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**

(71) Applicant: **H.P. Shelby Manufacturing Ltd.**, Chicago, IL (US)

(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.**
USPC **D21/573**

(58) **Field of Classification Search**
USPC D22/100, 103, 108, 109; D21/567, 570, D21/573

(Continued)

(56) **References Cited**

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Primary Examiner — Mojtaba Tehrani
(74) *Attorney, Agent, or Firm* — Flener IP & Business Law; Zareefa B. Flener; Ayhan E. Mertogul

(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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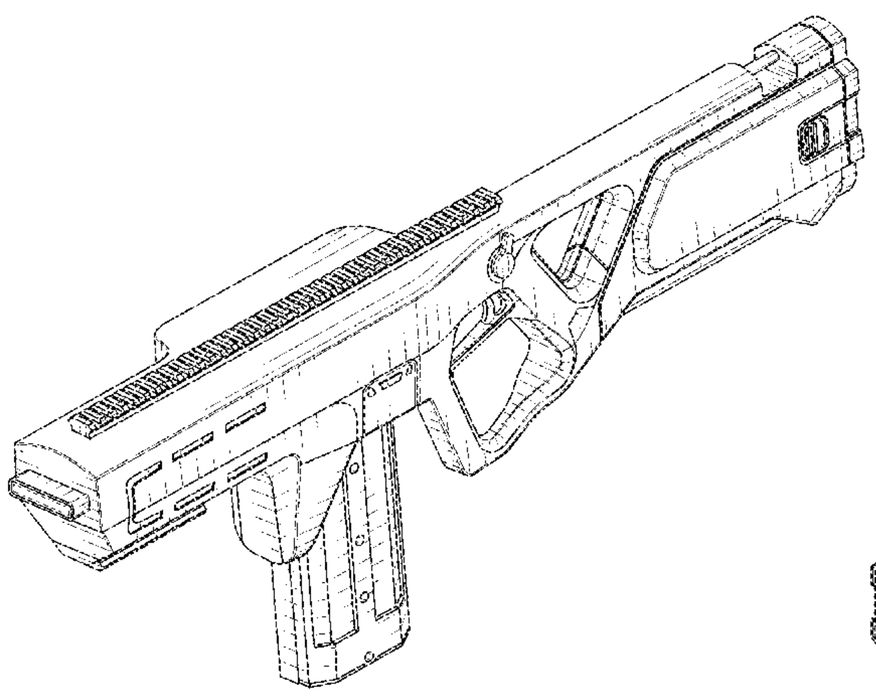

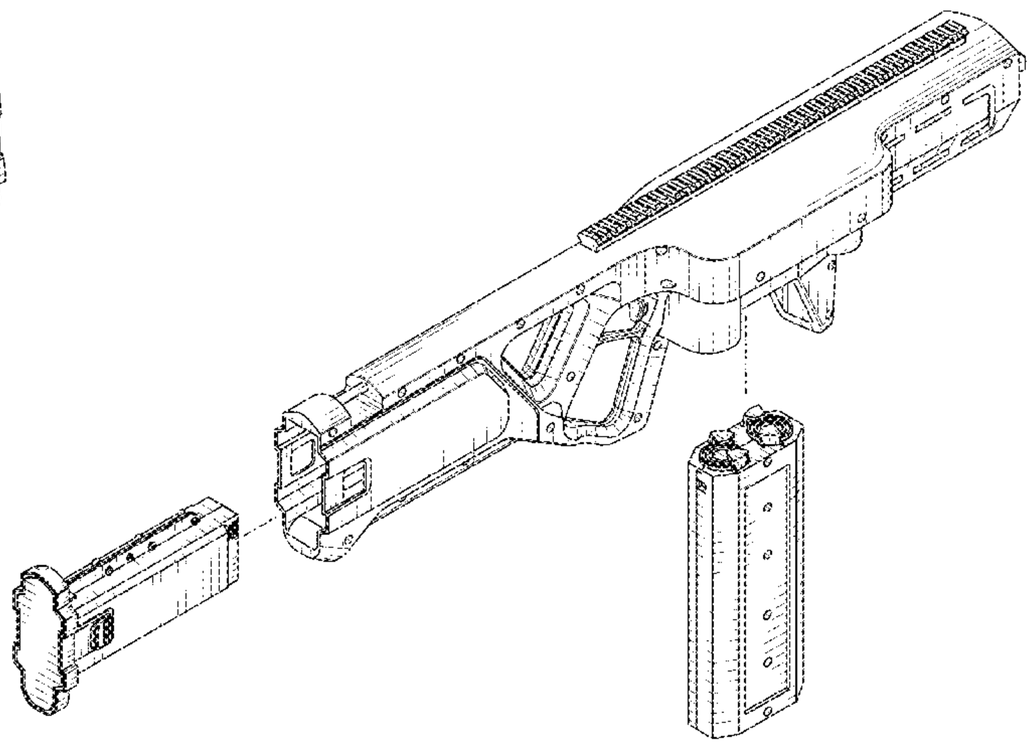

FIG. **24** is a top plan view of the battery component of FIG. **8**;
FIG. **25** is a front perspective view of the magazine component of FIG. **8** in a first configuration;
FIG. **26** is a left side view of the magazine component of FIG. **8** in a first configuration;
FIG. **27** is a right side 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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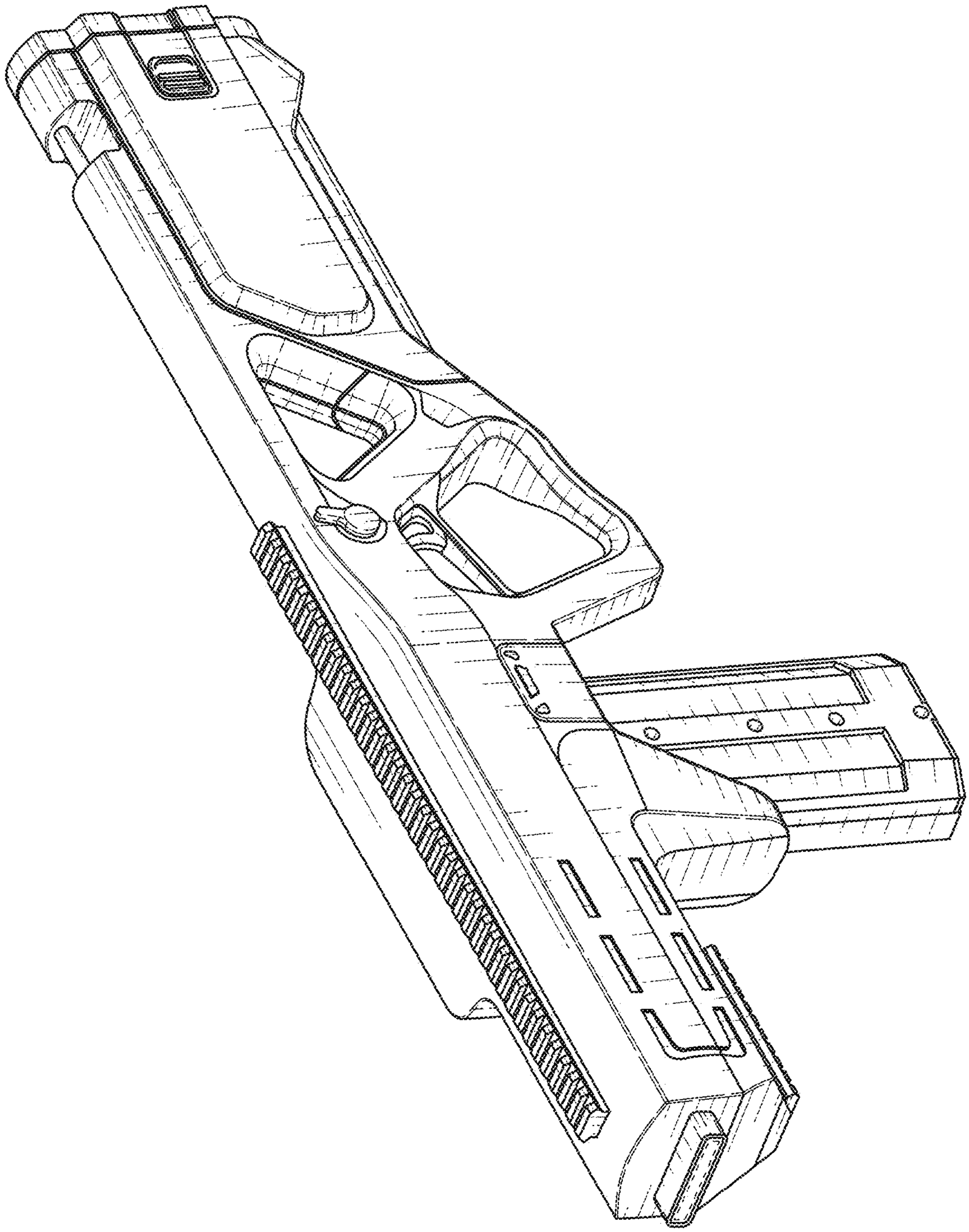


FIG. 1

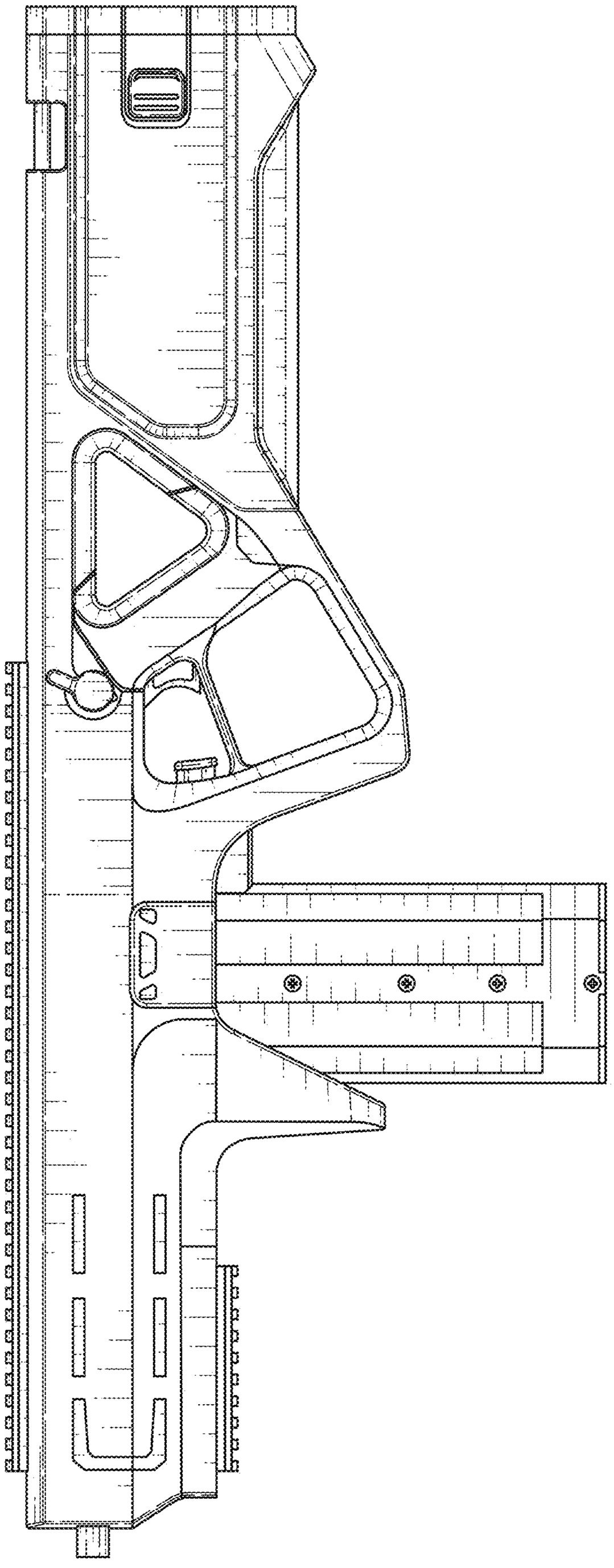


FIG. 2

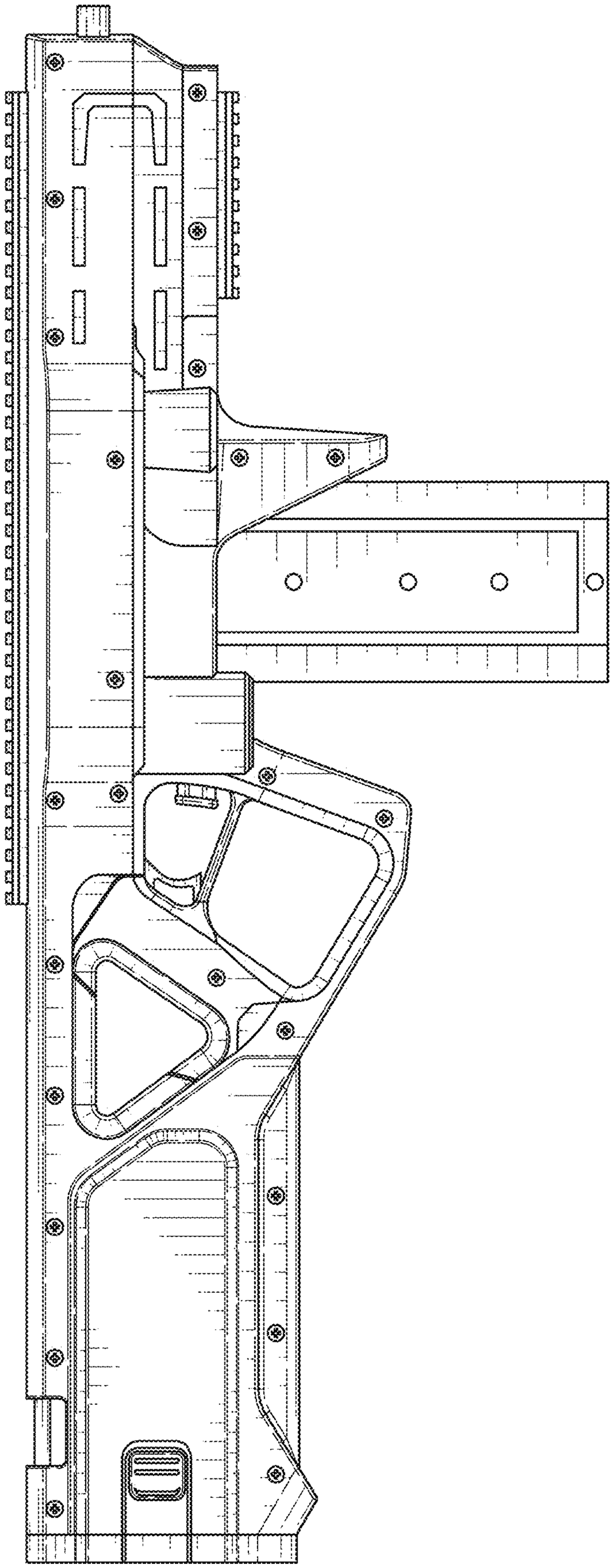


FIG. 3

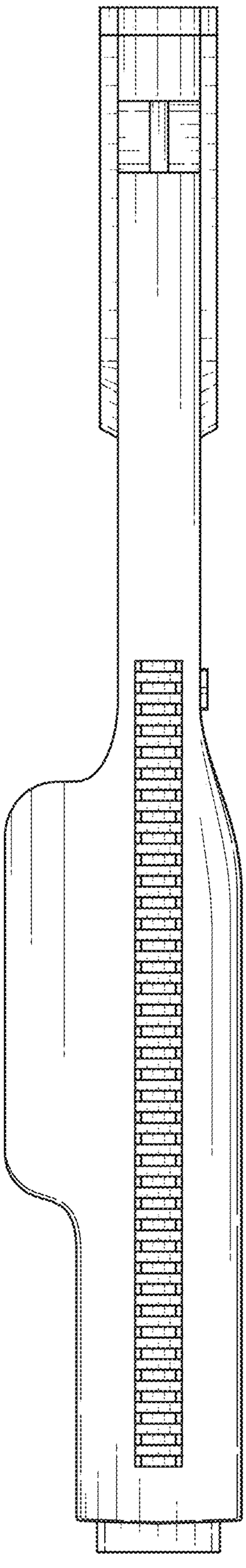


FIG. 4

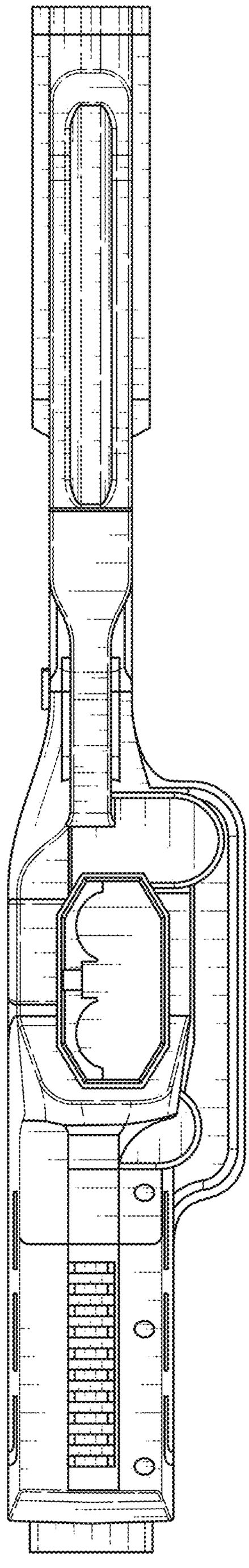


FIG. 5

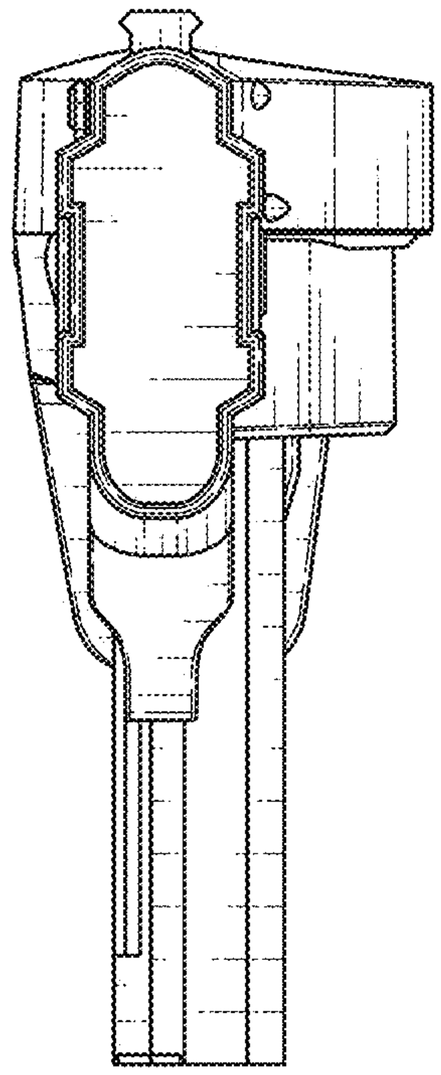


FIG. 6

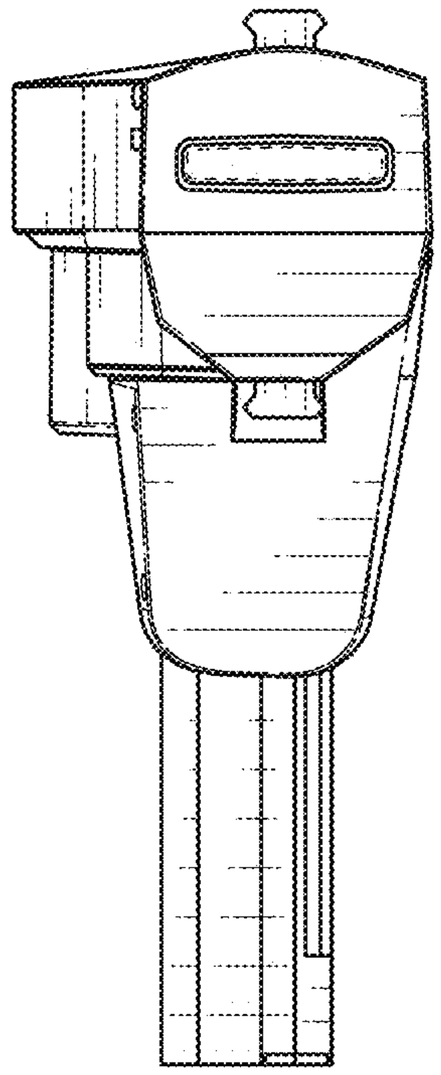


FIG. 7

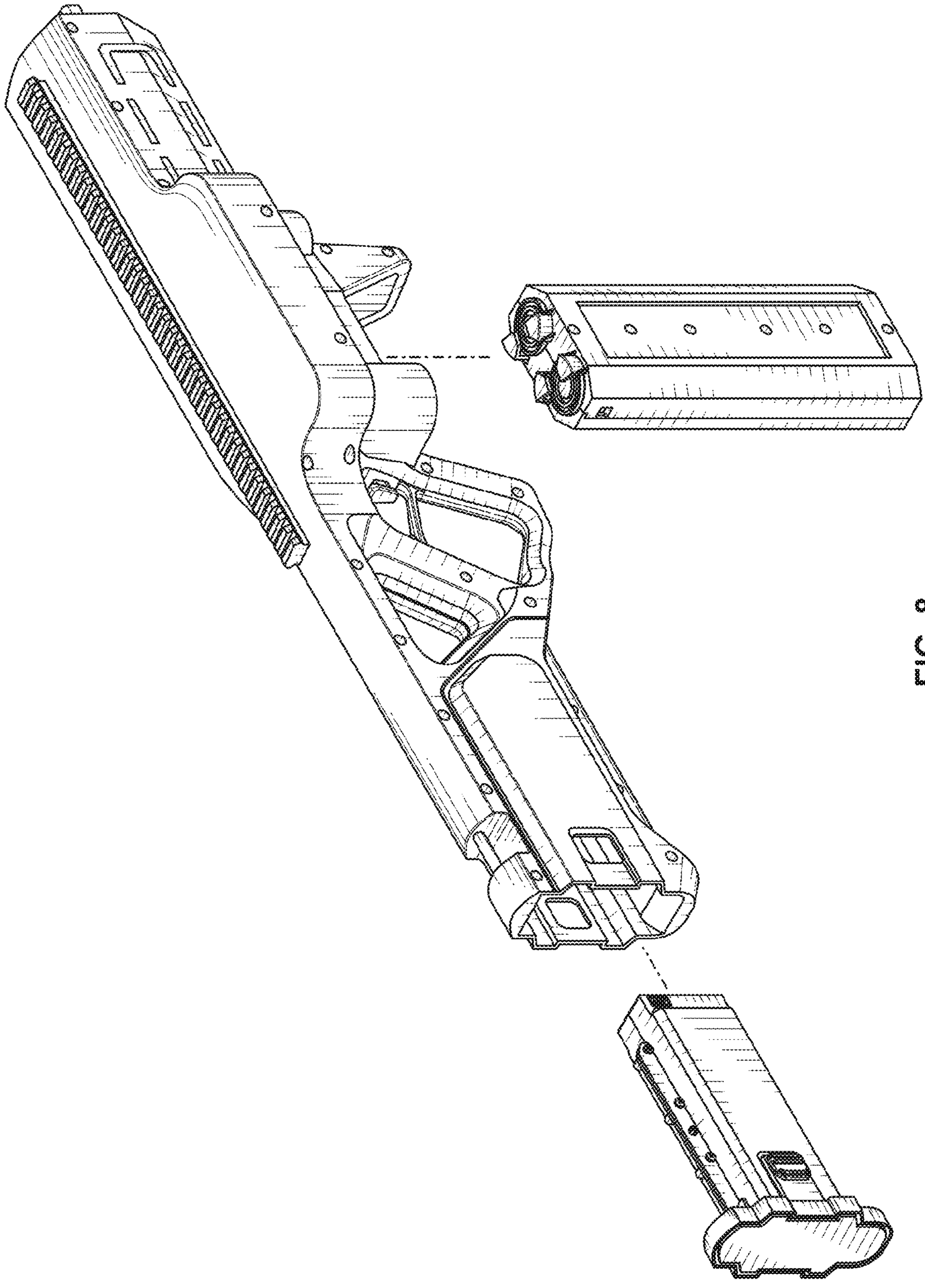


FIG. 8

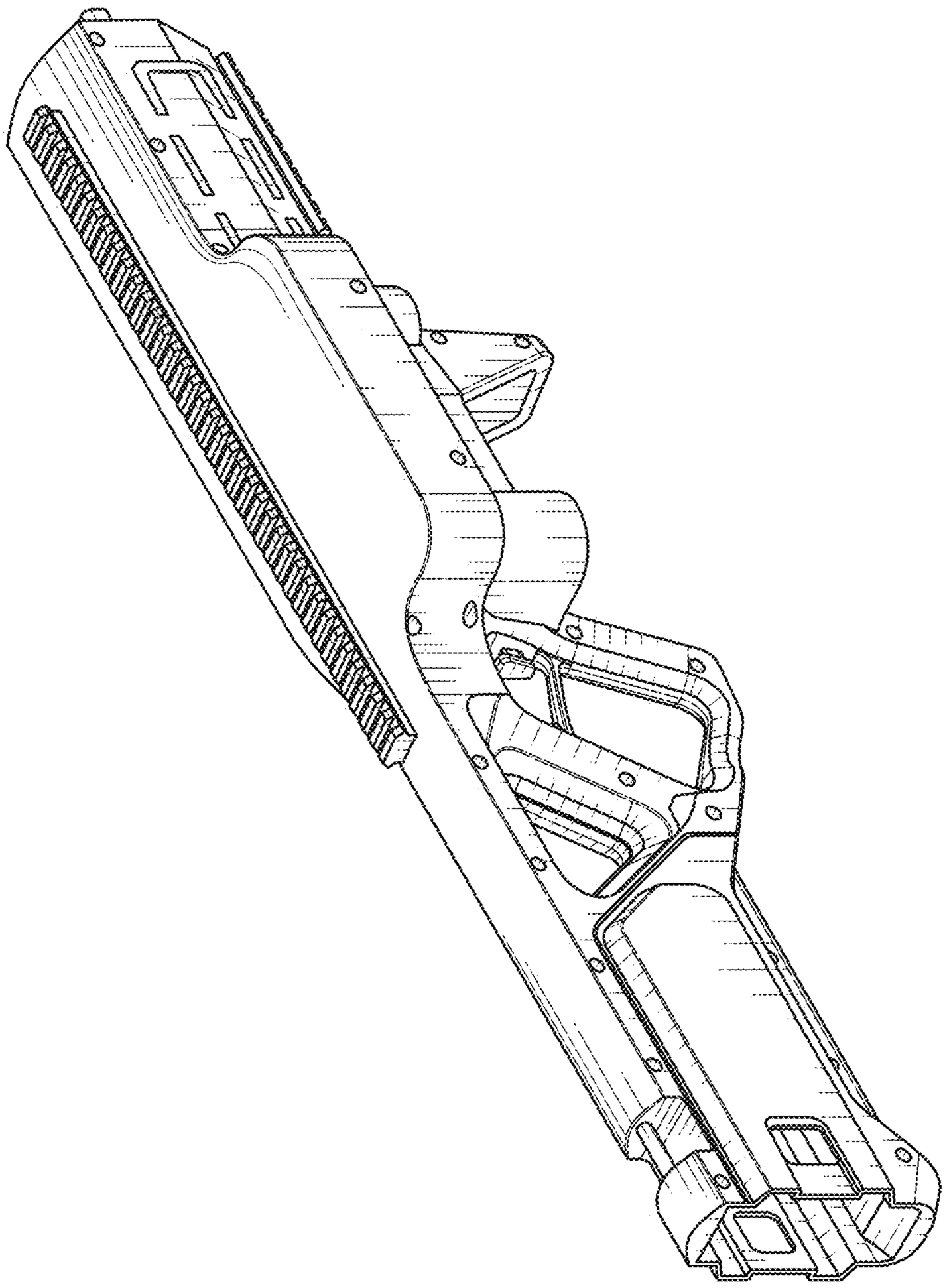


FIG. 9

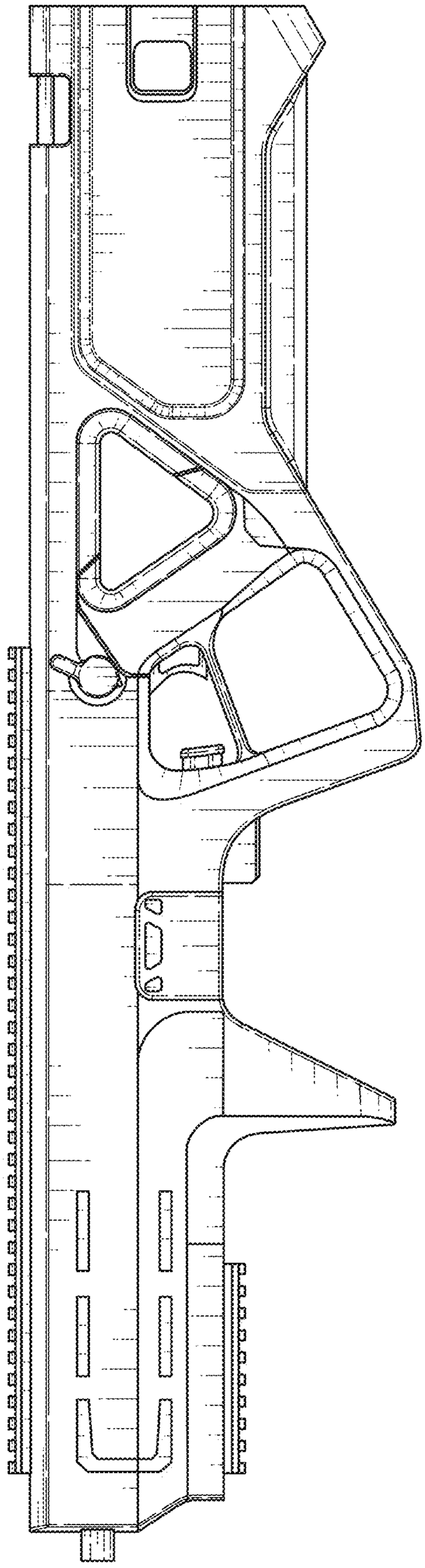
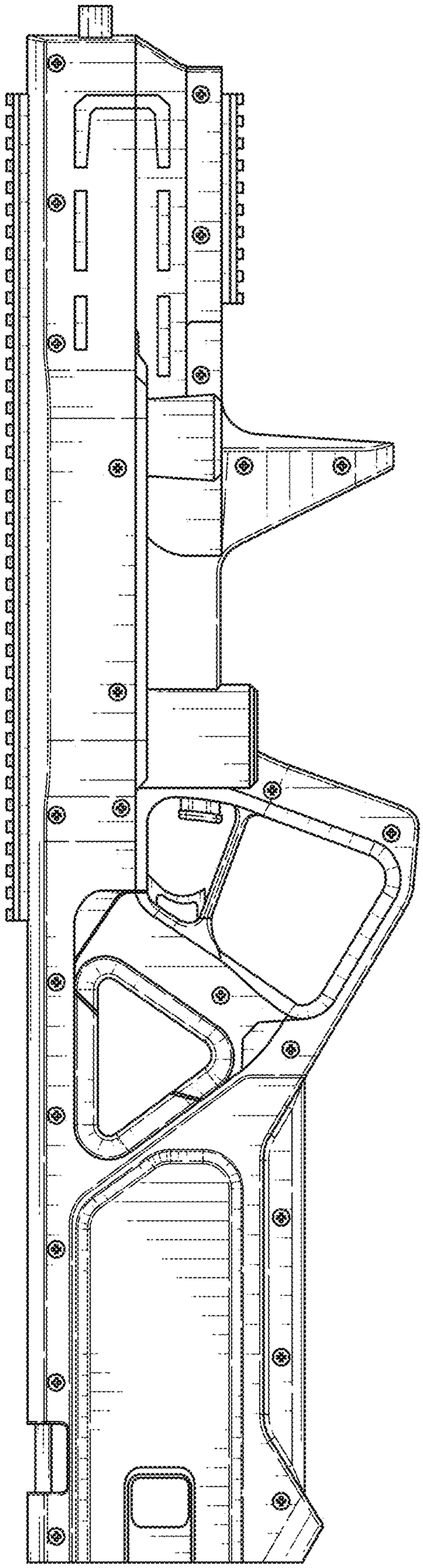


FIG. 10



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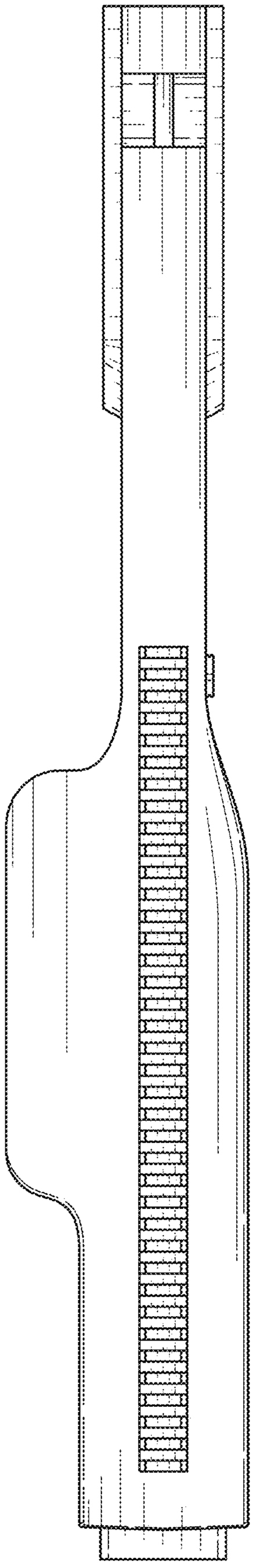


FIG. 12

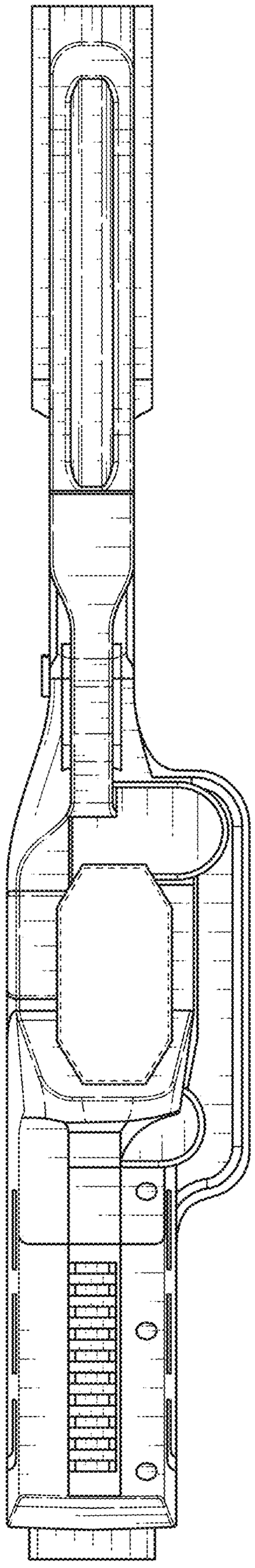


FIG. 13

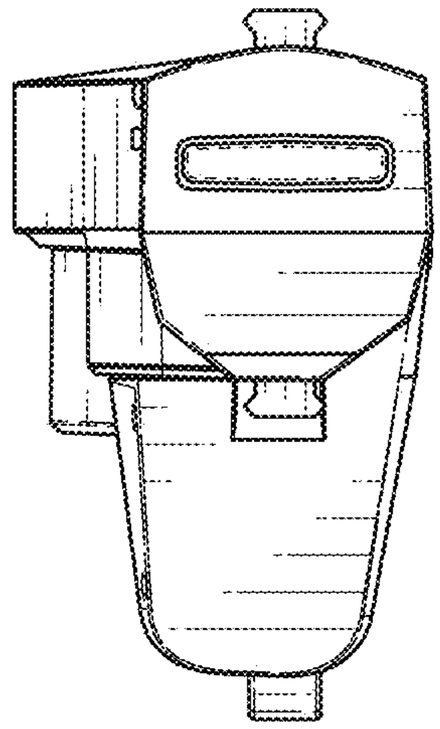


FIG. 14

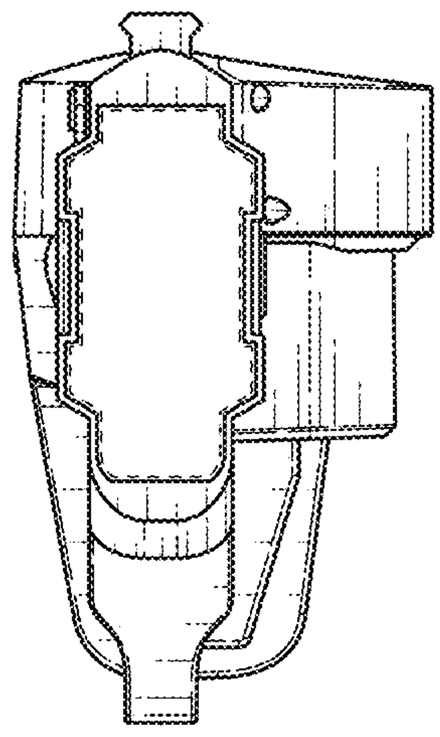


FIG. 15

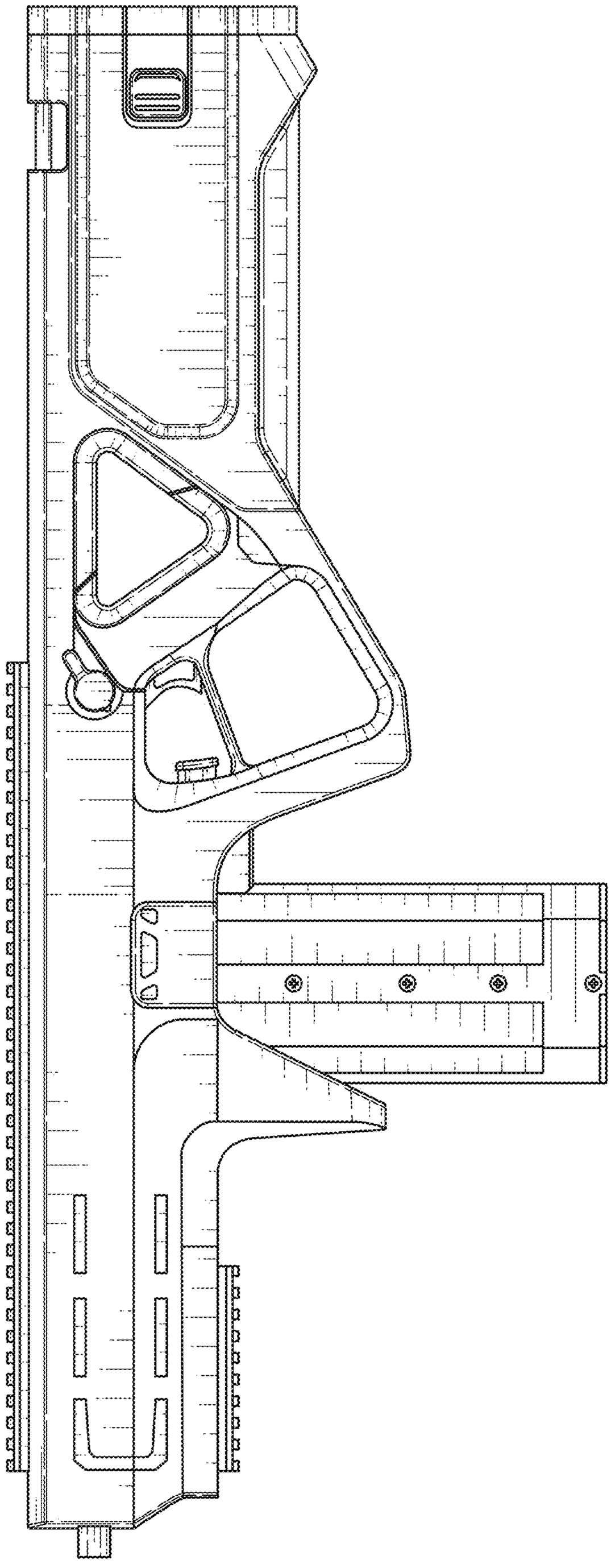


FIG. 16

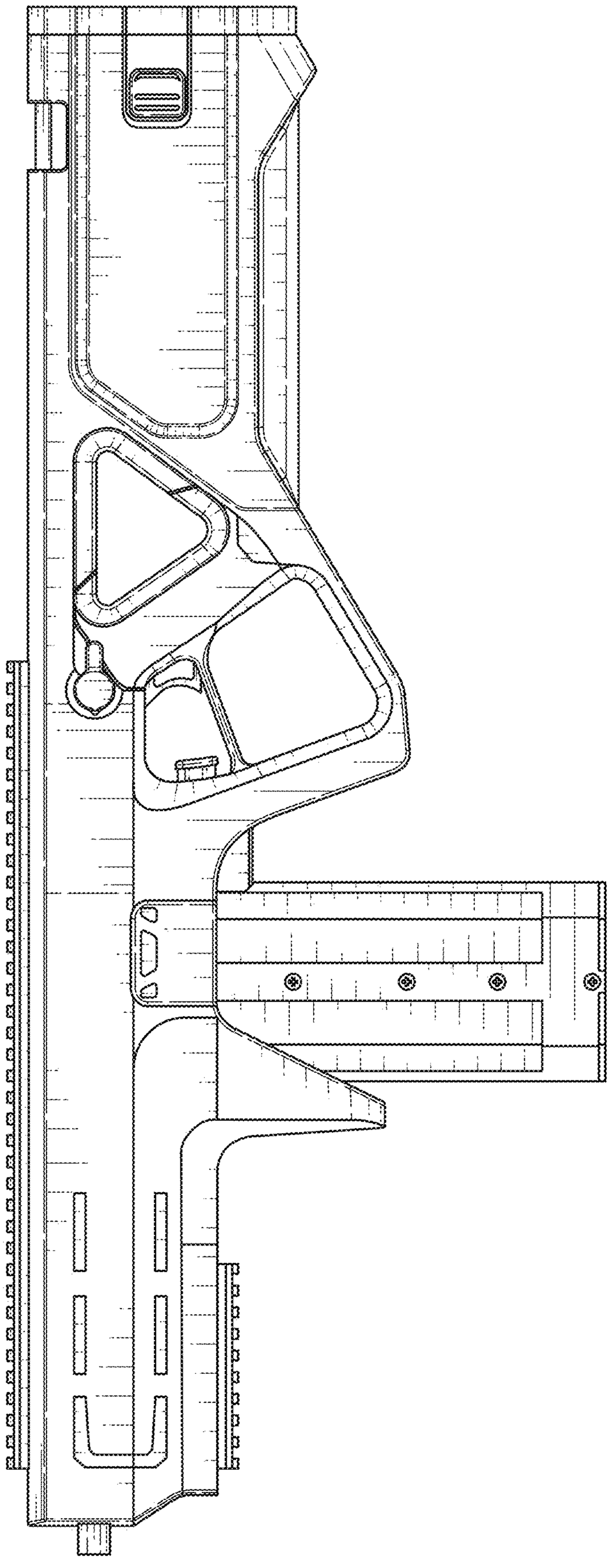


FIG. 17

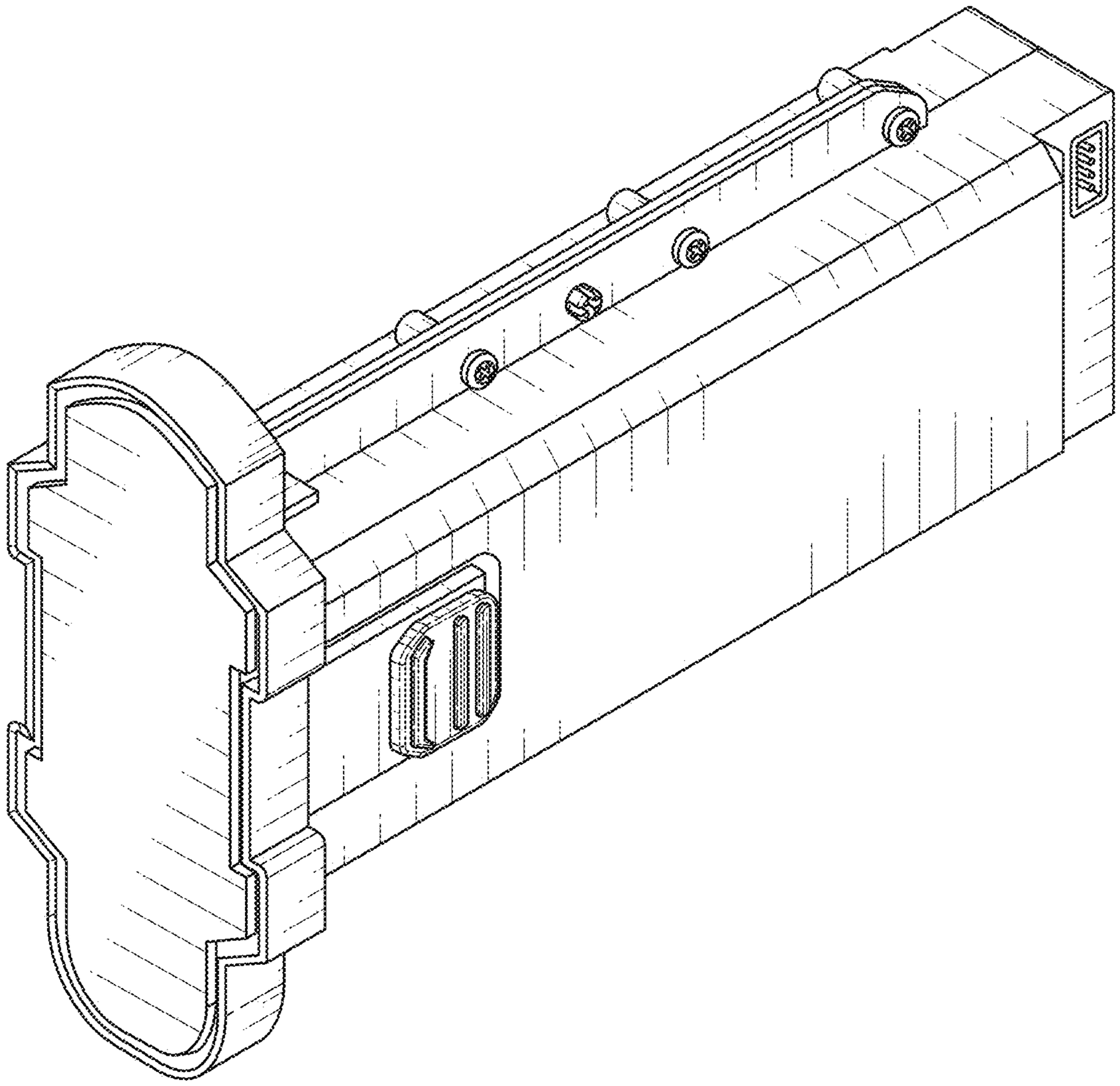


FIG. 18

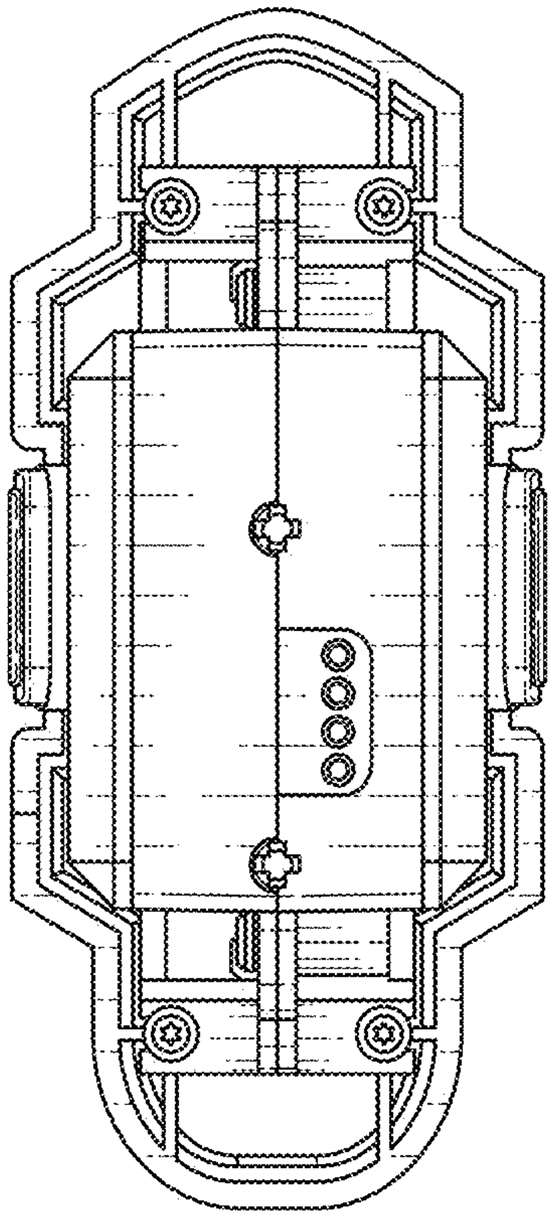


FIG. 19

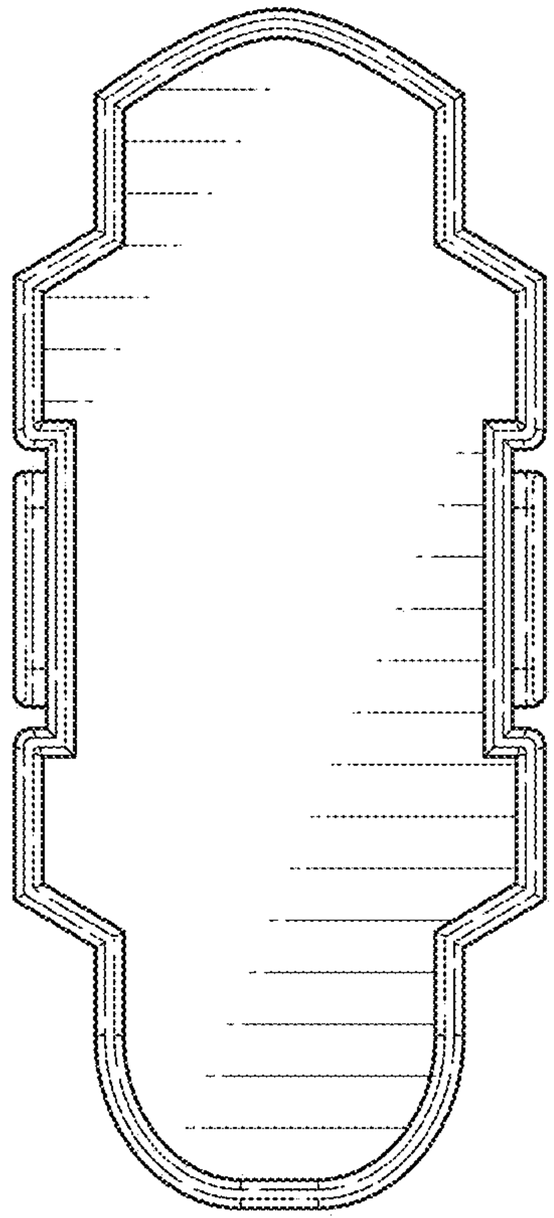


FIG. 20

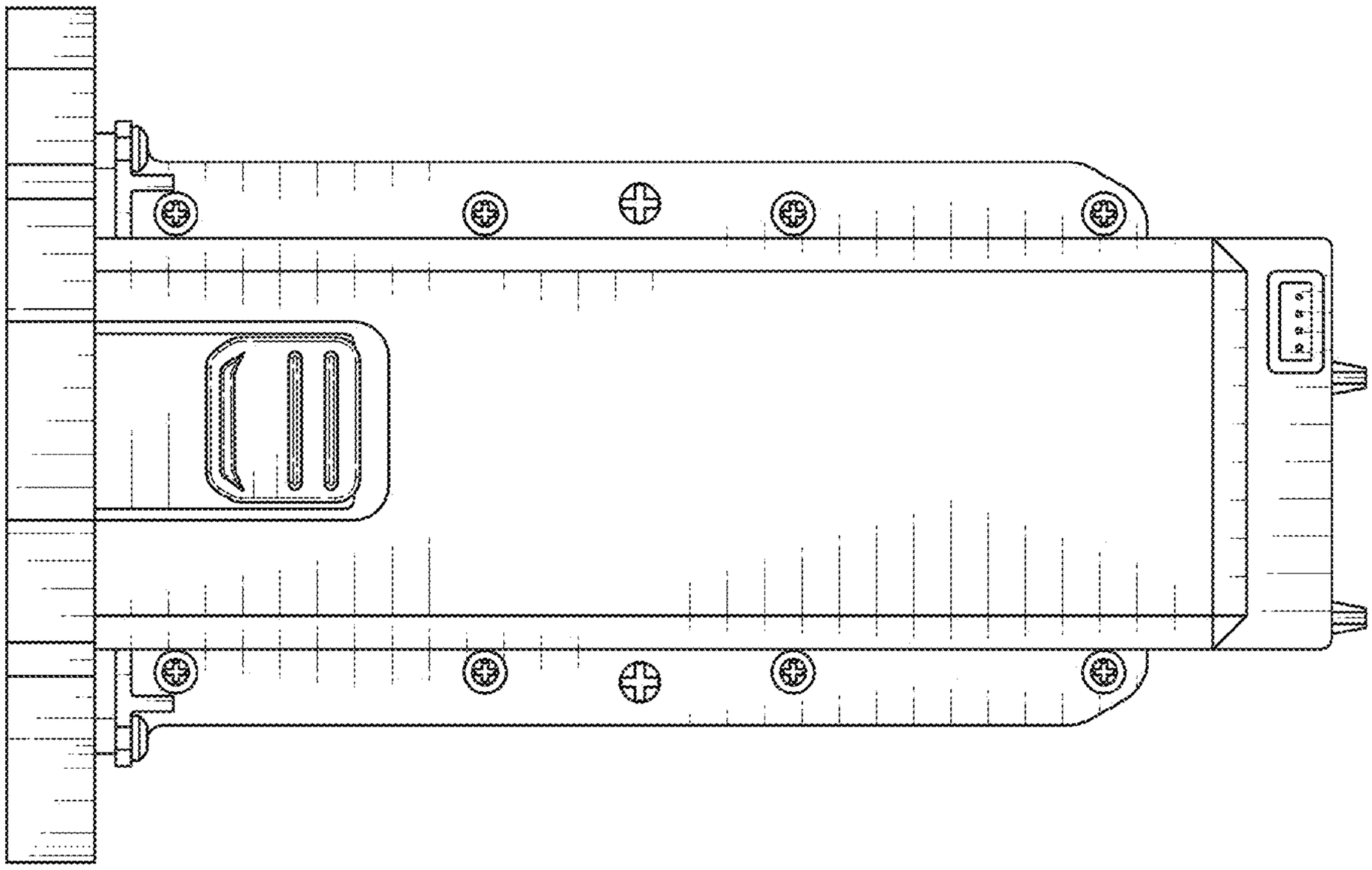


FIG. 21

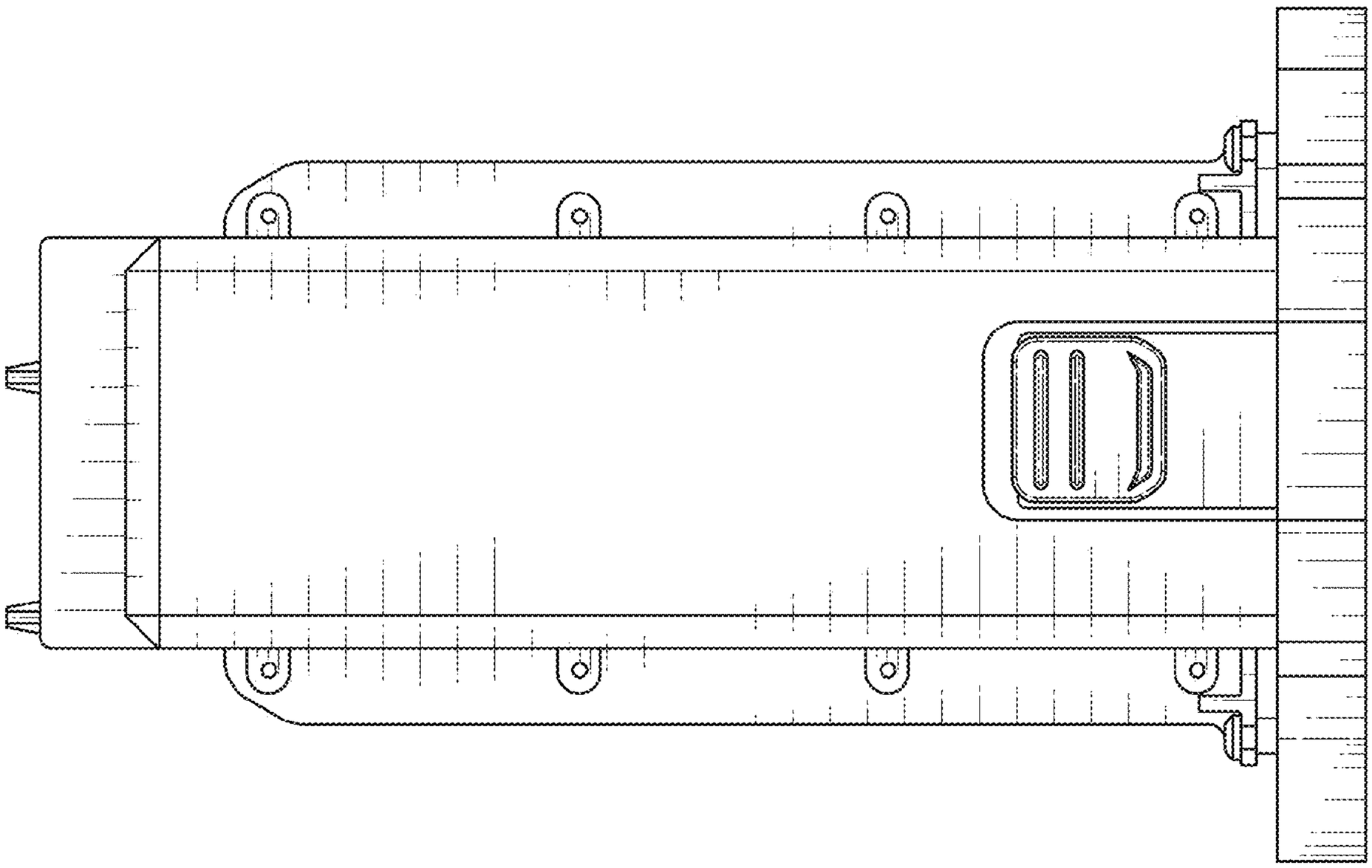


FIG. 22

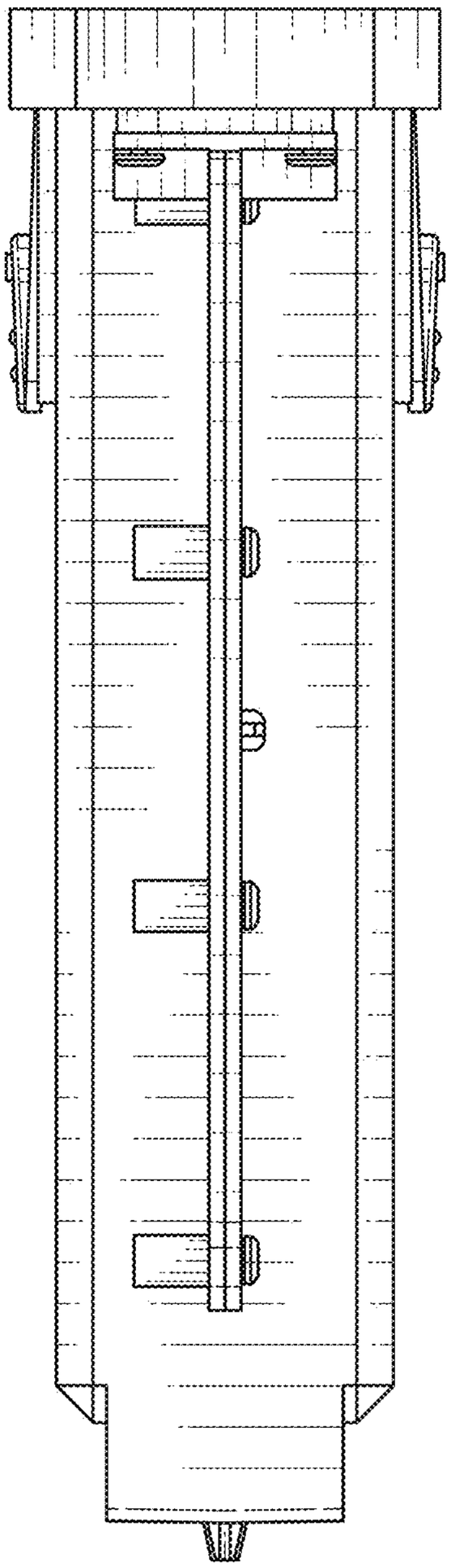


FIG. 23

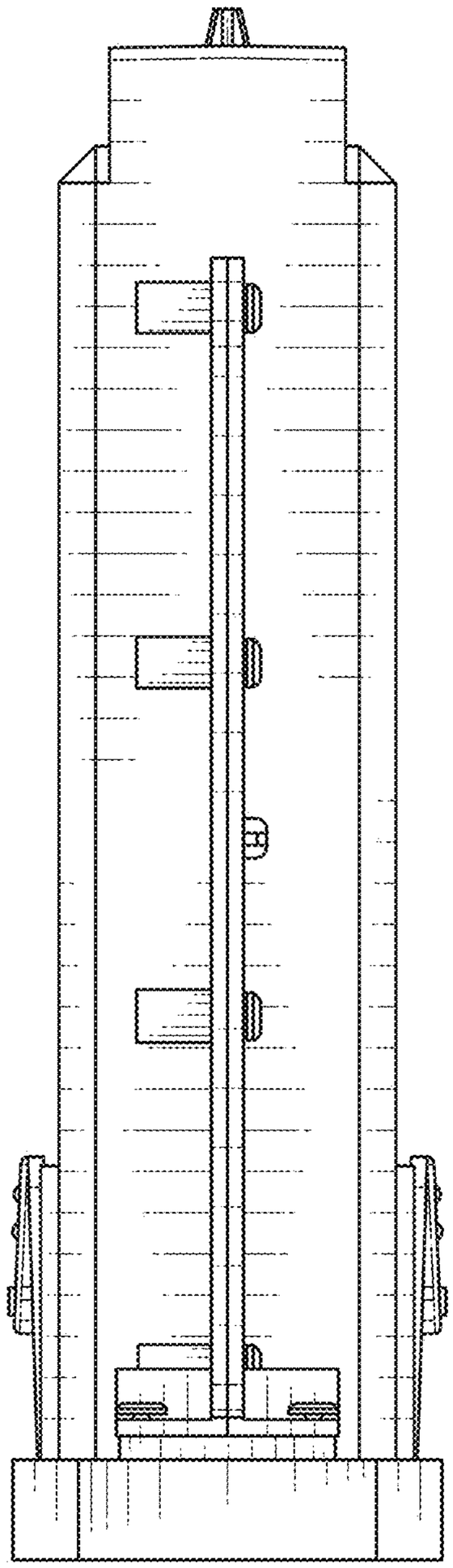


FIG. 24

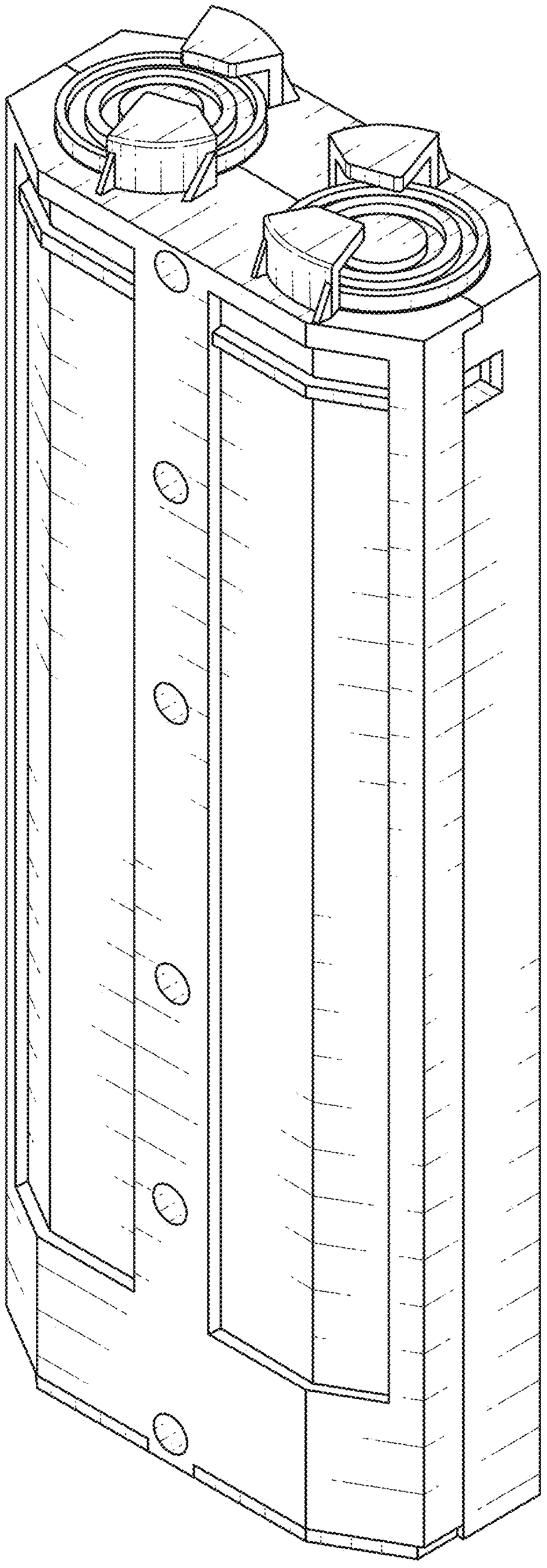


FIG. 25

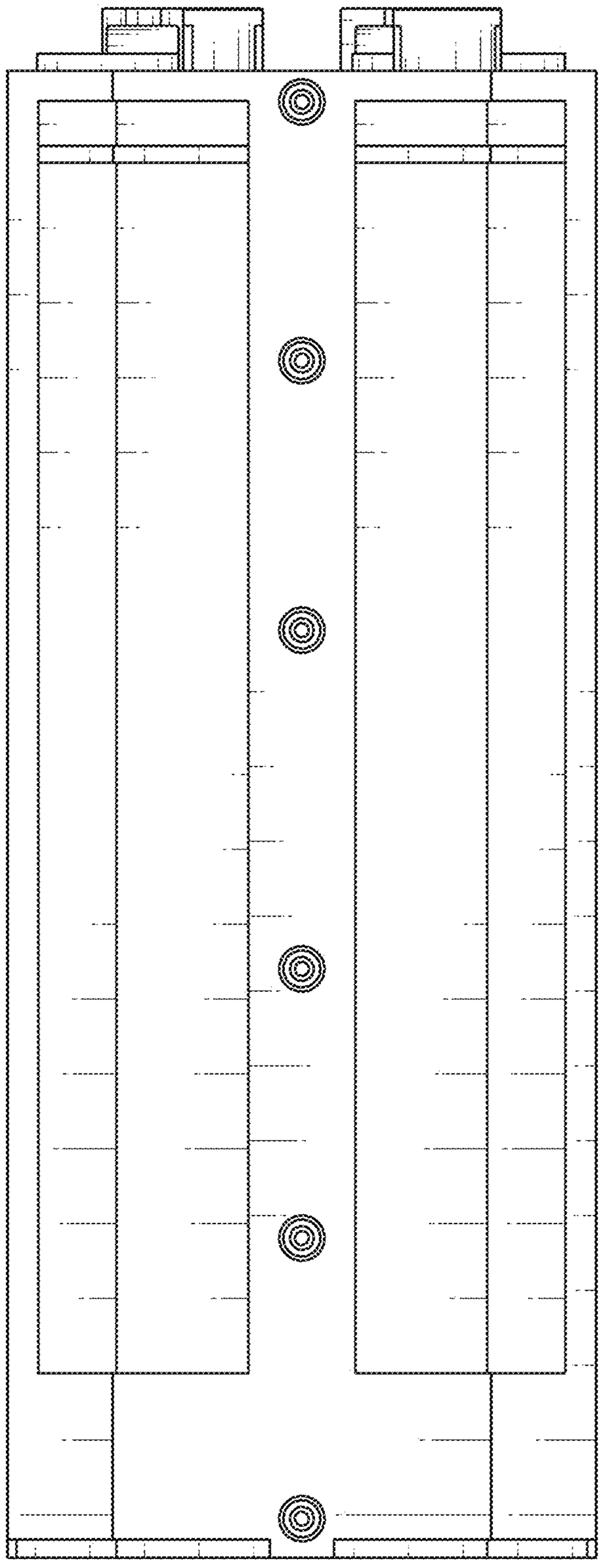


FIG. 26

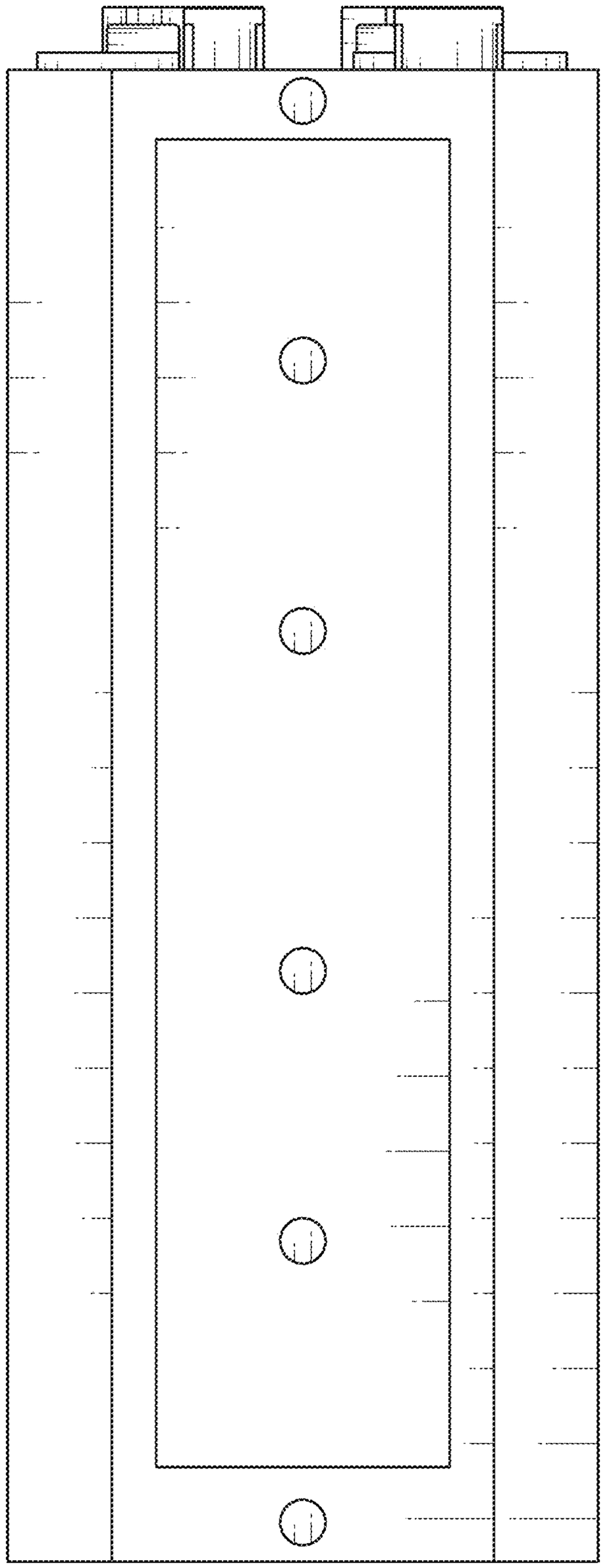


FIG. 27

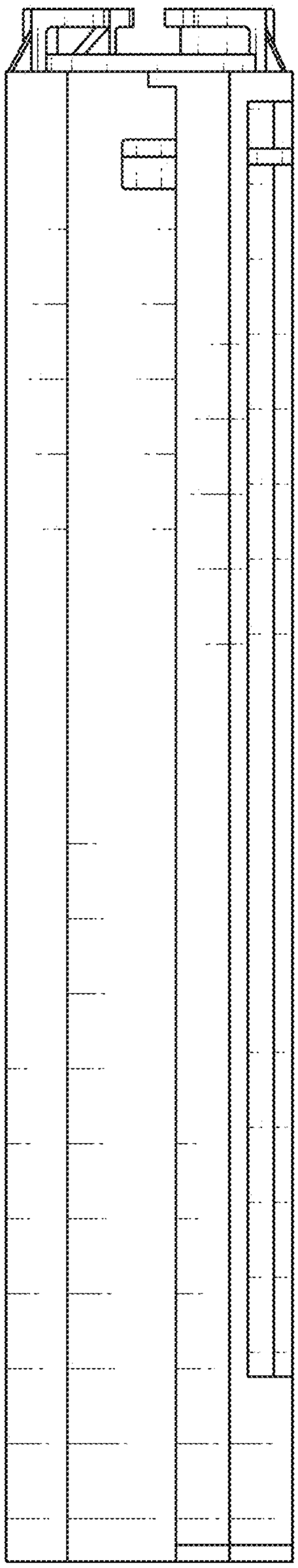
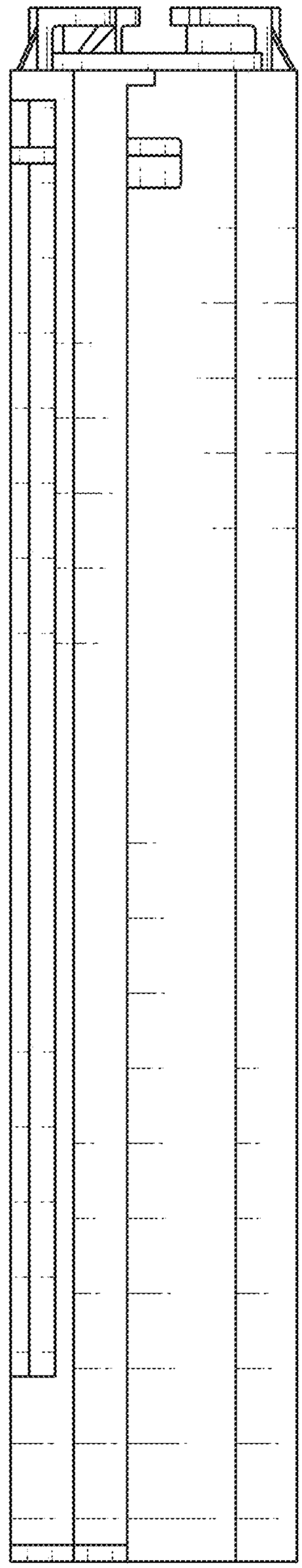


FIG. 28



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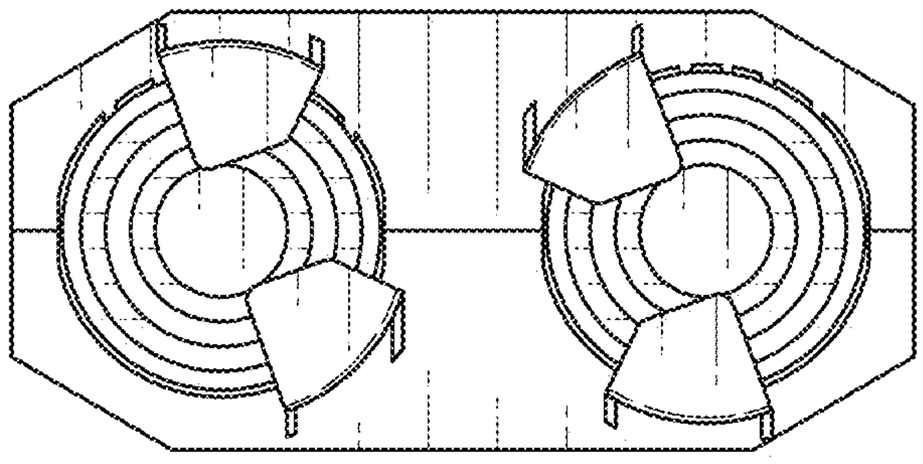


FIG. 30

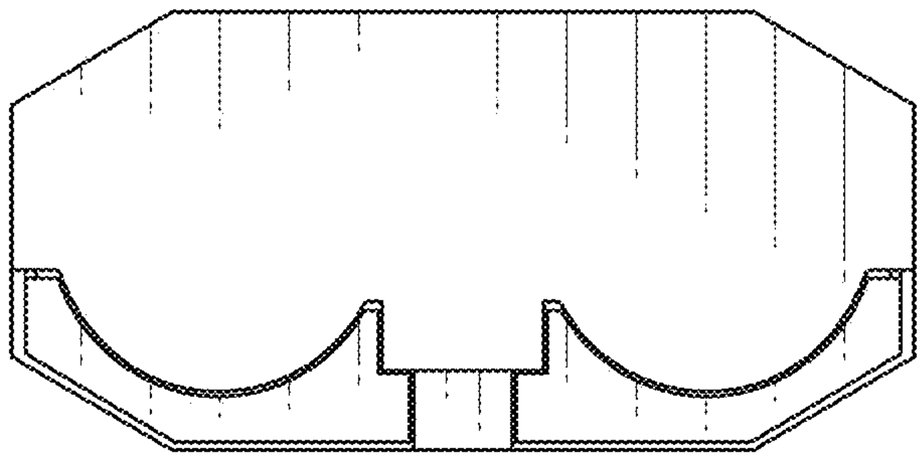


FIG. 31

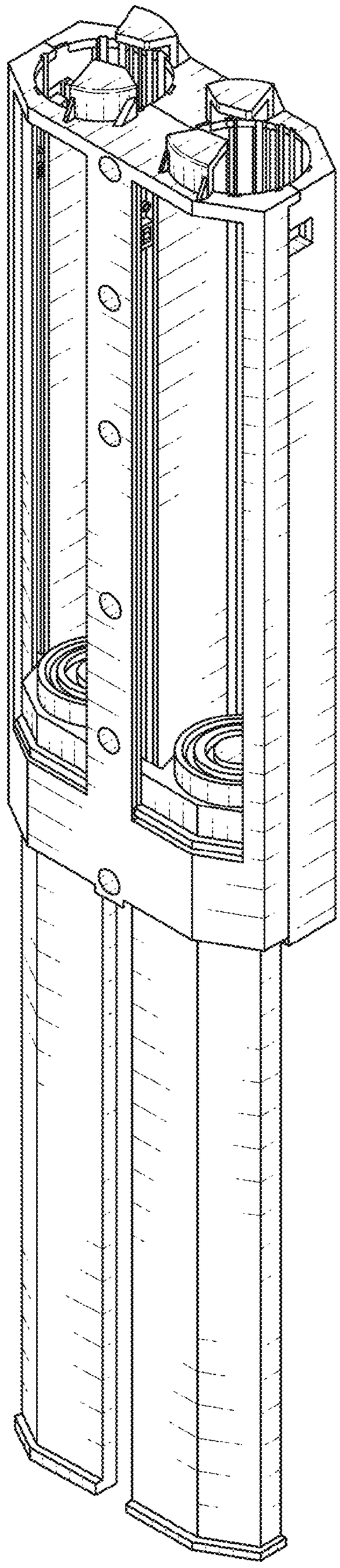
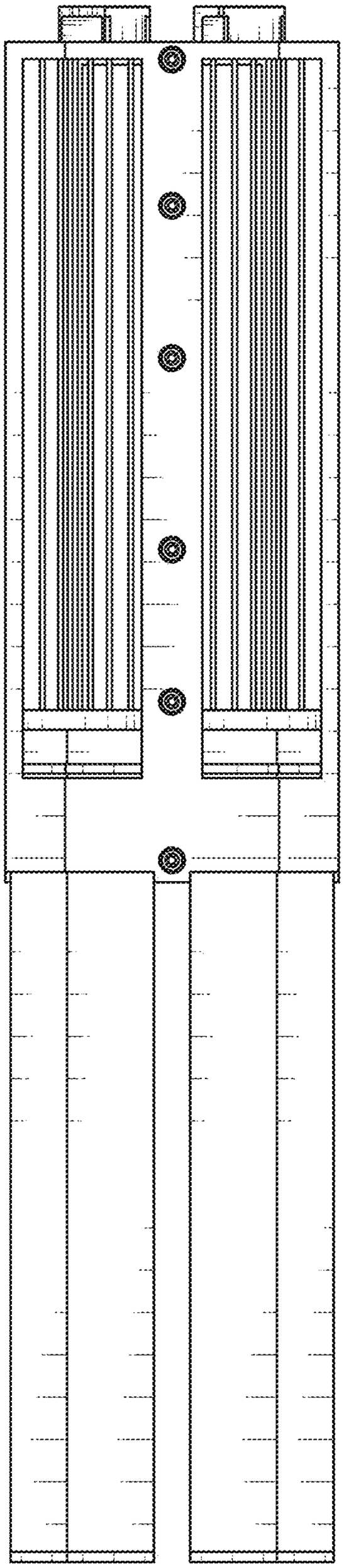


FIG. 32



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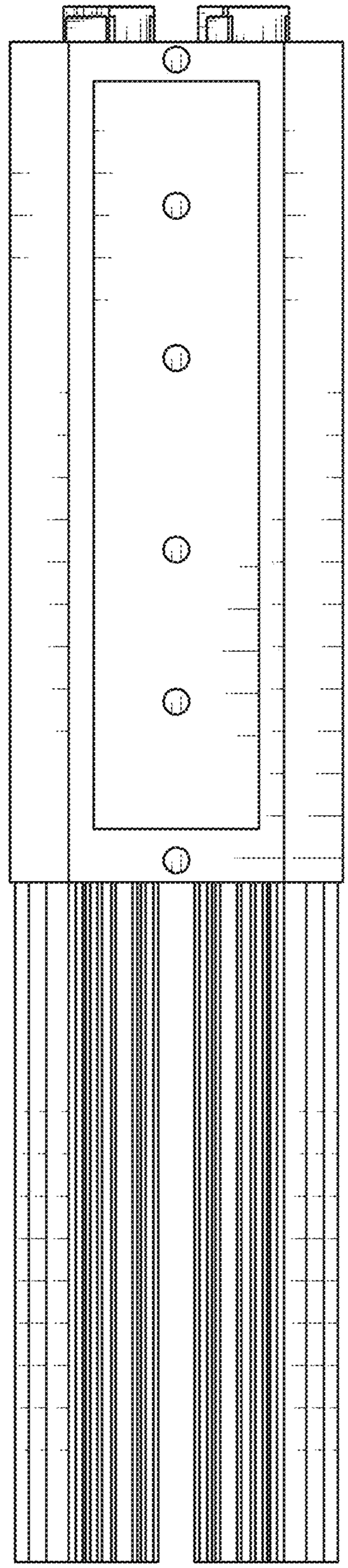

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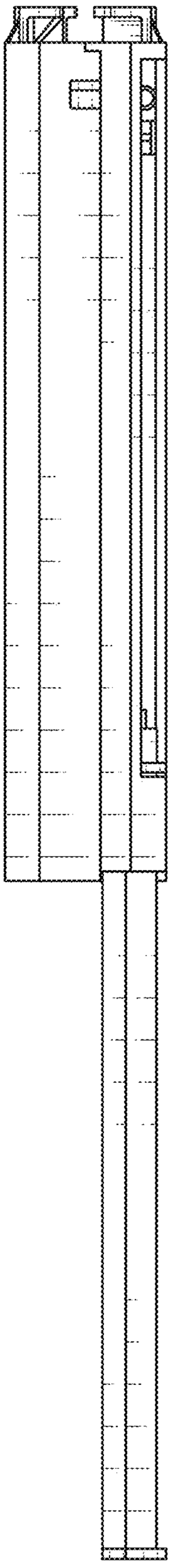

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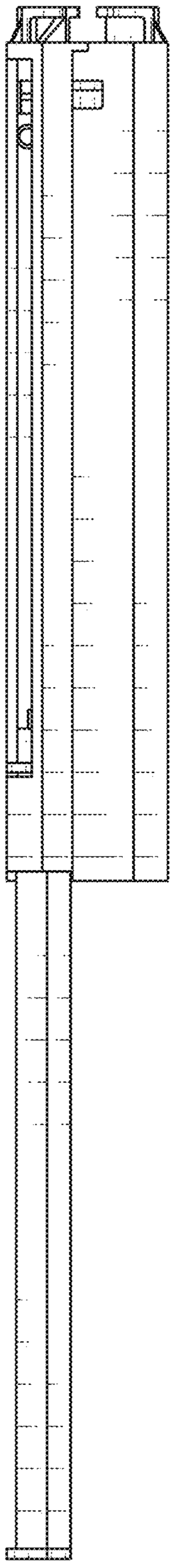

FIG. 36

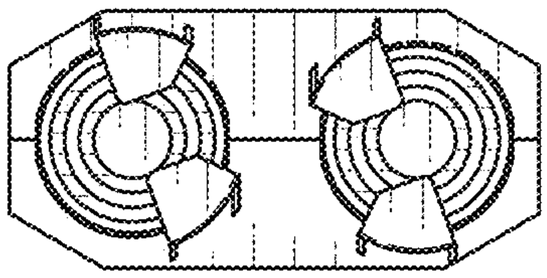

FIG. 37

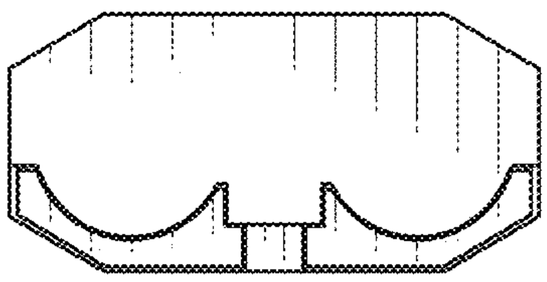

FIG. 38

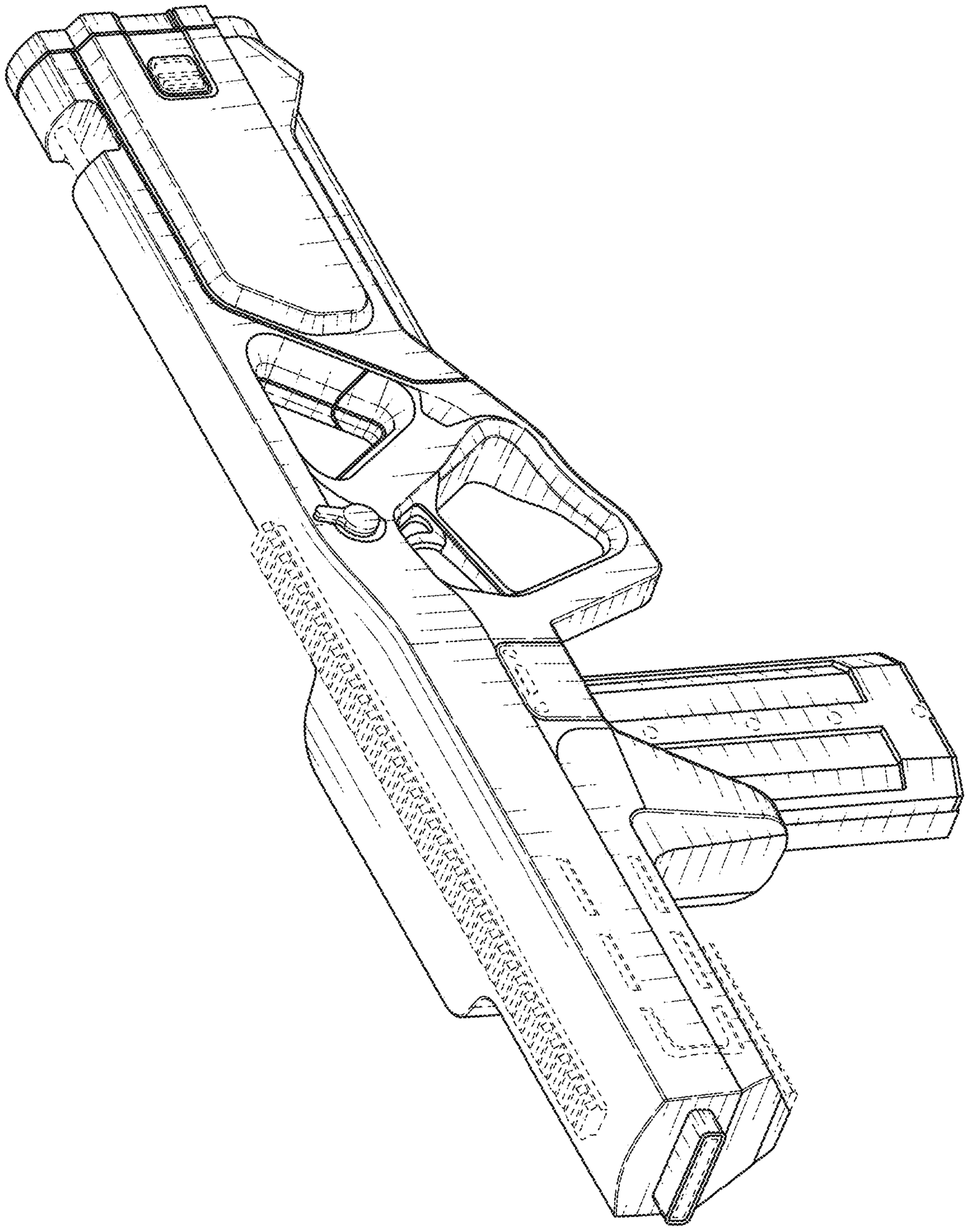

FIG. 39

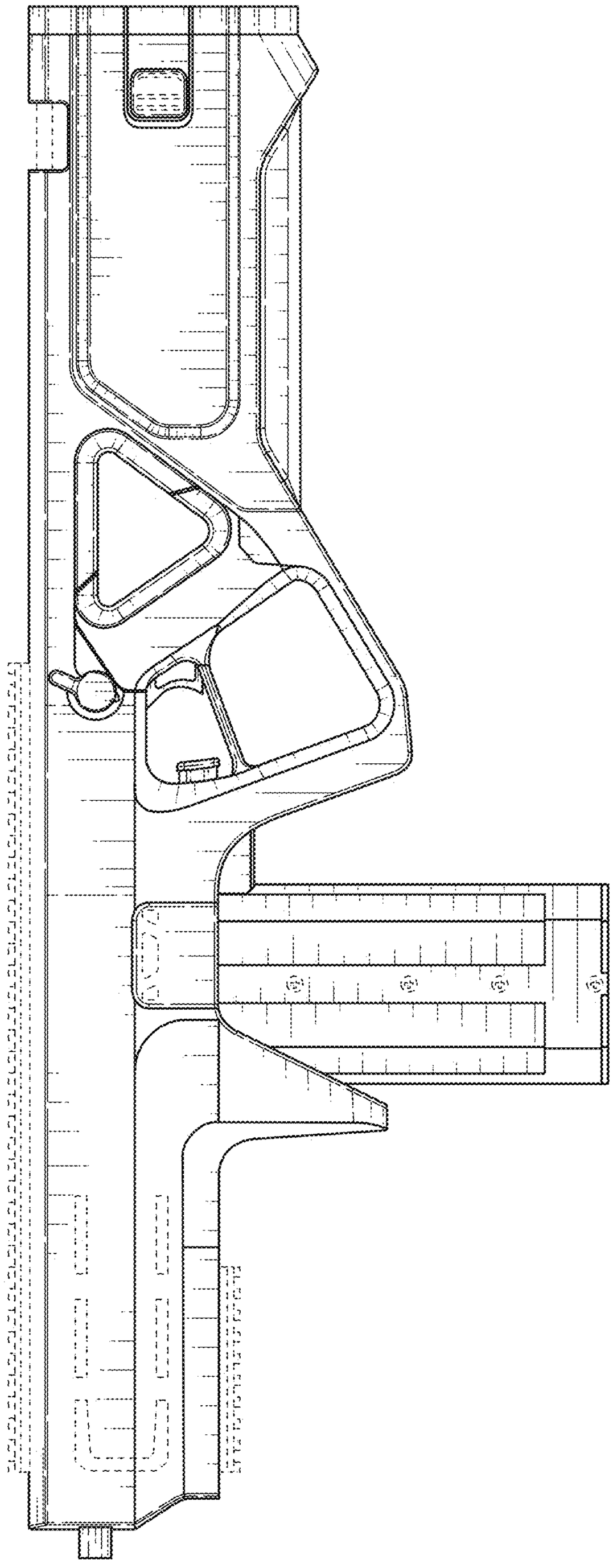

FIG. 40

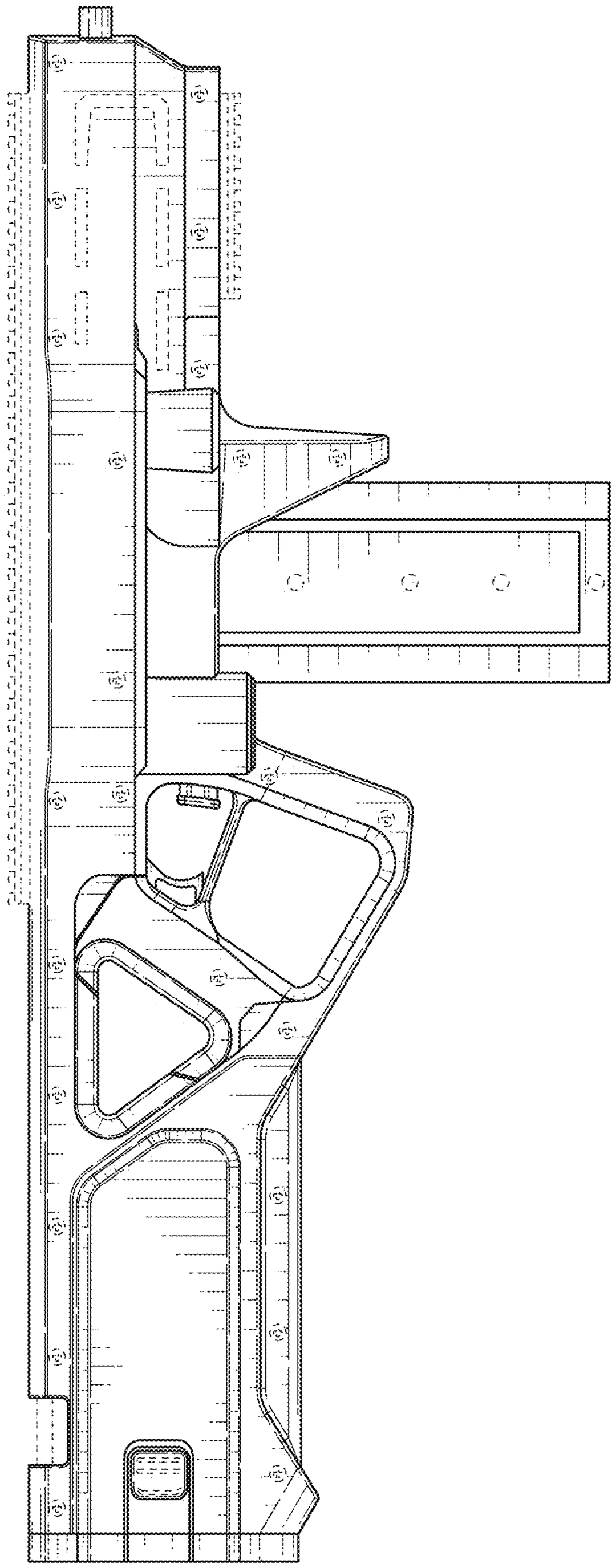

FIG. 41

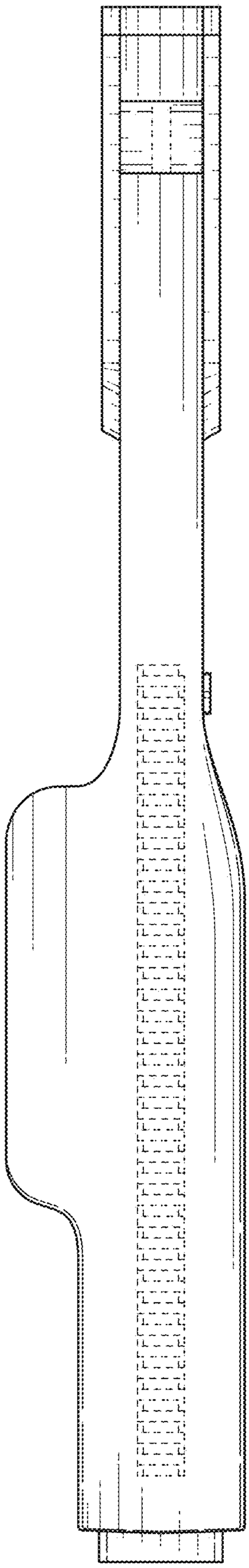

FIG. 42

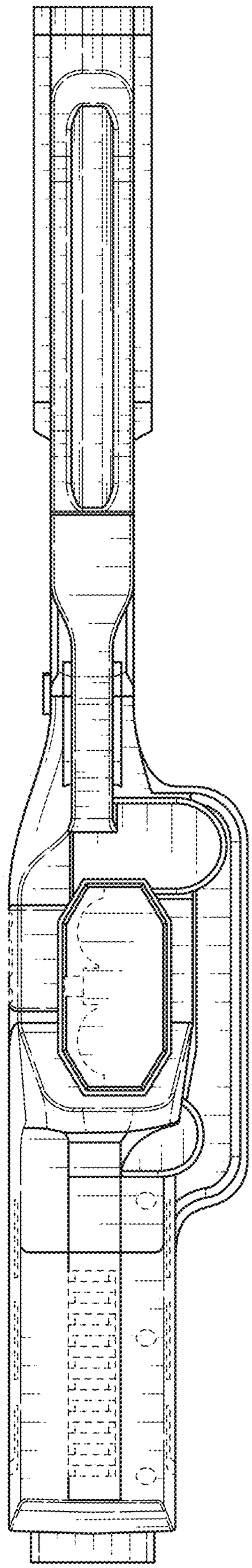

FIG. 43

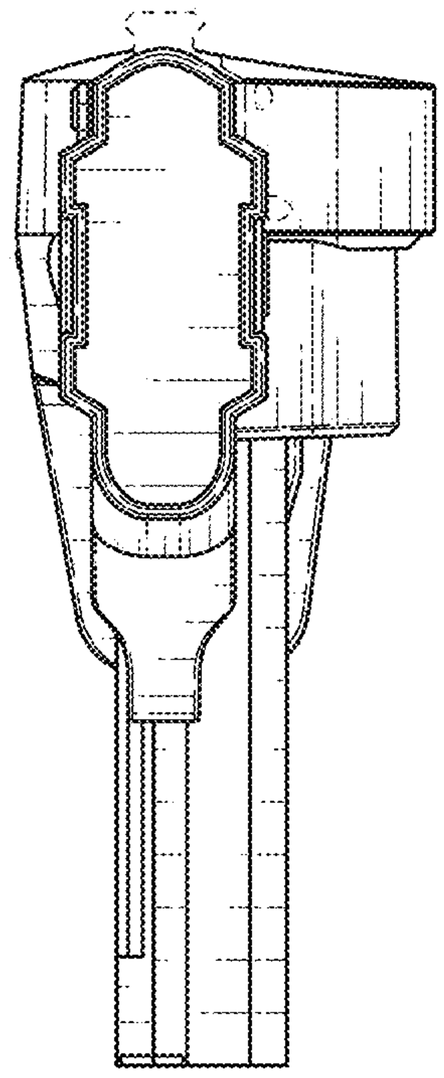

FIG. 44

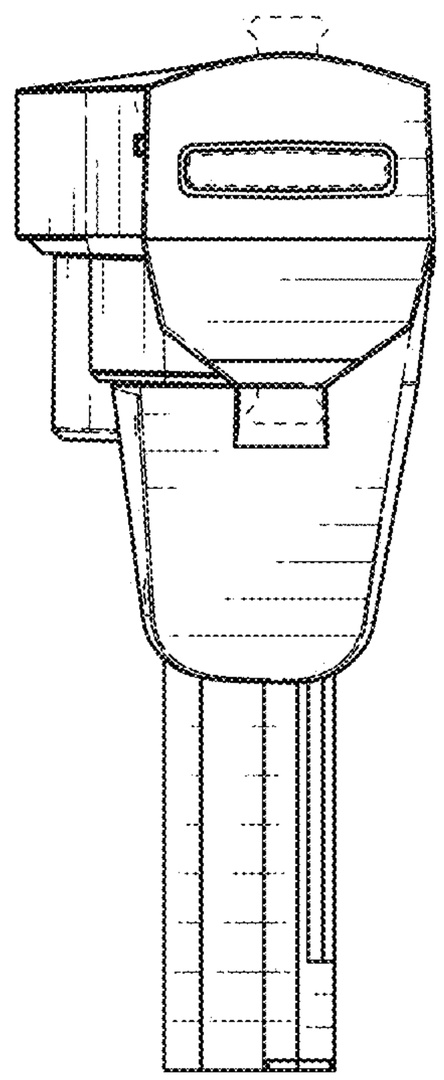

FIG. 45

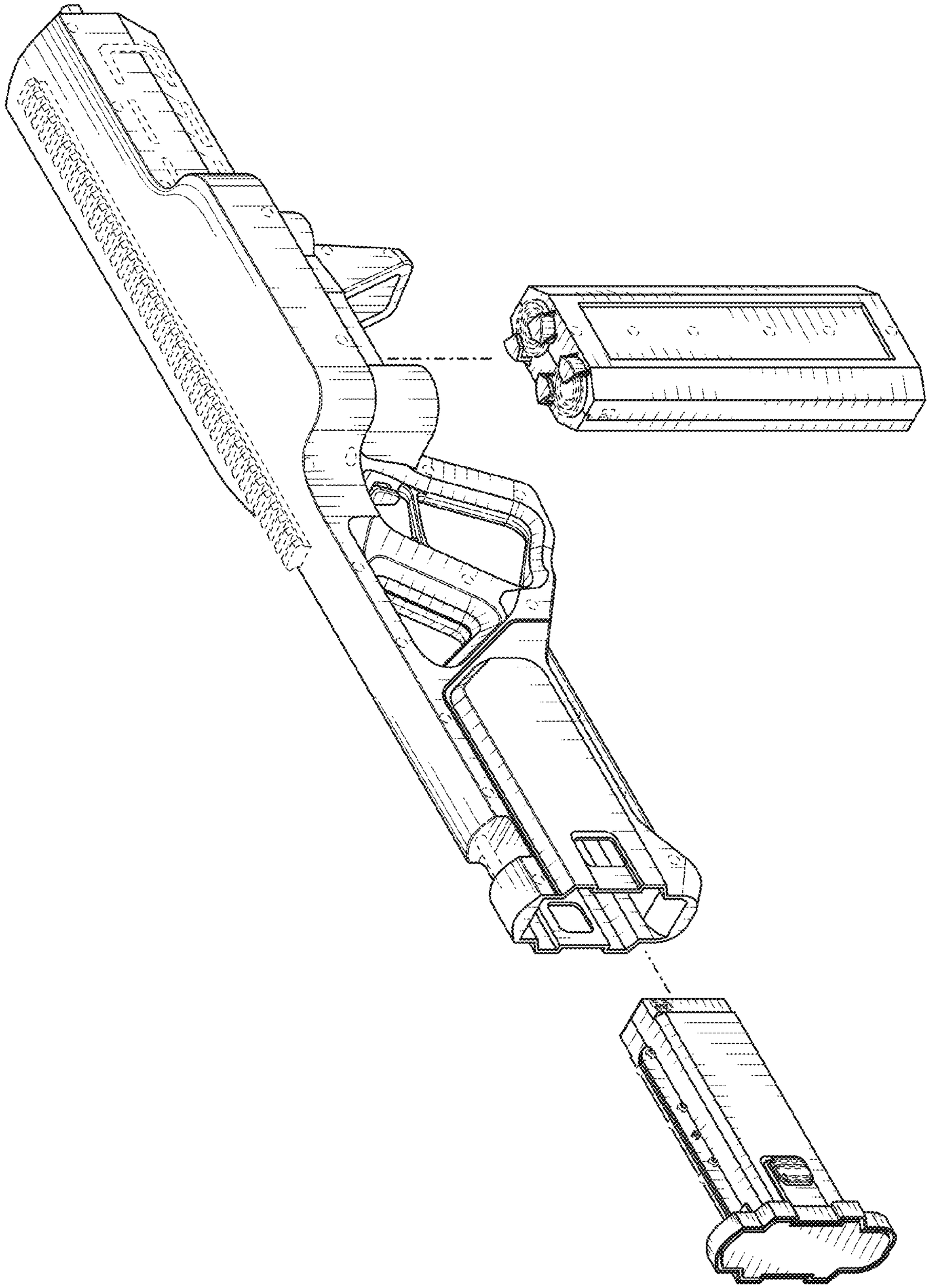

FIG. 46

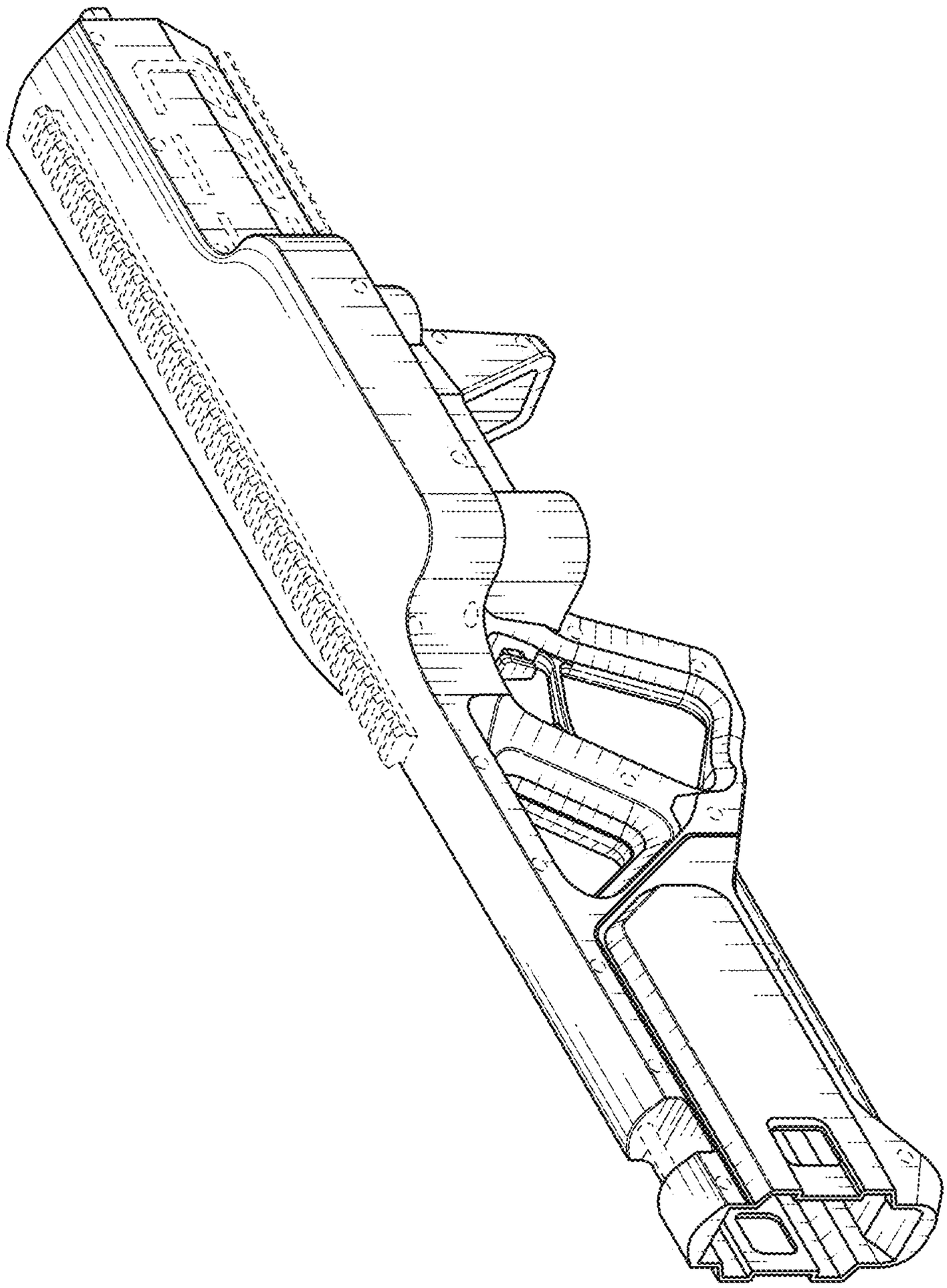

FIG. 47

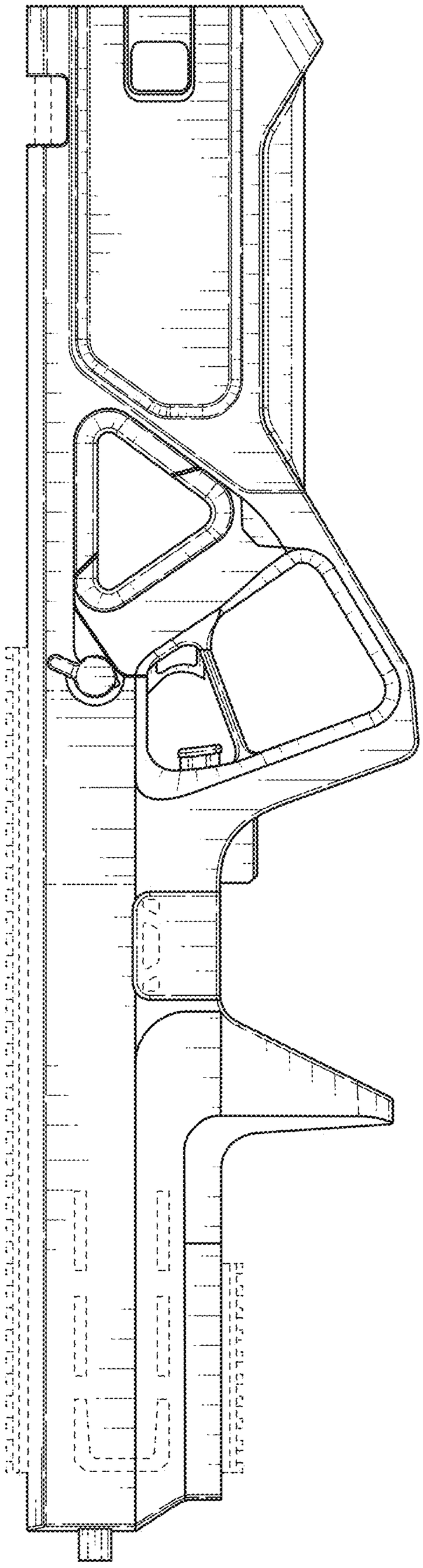

FIG. 48

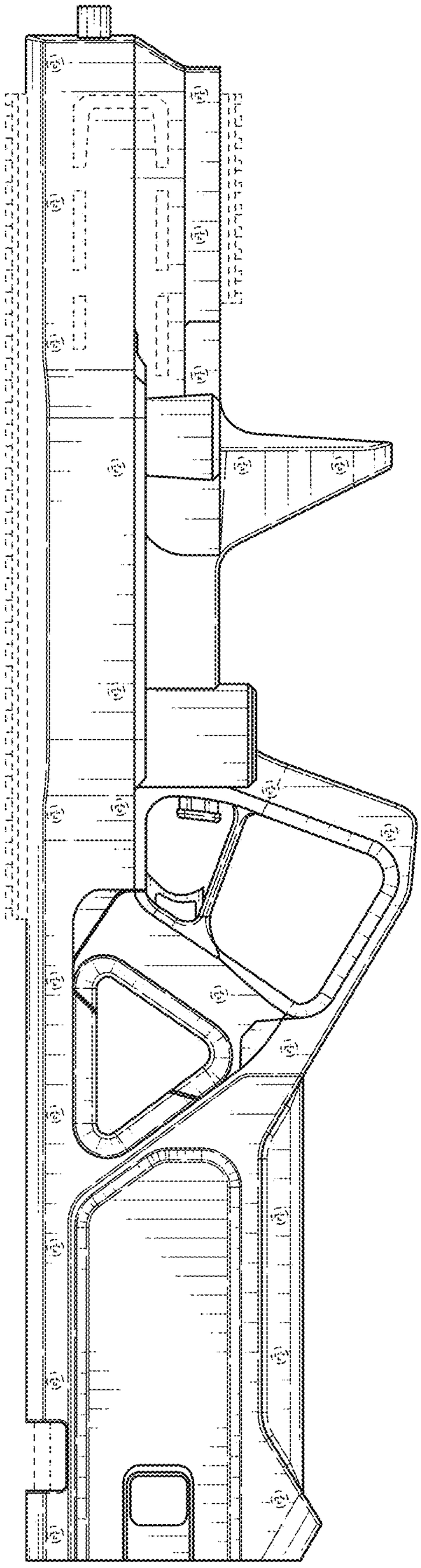

FIG. 49

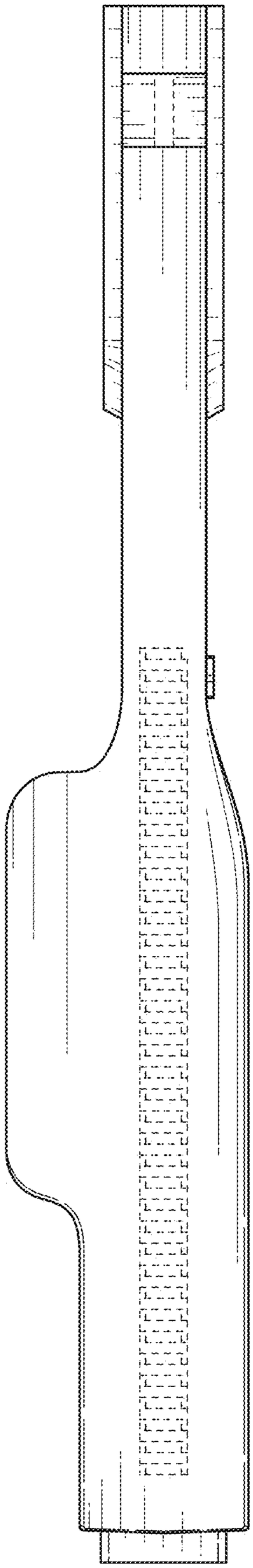

FIG. 50

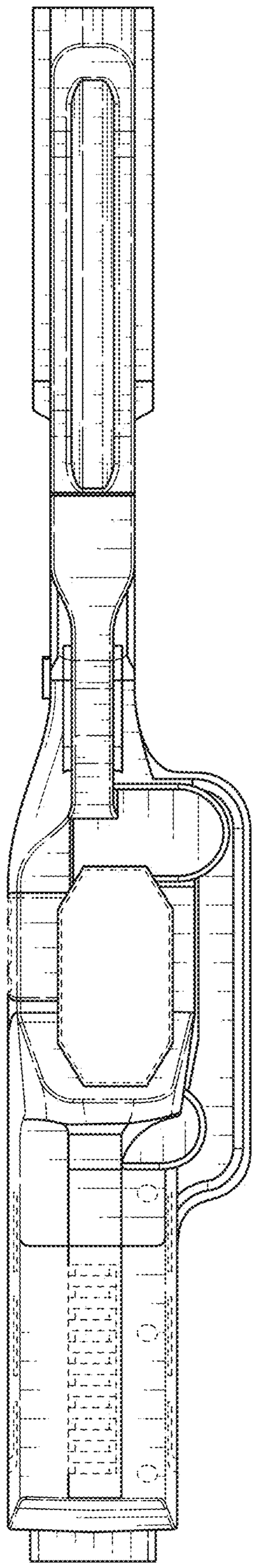

FIG. 51

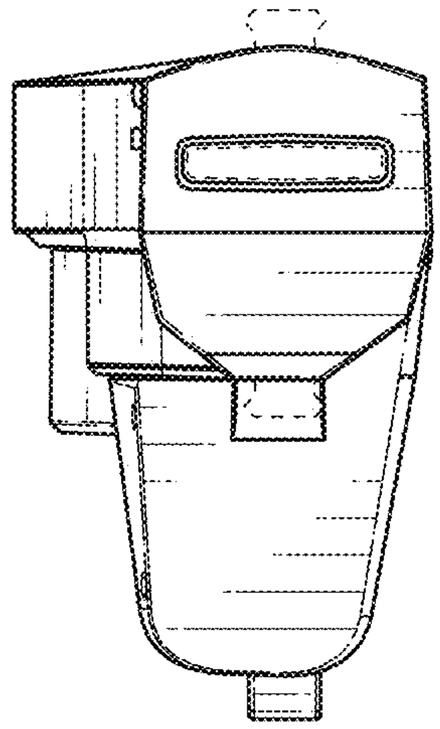

FIG. 52

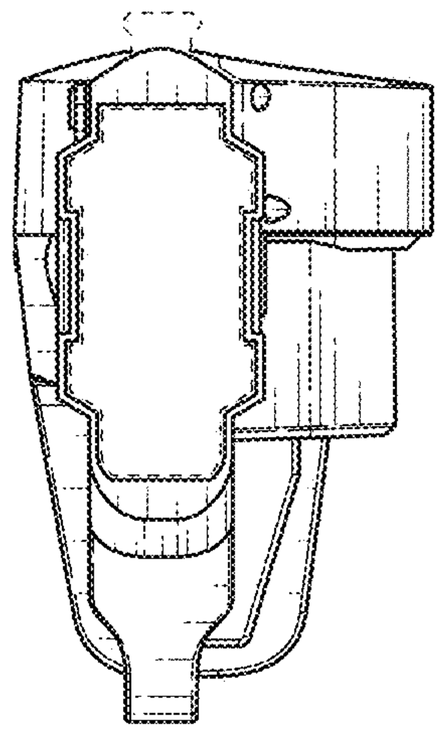

FIG. 53

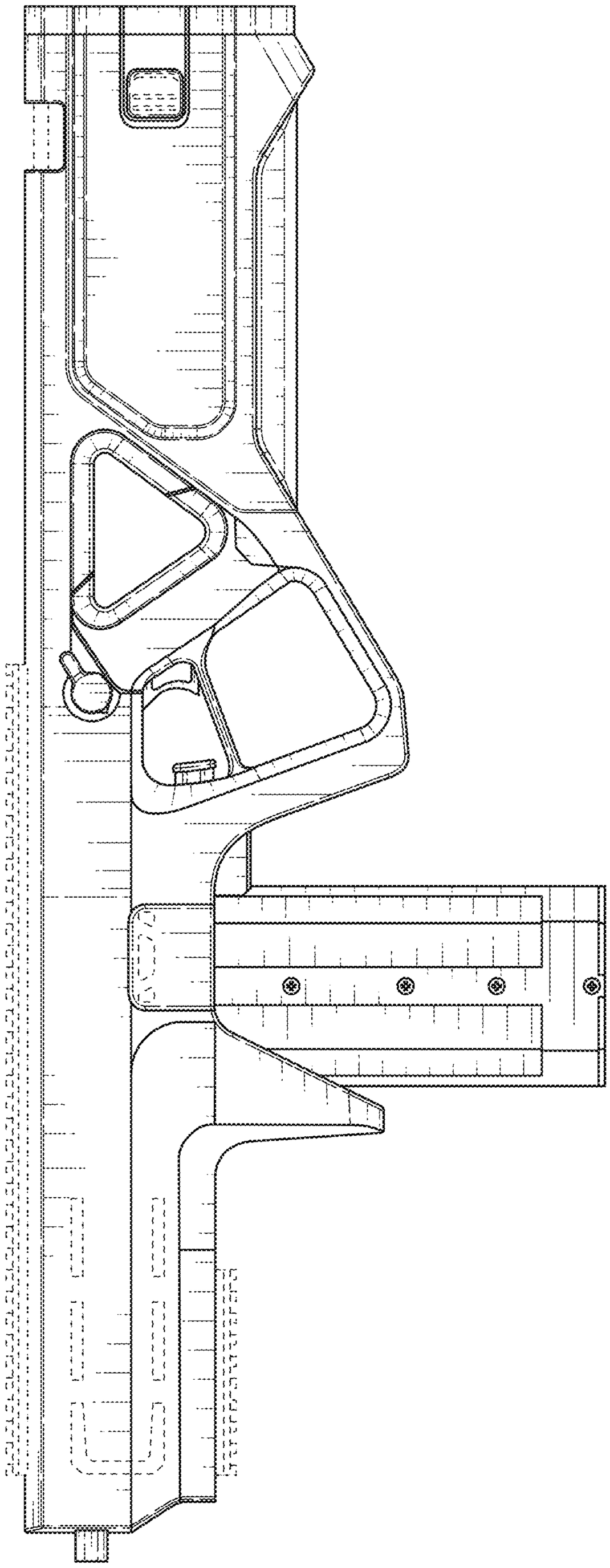

FIG. 54

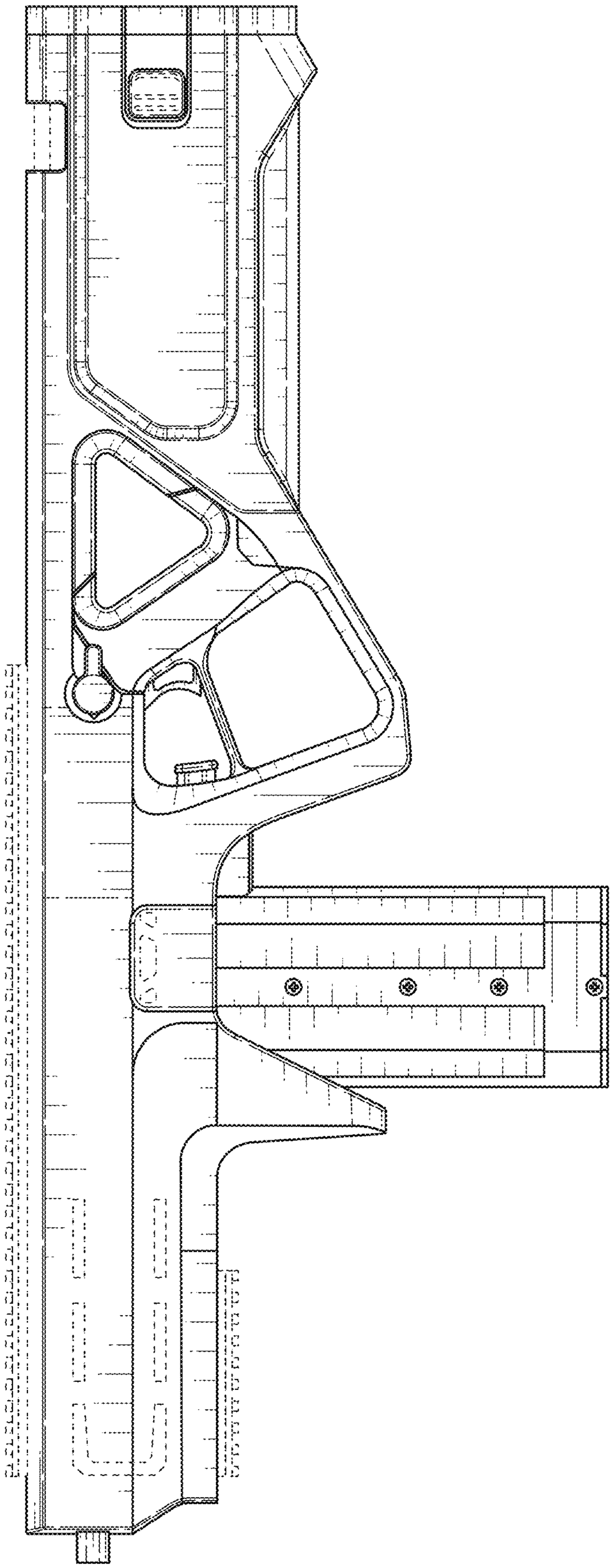

FIG. 55

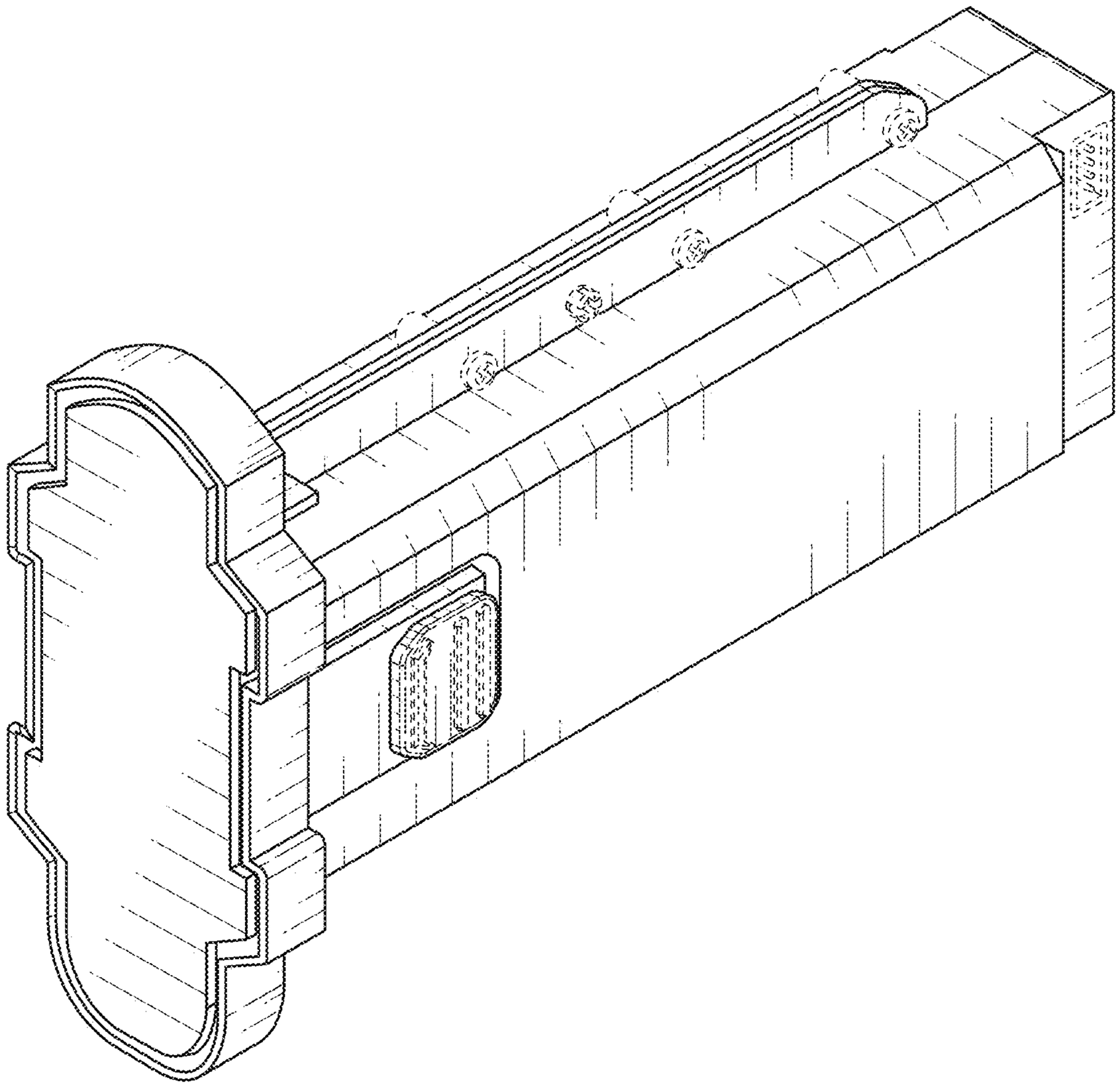

FIG. 56

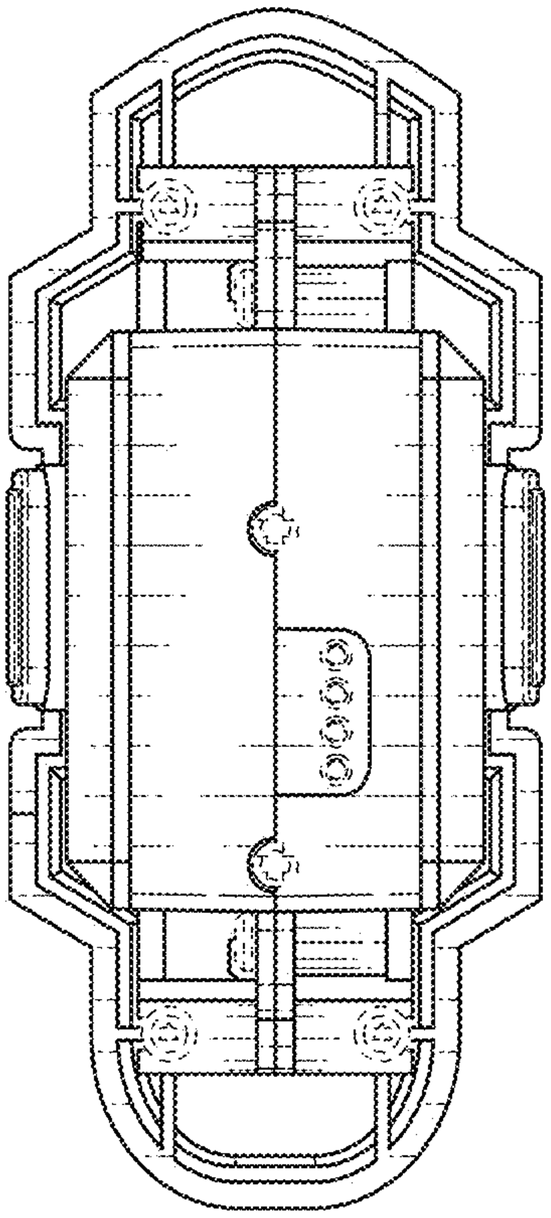

FIG. 57

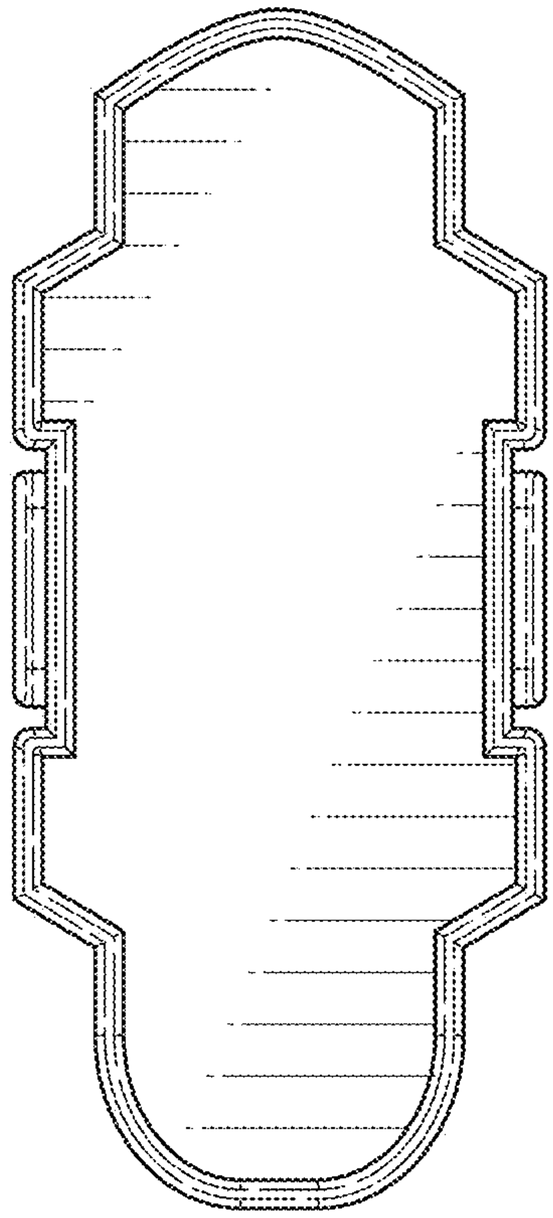

FIG. 58

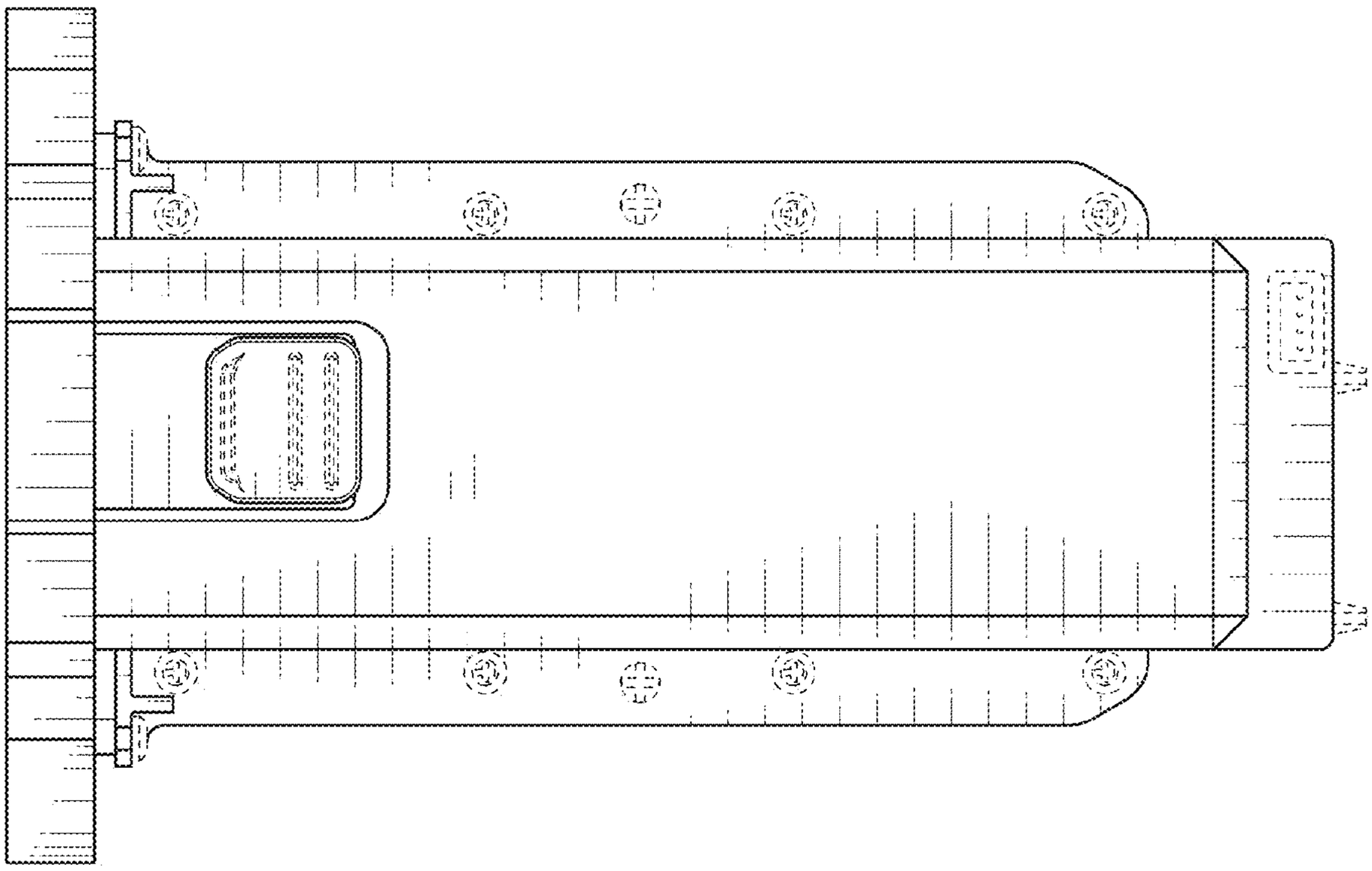

FIG. 59

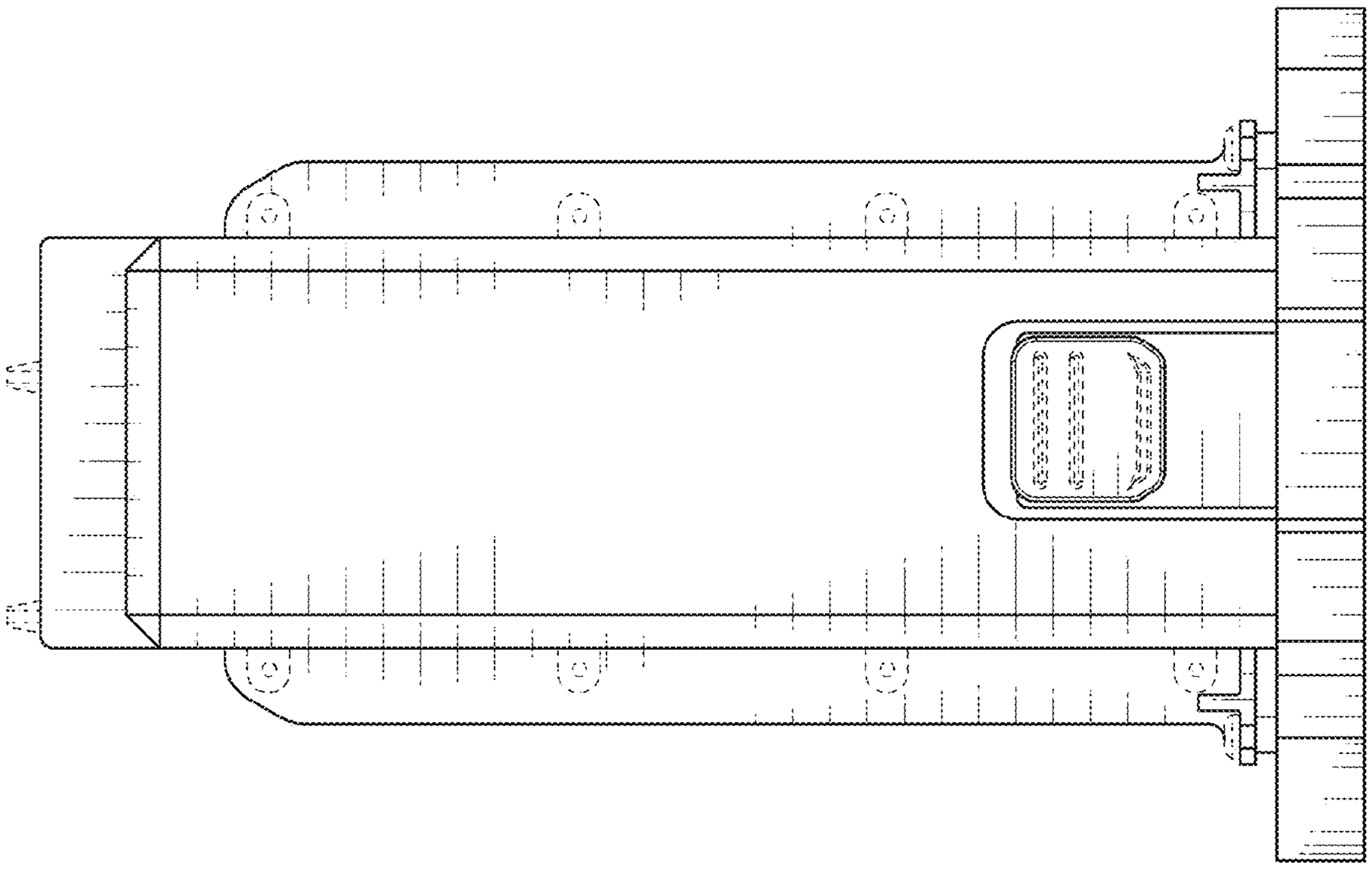

FIG. 60

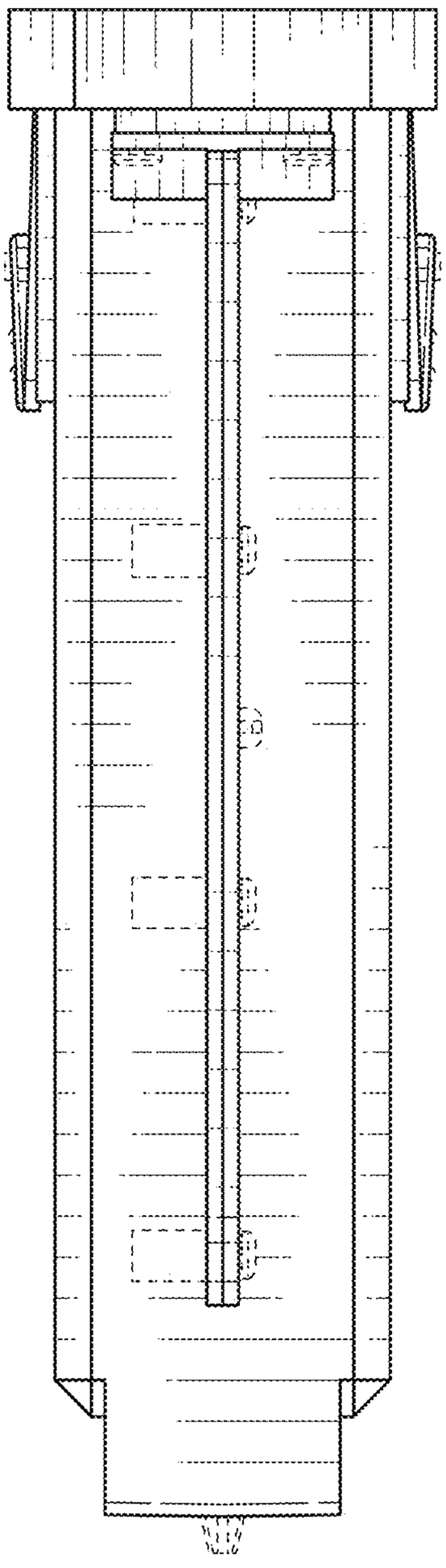

FIG. 61

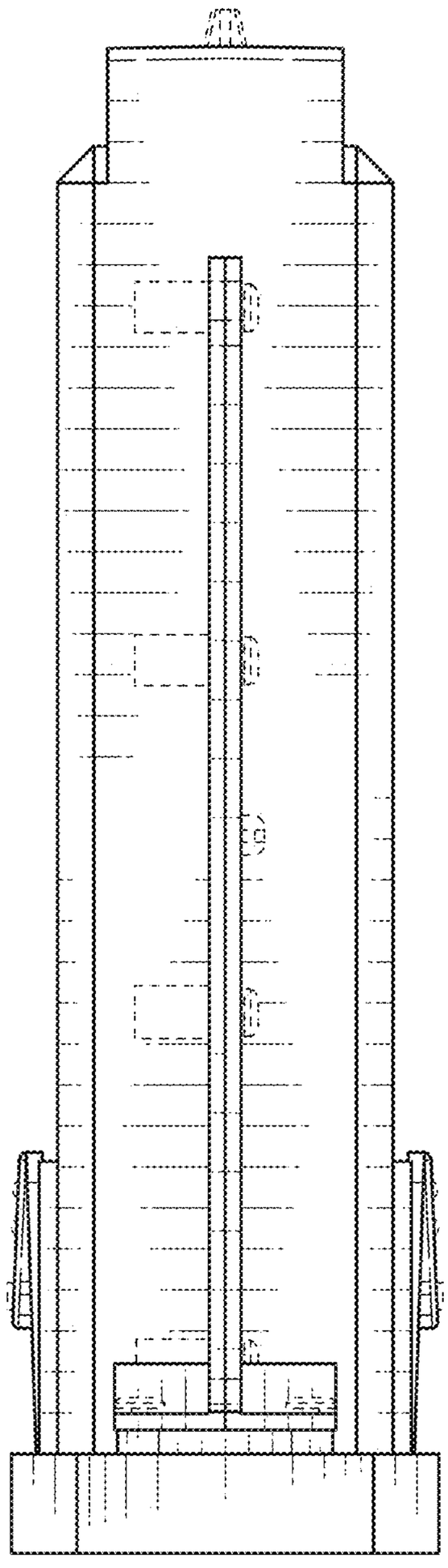

FIG. 62

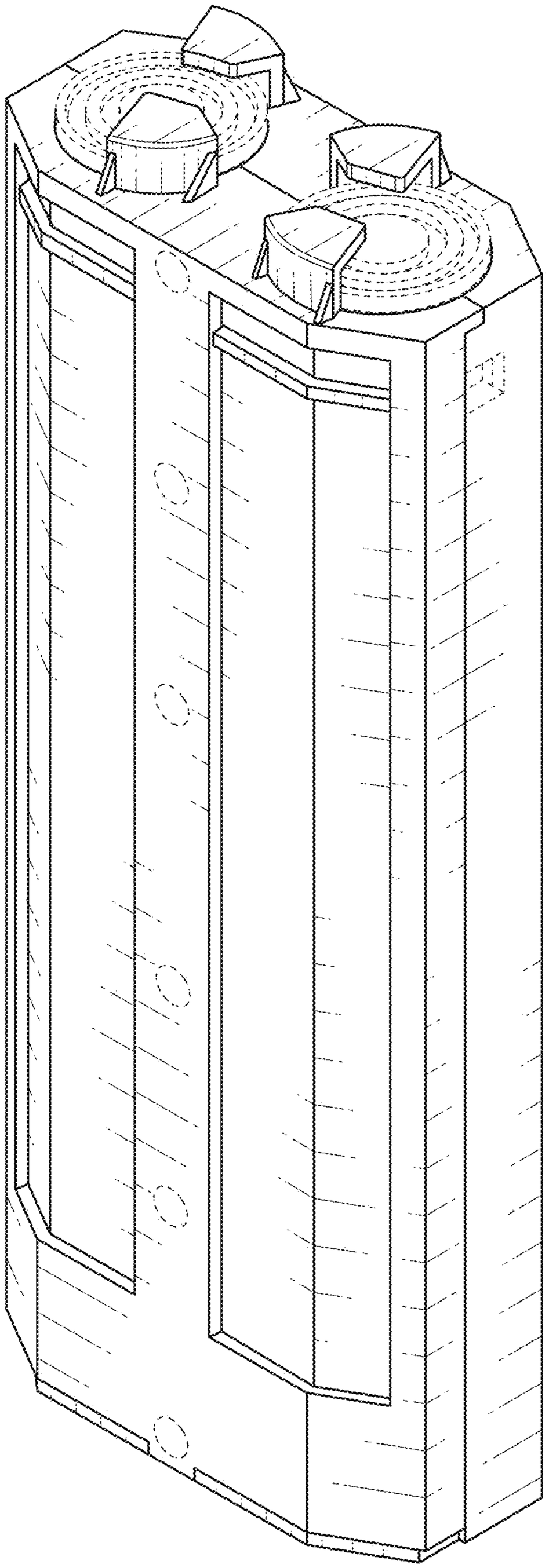

FIG. 63

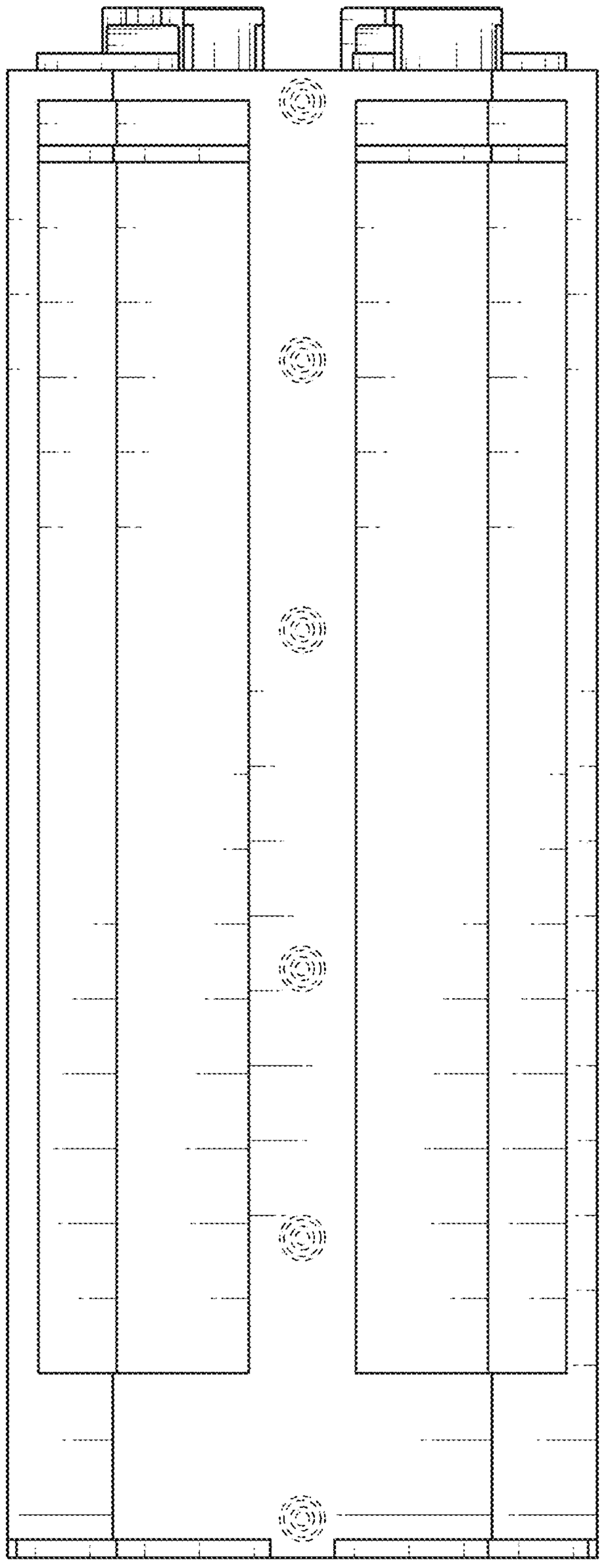

FIG. 64

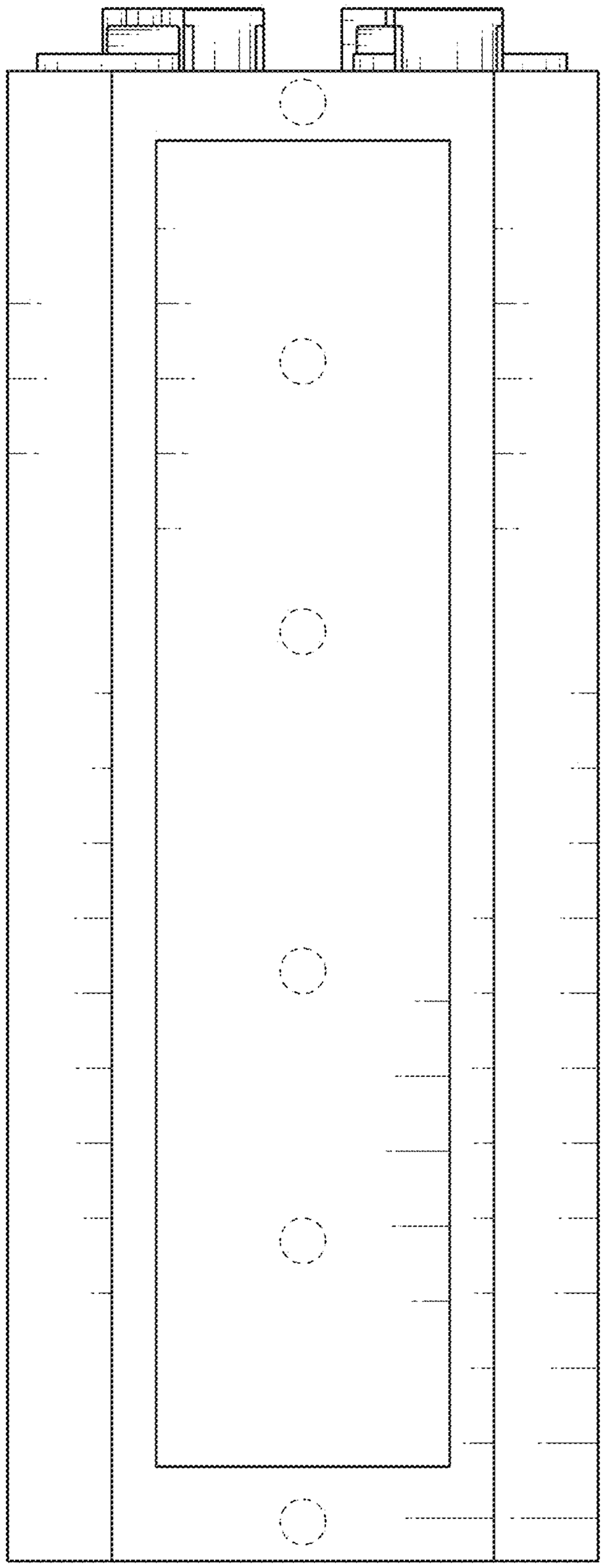

FIG. 65

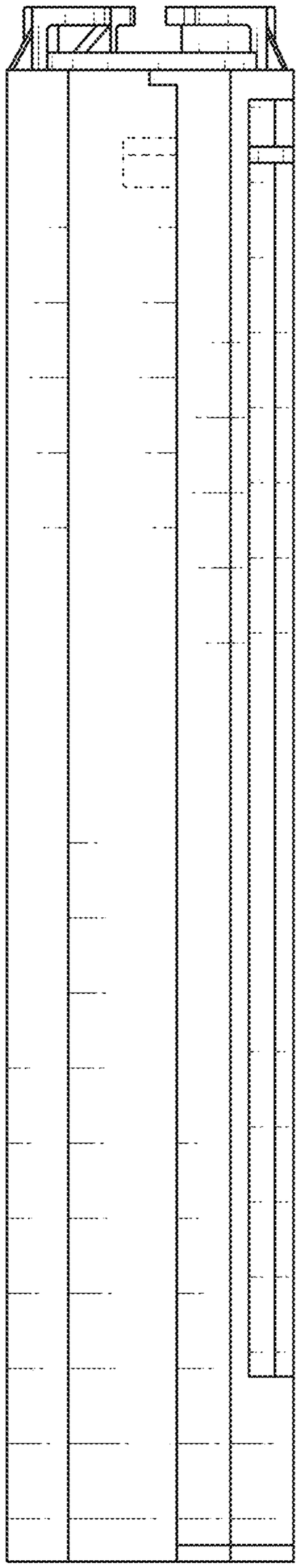

FIG. 66

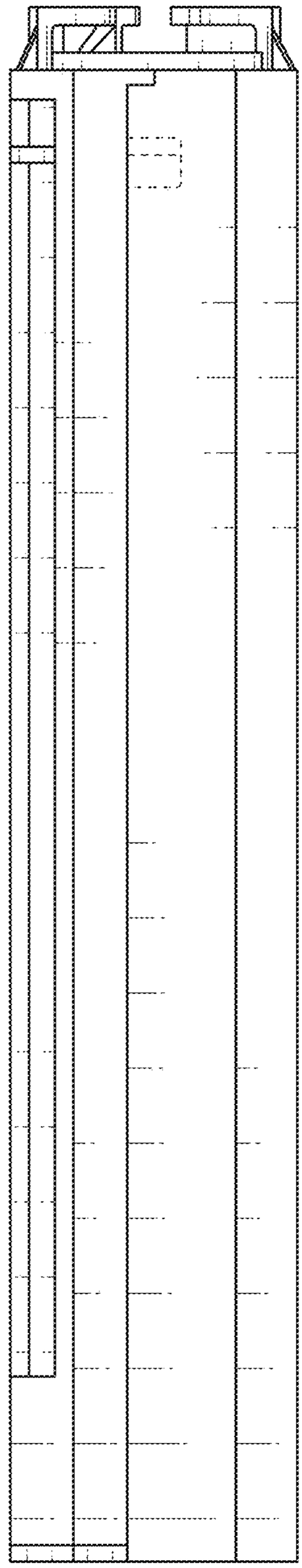

FIG. 67

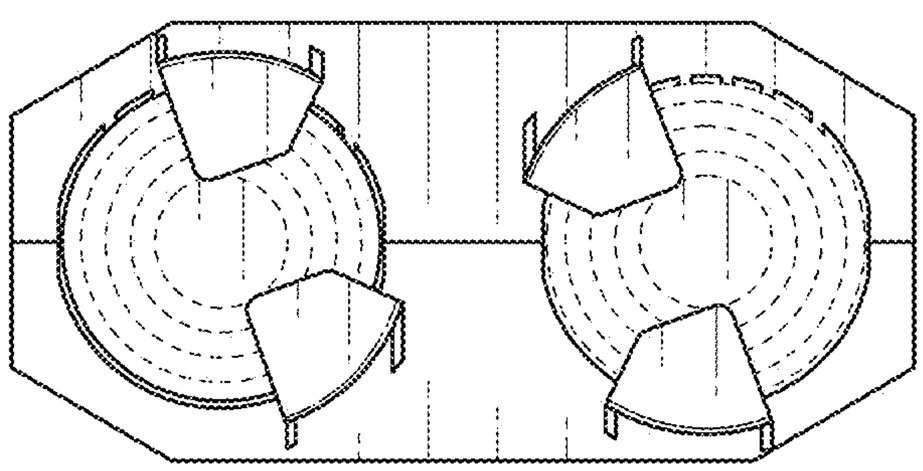

FIG. 68

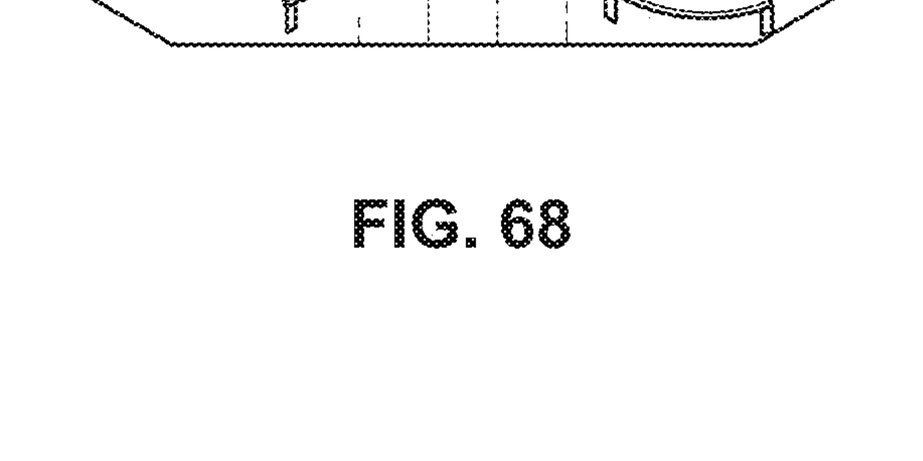

FIG. 69

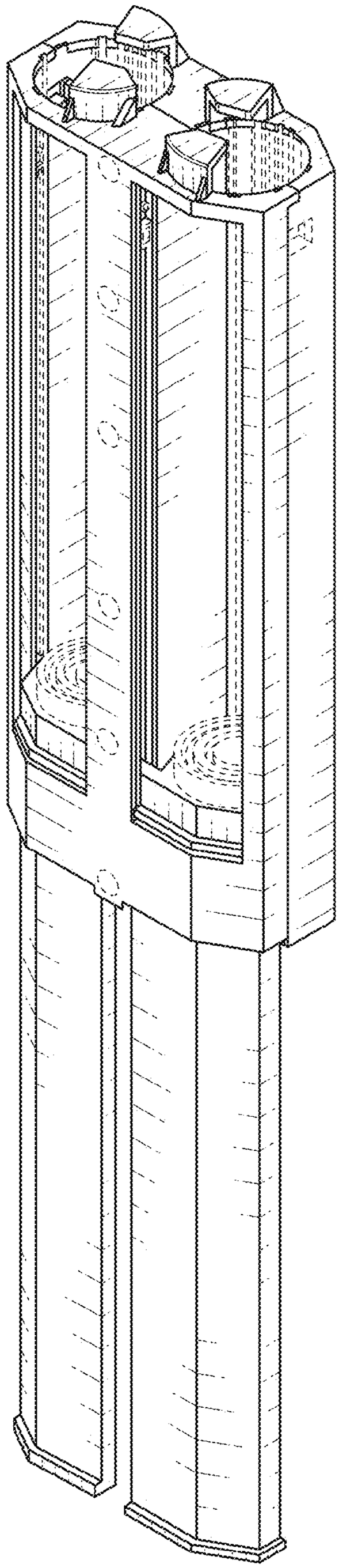

FIG. 70

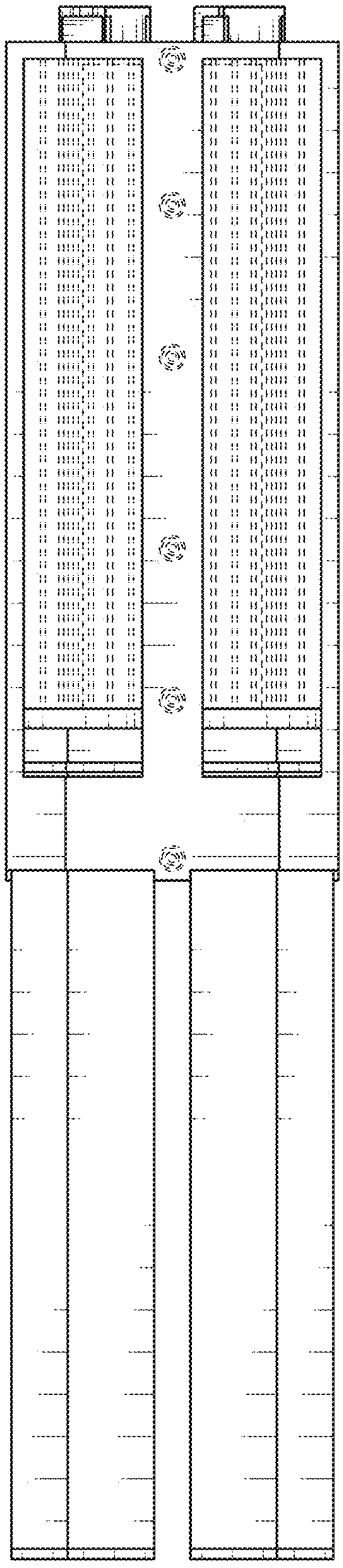

FIG. 71

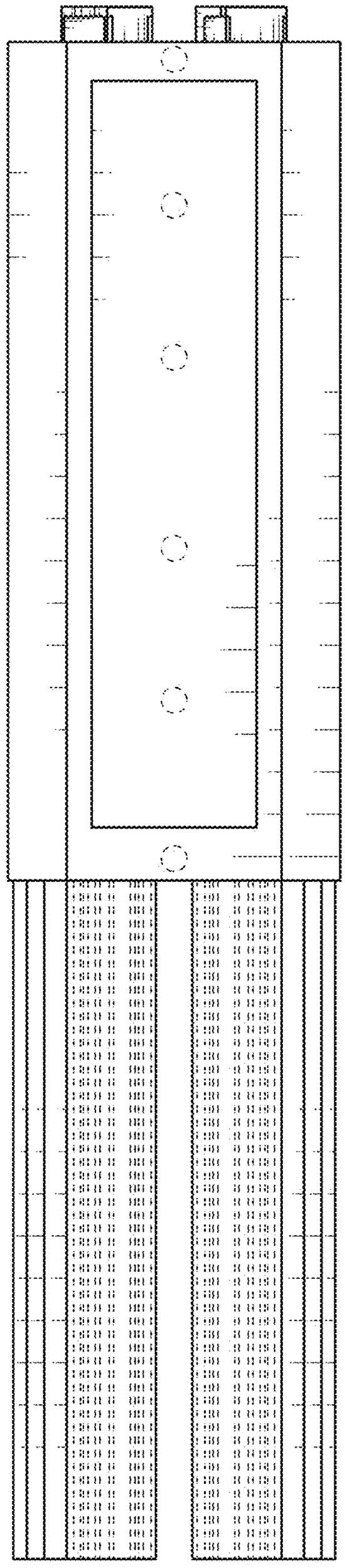

FIG. 72

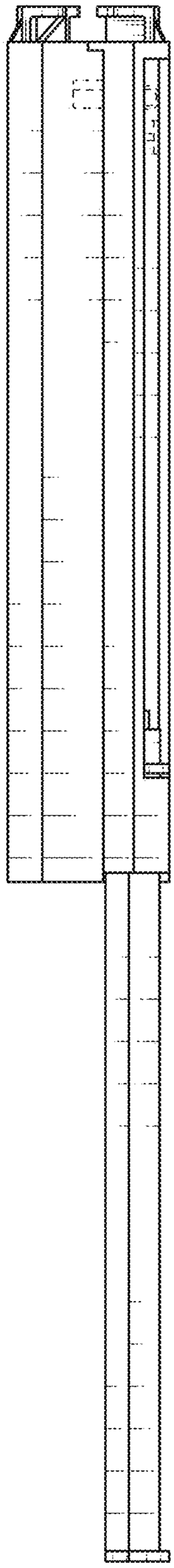

FIG. 73

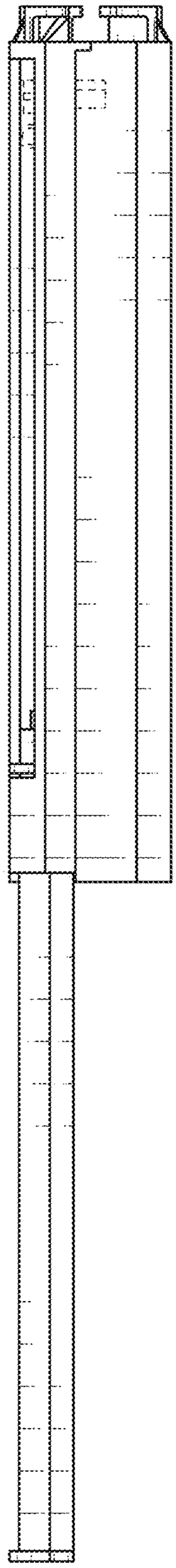

FIG. 74

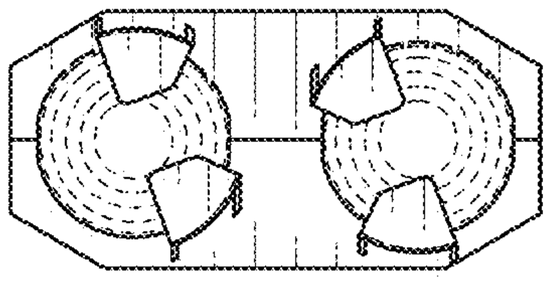

FIG. 75

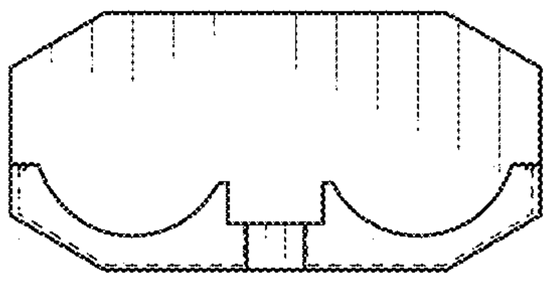

FIG. 76