



US0D1007707S

(12)

United States Design Patent

Wolf et al.

(10)

Patent No.:

US D1,007,707 S

(45)

Date of Patent:

** Dec. 12, 2023

(54) MULTI TUBE CARRIER

(71) Applicants:Stratec SE, Birkenfeld (DE);
Instrumentation Laboratory, Bedford, MA (US)

(72) Inventors: Ralf Wolf, Neuenbürg (DE);
Christopher Almy, Jr., Bedford, MA (US); Joshua A Shreve, Bedford, MA (US); Candice Bell, Bedford, MA (US); Benjamin E Newton, Bedford, MA (US)

(73) Assignees: STRATEC SE, Birkenfeld (DE);
Instrument Laboratory Company, Bedford, MA (US)

(**) Term: 15 Years

(21) Appl. No.: 29/802,342

(22) Filed: Aug. 4, 2021

(51) LOC (14) Cl. 24-02

(52) U.S. Cl. USPC D24/227

(58) Field of Classification Search
USPC D24/107, 108, 127, 128, 216, 217, 219, D24/224, 226-232; D10/81
CPC B01L 9/06; B01L 9/65; B01L 9/00; B01L 3/5025; B01L 3/508; B01L 3/5082; A61J 1/00; A61J 1/12; A61J 1/065; A61J 1/067; G01N 35/026; G01N 35/02
See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

3,186,556 A * 6/1965 Bo B25H 3/003 211/74

D413,391 S * 8/1999 Lapeus D24/227

D413,677 S * 9/1999 Dumitrescu D24/227

D420,747 S * 2/2000 Dumitrescu D24/227

D421,130 S * 2/2000 Cohen D24/229

6,123,205 A * 9/2000 Dumitrescu B01L 9/06 211/74

7,000,785 B2 * 2/2006 Jafari B01L 9/06 422/561

7,011,220 B2 * 3/2006 Deye F42B 4/20 211/60.1

D632,402 S * 2/2011 Sattler D24/224

D637,731 S * 5/2011 Sattler D24/224

D674,507 S * 1/2013 Suzuki D24/229

(Continued)

FOREIGN PATENT DOCUMENTS

CN 201330063043 * 7/2013

JP D2015-12159 * 6/2016

Primary Examiner — Omeed Agilee

(74) Attorney, Agent, or Firm — 24IP LAW GROUP USA, PLLC; Timothy Dewitt

(57) CLAIM

The ornamental design for a multi tube carrier, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a multi tube carrier showing our new design;

FIG. 2 is a front view of the multi tube carrier shown in FIG. 1;

FIG. 3 is a rear view of the multi tube carrier shown in FIG. 1;

FIG. 4 is a right side view of the multi tube carrier shown in FIG. 1;

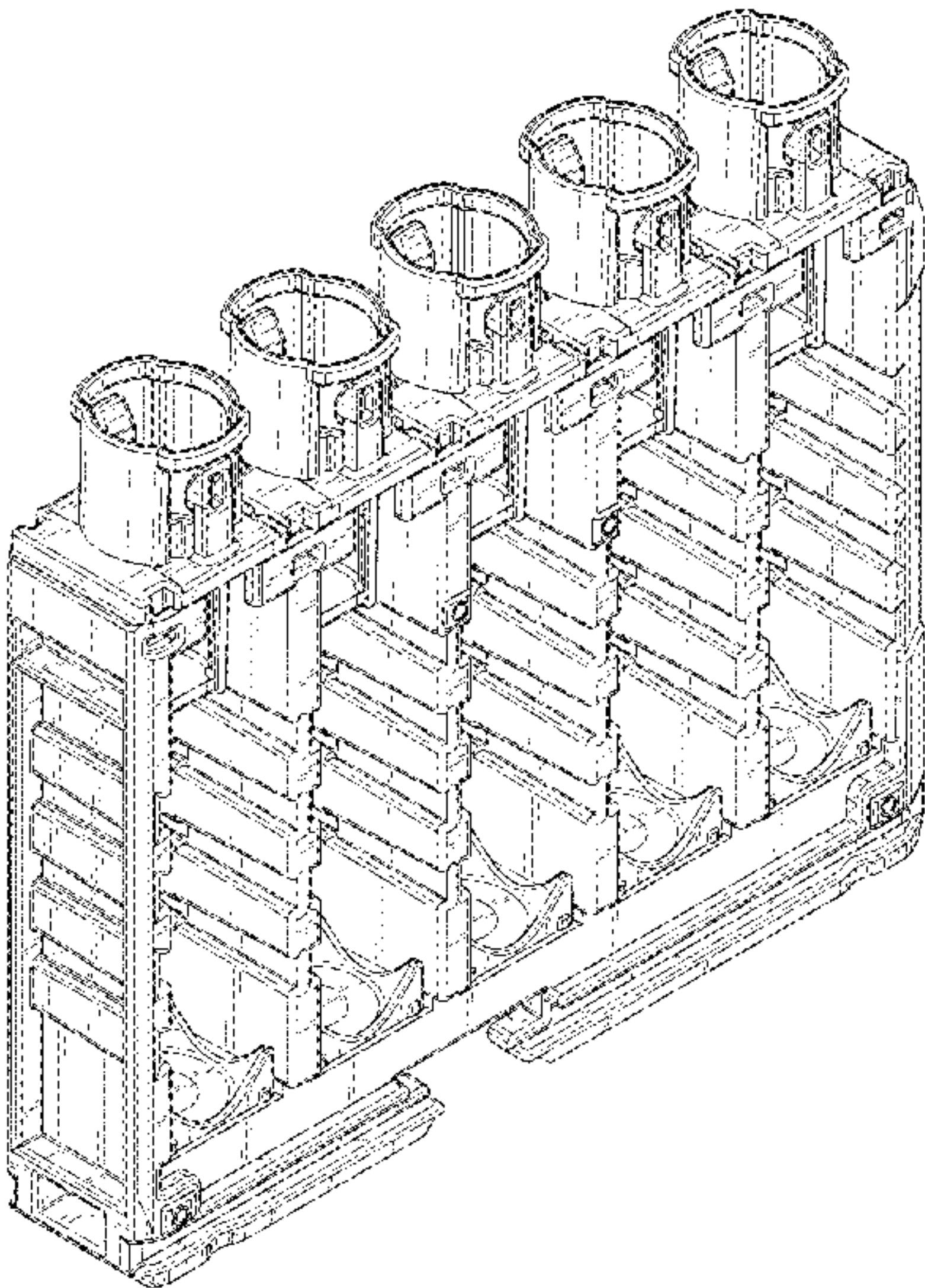
FIG. 5 is a left side view of the multi tube carrier shown in FIG. 1;

FIG. 6 is a bottom view of the multi tube carrier shown in FIG. 1; and,

FIG. 7 is a top view of the multi tube carrier shown in FIG. 1.

The broken lines in the drawings depict portions of the multi tube carrier that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D812,244	S	*	3/2018	Shanafelter	D24/230
D837,401	S	*	1/2019	Gardner	D24/230
D937,435	S	*	11/2021	Rai	D24/230
D975,313	S	*	1/2023	Tanaka	D24/226
2011/0182784	A1	*	7/2011	Suzuki	B01L 9/06
					422/561
2018/0290143	A1	*	10/2018	Cofano	G01N 35/1016
2020/0072857	A1	*	3/2020	Oda	G01N 35/00732
2021/0156877	A1	*	5/2021	Wolf	G01N 35/00732

* cited by examiner

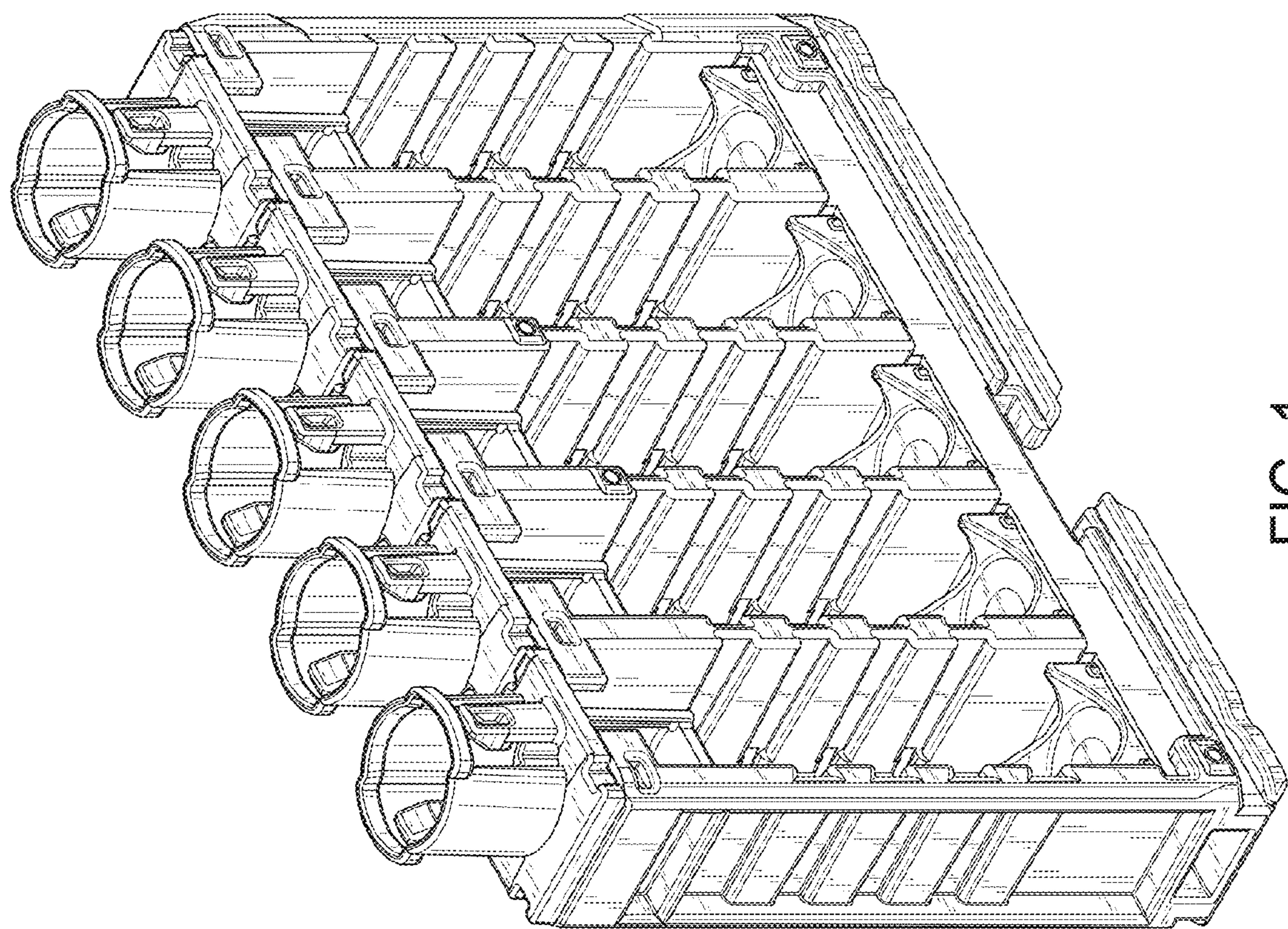


FIG. 1

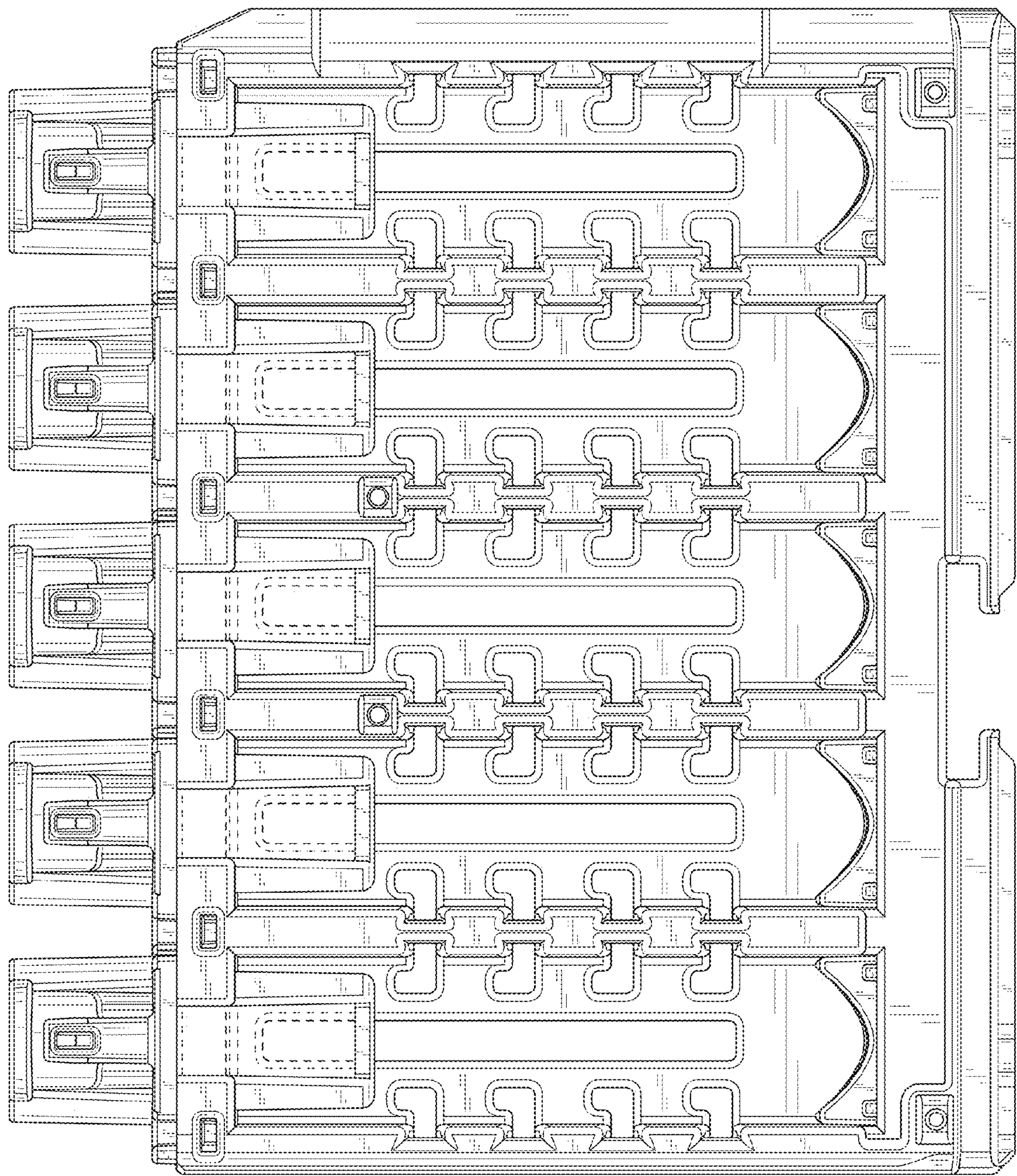


FIG. 2

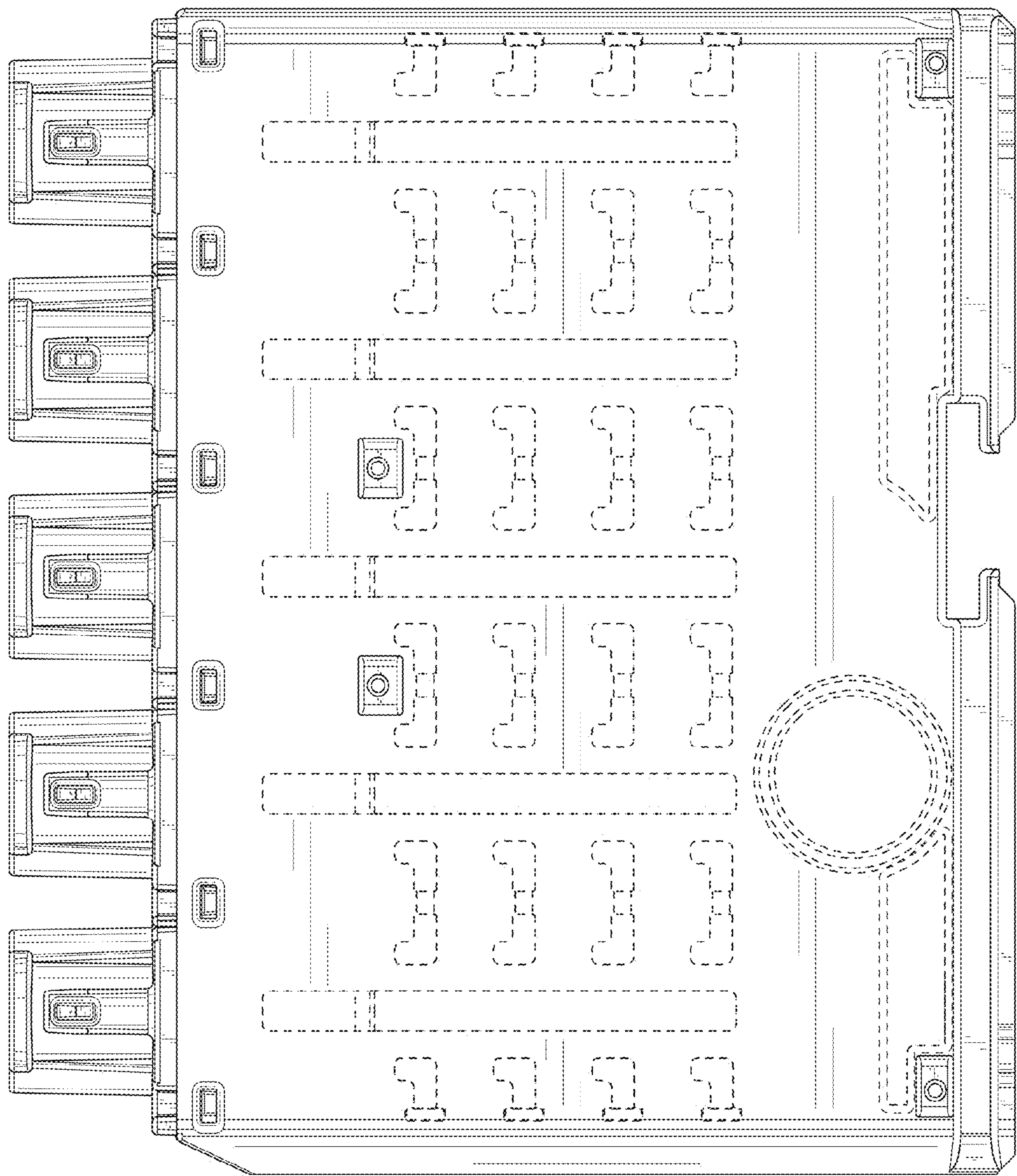


FIG. 3

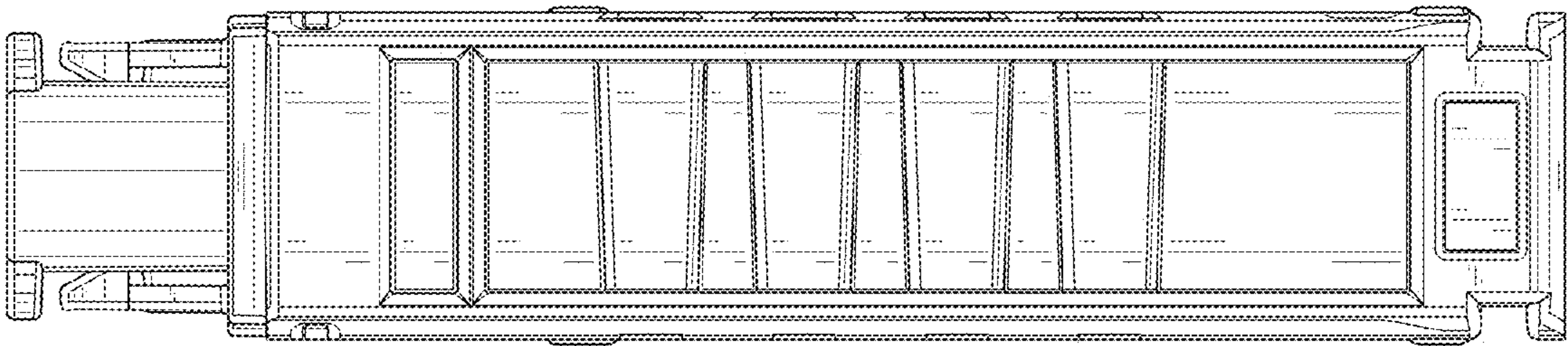


FIG. 4

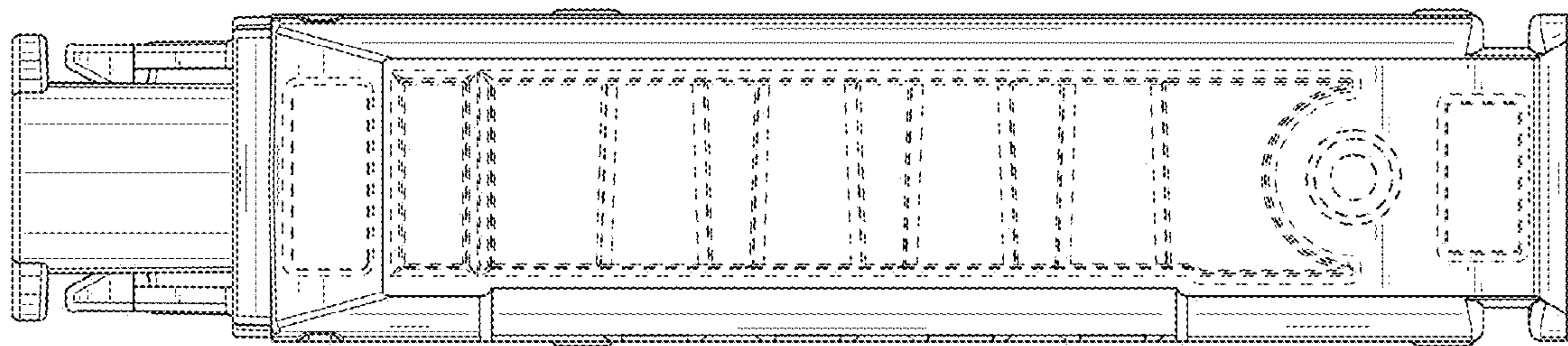


FIG. 5

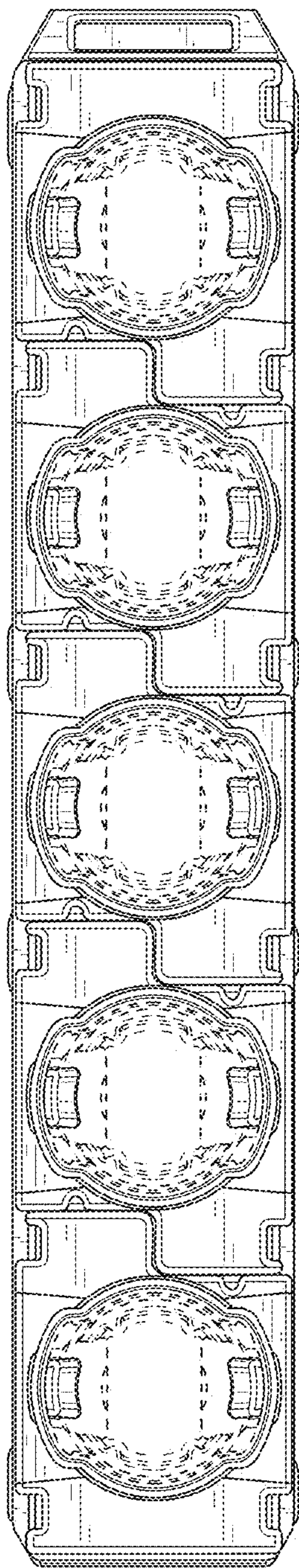


FIG. 6

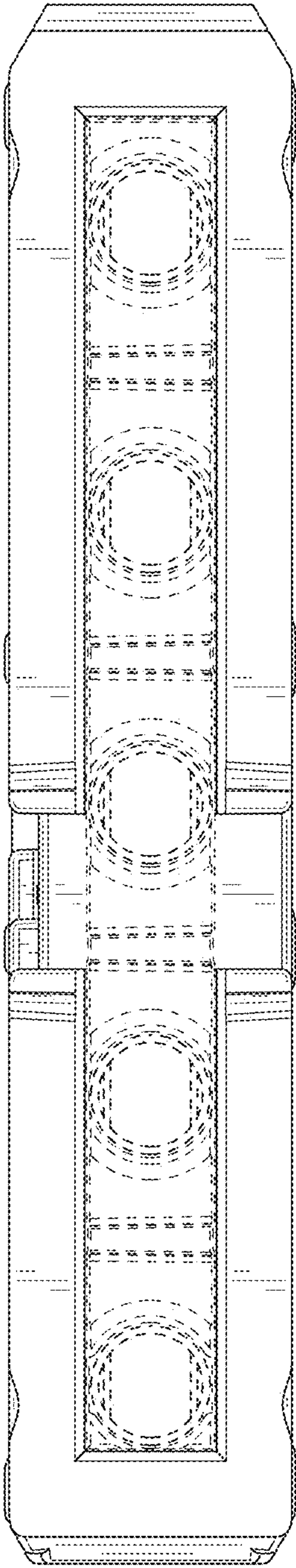


FIG. 7