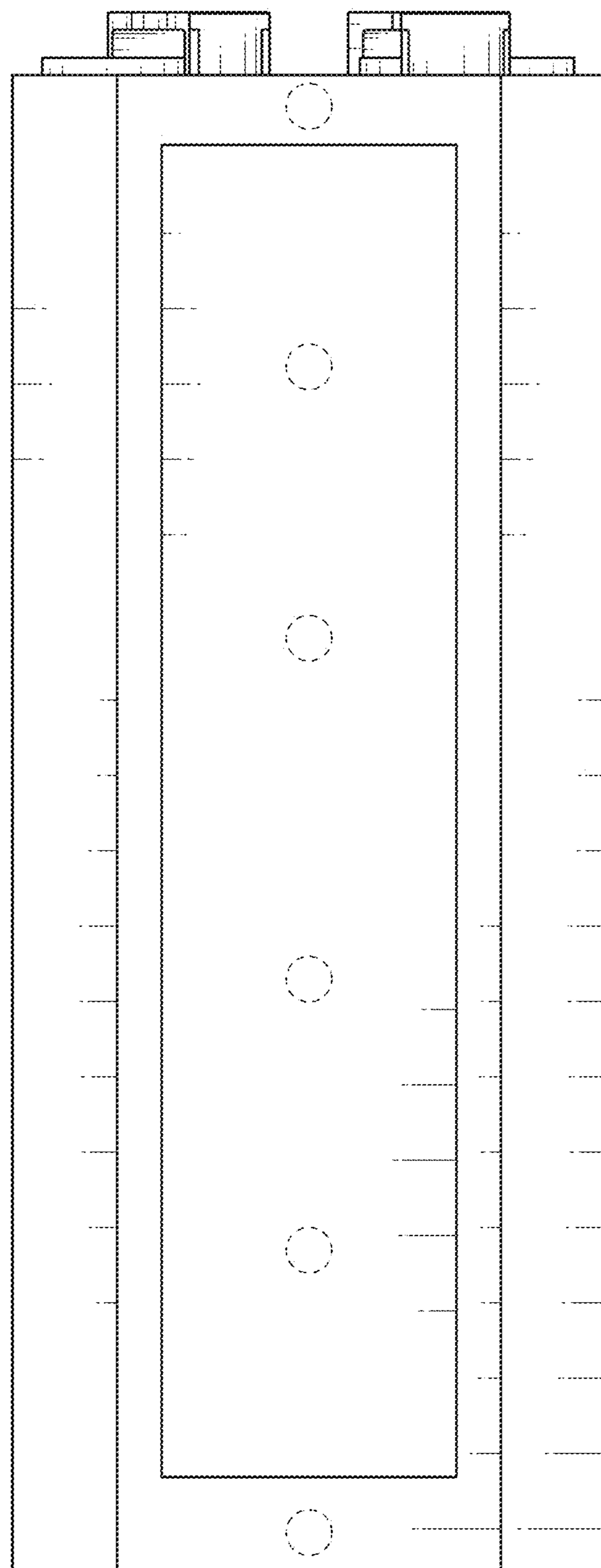


FIG. 65

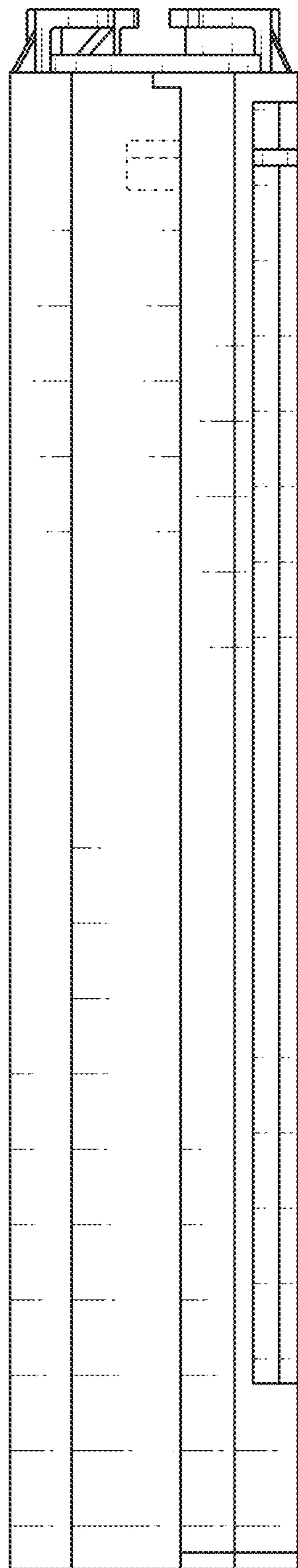


FIG. 66

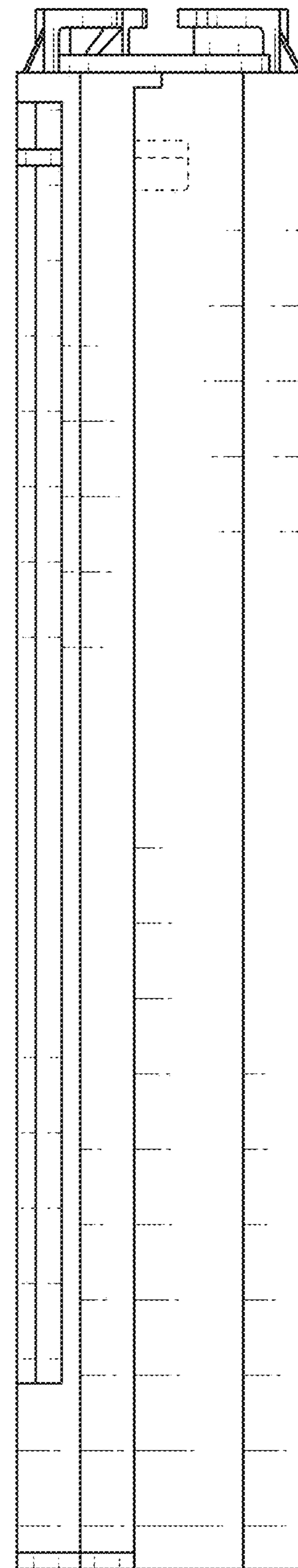


FIG. 67

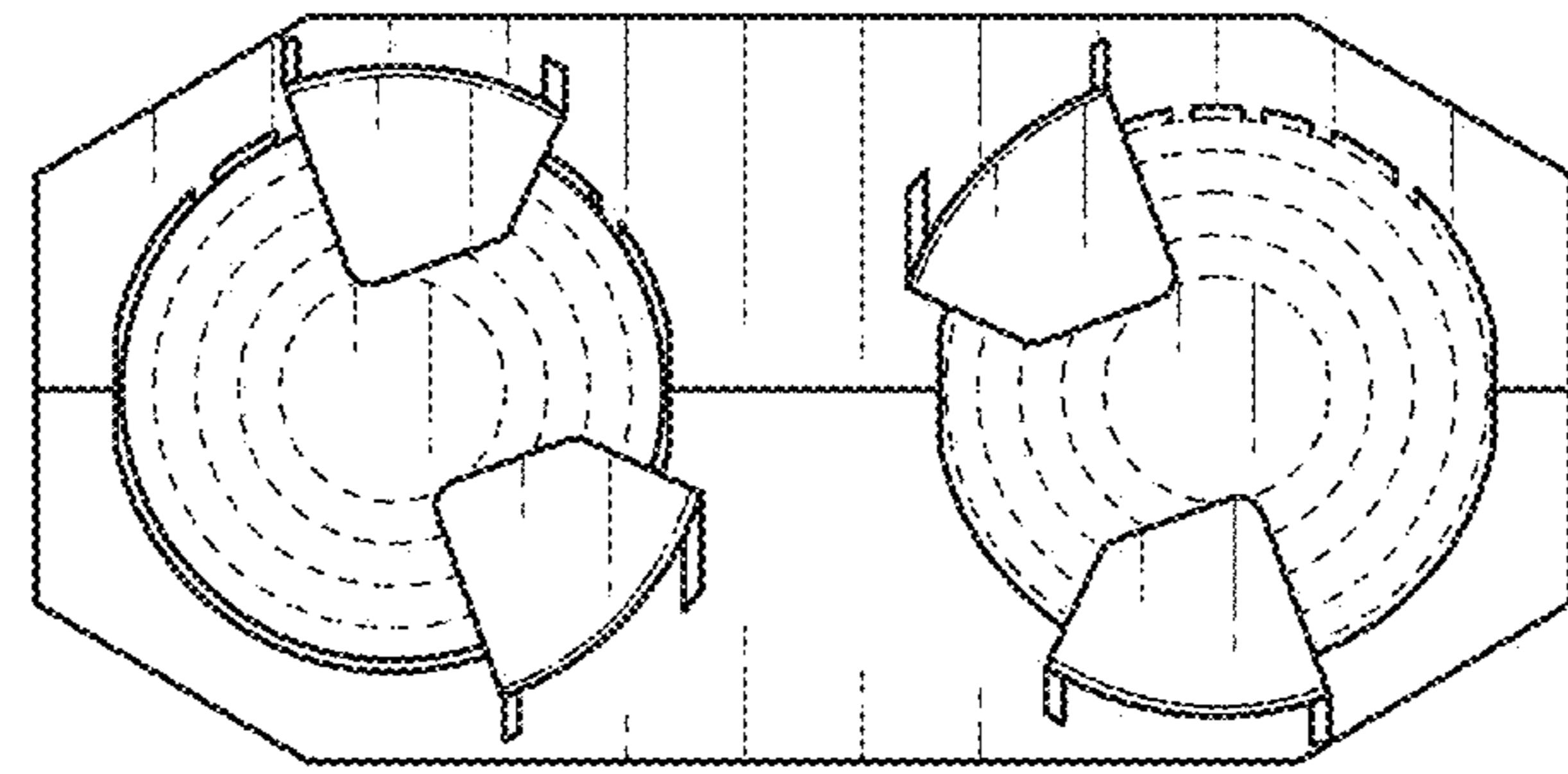


FIG. 68

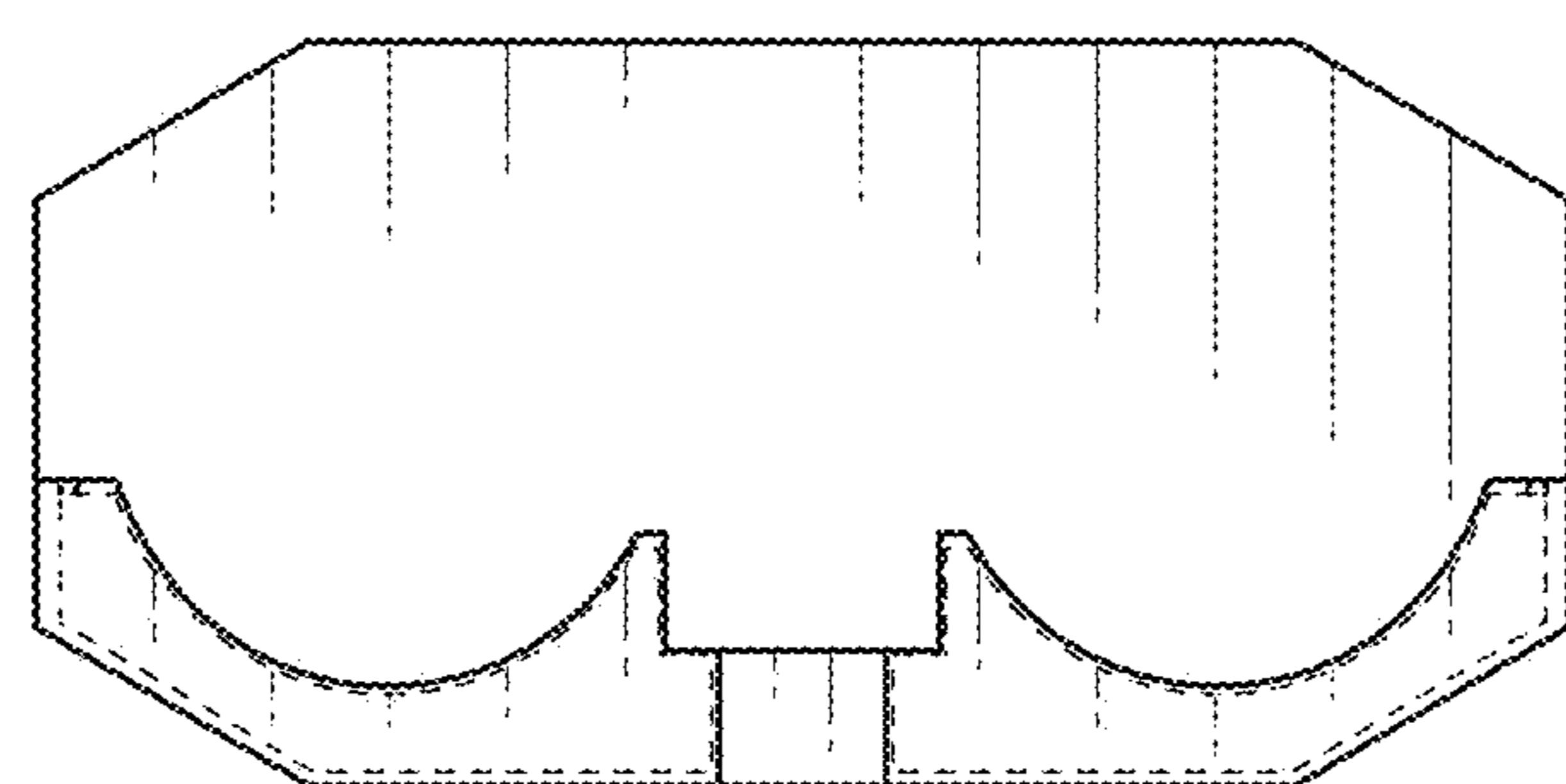


FIG. 69

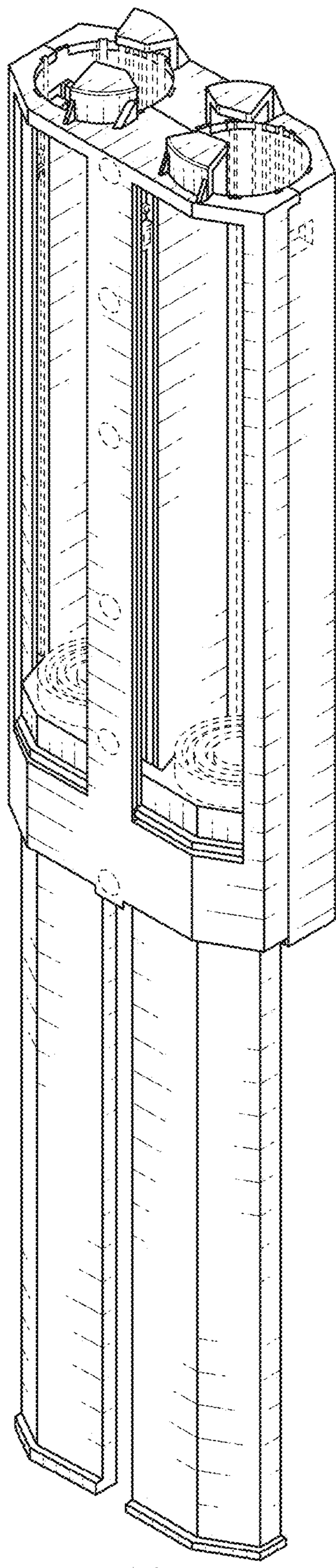


FIG. 70

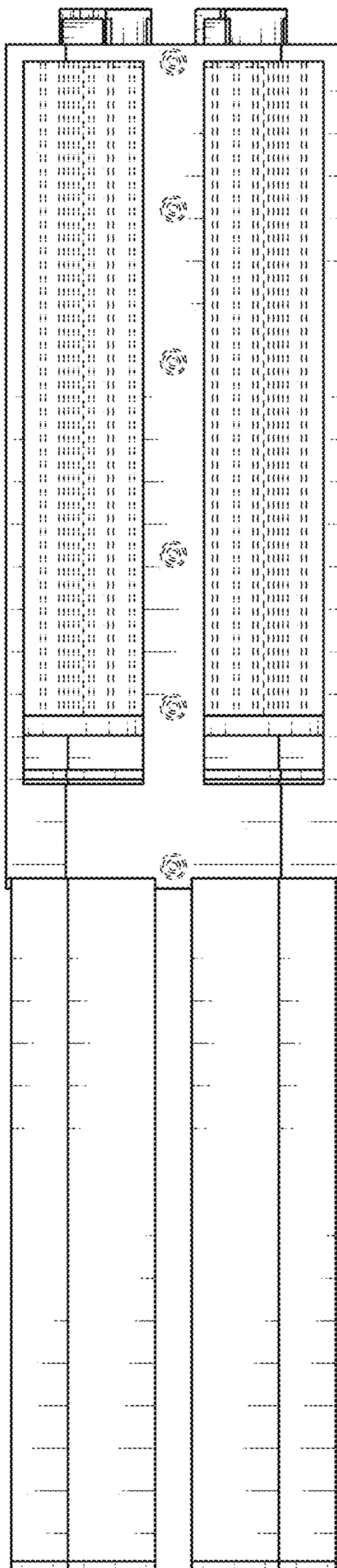


FIG. 71

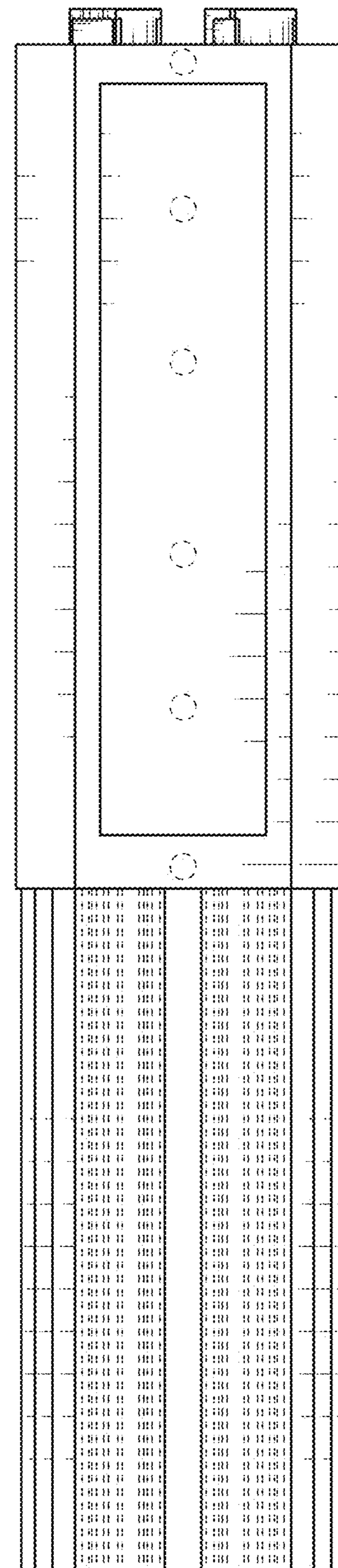
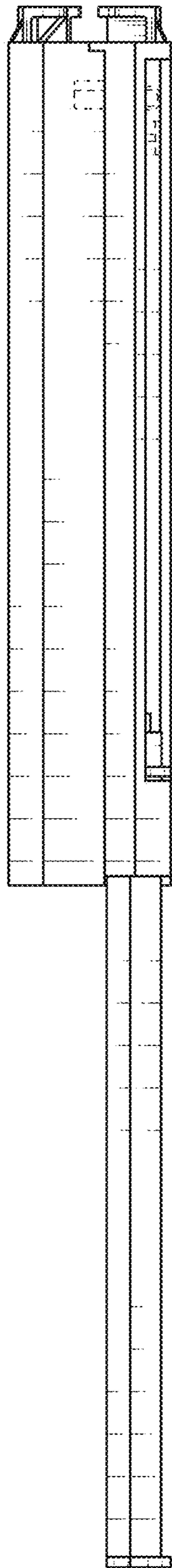
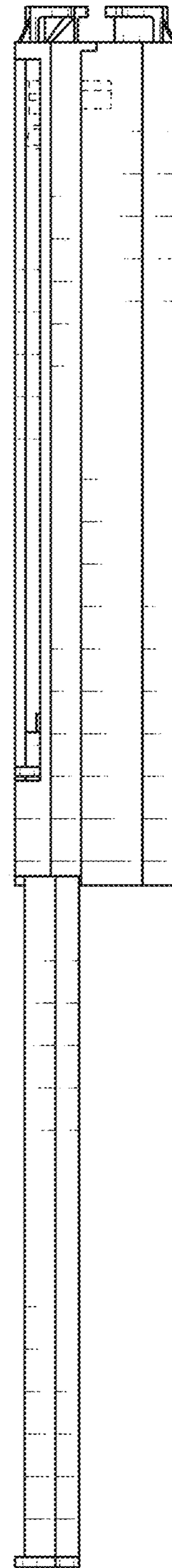
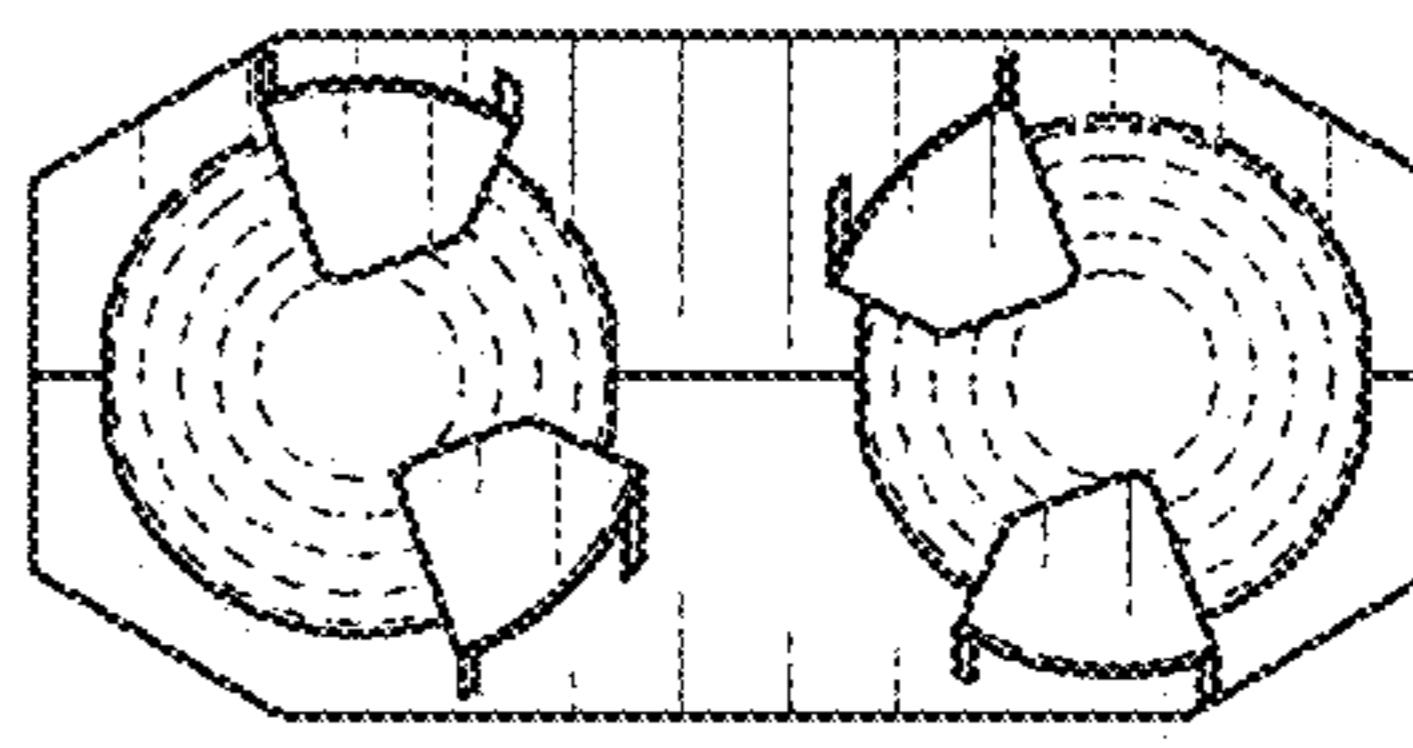
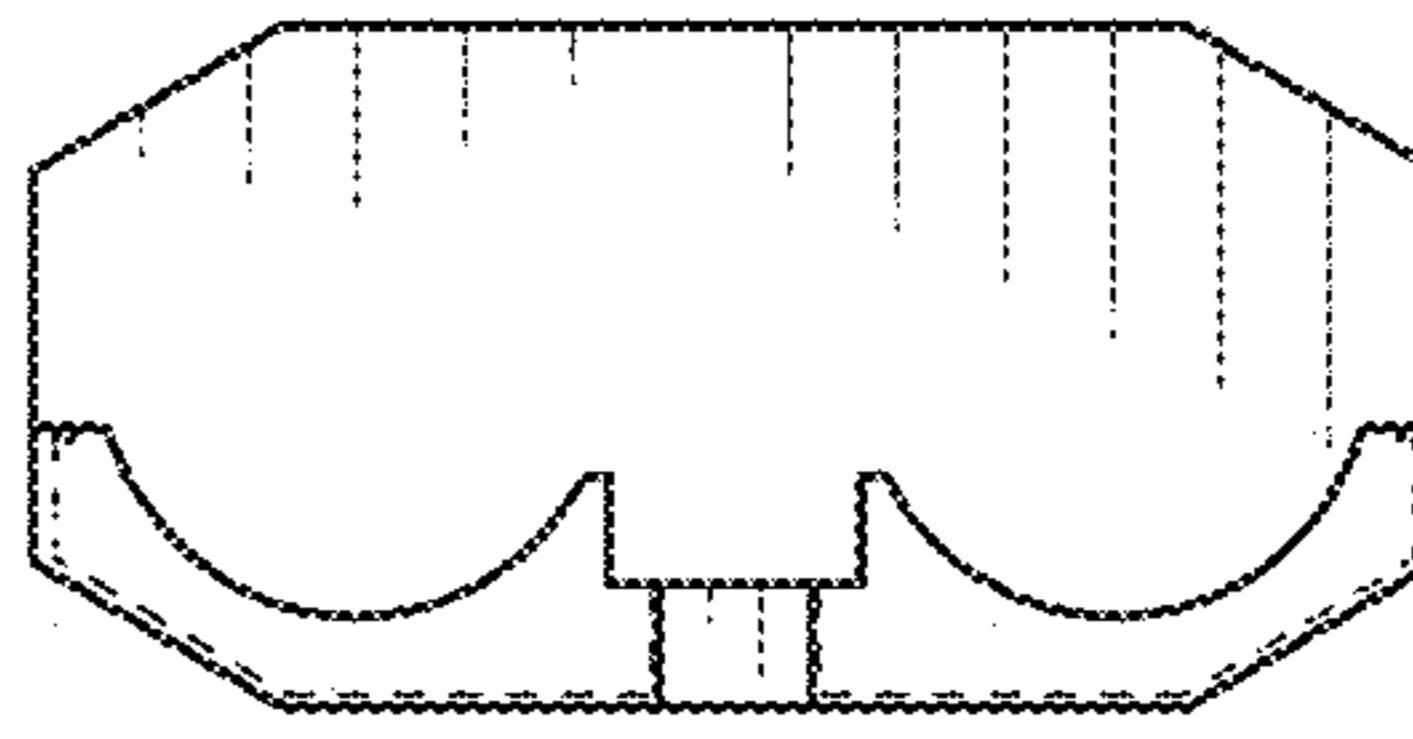


FIG. 72

**FIG. 73****FIG. 74****FIG. 75****FIG. 76**