



US00D978805S

(12) **United States Design Patent**
Dong et al.

(10) **Patent No.:** **US D978,805 S**

(45) **Date of Patent:** **** Feb. 21, 2023**

(54) **BUS BAR**

(71) Applicant: **Ariens Company**, Brillion, WI (US)

(72) Inventors: **Jason Dong**, Woodridge, IL (US);
William Tenorio, Woodridge, IL (US)

(73) Assignee: **Ariens Company**, Brillion, WI (US)

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

(21) Appl. No.: **29/751,236**

(22) Filed: **Sep. 18, 2020**

(51) **LOC (14) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/147**

(58) **Field of Classification Search**
USPC D13/101, 110, 112, 118, 120, 123, 133,
D13/146, 147, 149, 154, 156, 182, 184,
D13/199; D14/356, 433, 435, 438
CPC H01R 24/00; H01R 12/00; H01R 12/70;
H01R 13/62
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D311,742 S	10/1990	Splittstoesser	
D359,740 S	6/1995	Crosby et al.	
D412,702 S	8/1999	Goto	
D428,023 S	7/2000	Surrige et al.	
D450,330 S	11/2001	Katoh et al.	
D495,718 S	9/2004	Higashikawa	
D503,682 S *	4/2005	Tanaka	D13/147
D536,709 S	2/2007	Kullhem et al.	
D560,690 S	1/2008	Higashikawa	
D582,416 S	12/2008	Duarte et al.	
D609,641 S	2/2010	Huang et al.	
D617,733 S	6/2010	Yang	
D618,172 S	6/2010	Yang	
D674,816 S	1/2013	Higashikawa et al.	
D681,685 S	5/2013	Higashikawa	
D695,692 S *	12/2013	Takenaga	D13/147

D707,260 S	6/2014	Hippoliti	
D707,721 S	6/2014	Hippoliti	
D733,058 S *	6/2015	Miyazaki	D13/147
D739,826 S *	9/2015	Omodachi	D13/147

(Continued)

FOREIGN PATENT DOCUMENTS

WO	2019/129045 A1	7/2019
WO	2019/129129 A1	7/2019
WO	2020/019687 A1	1/2020

OTHER PUBLICATIONS

Sodd, announced on Mar. 3, 2020 [online], retrieved on Jul. 26, 2022, retrieved from internet, <https://web.archive.org/web/20200303225748/https://www.soddele.com/pin-copper-comb-busbar-for-mcb/mcb-busbar-pin-type-3-pole> (Year: 2020).*

Primary Examiner — Messina L Smith
Assistant Examiner — Noah Perez
(74) *Attorney, Agent, or Firm* — Michael Best & Friedrich LLP

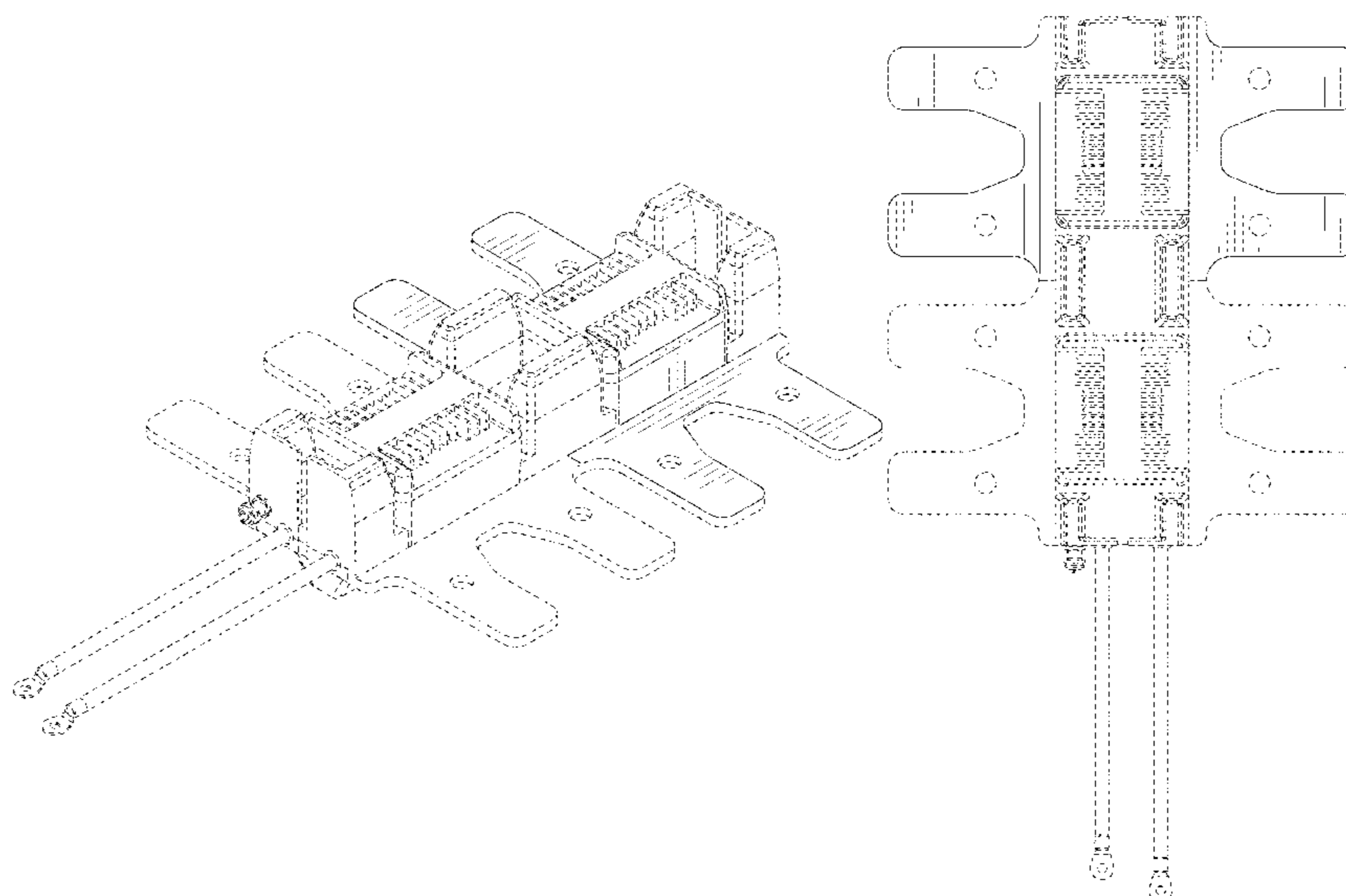
(57) **CLAIM**

We claim the ornamental design for a bus bar, as shown and described.

DESCRIPTION

FIG. 1 is a top, front, right perspective view of a bus bar showing our new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a right side view thereof; and,
FIG. 6 is a top view thereof.
The broken lines immediately adjacent to the shaded area depict boundaries of the claimed design and form no part thereof. The broken lines in the drawings depict portions of the bus bar that form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D745,848 S	*	12/2015	Kobuchi	D13/147	D866,609 S	11/2019	Long	
D762,165 S		7/2016	Rowe et al.		D866,610 S	11/2019	Long	
D768,085 S	*	10/2016	Yokoyama	D13/147	D866,611 S	11/2019	Long	
D769,196 S	*	10/2016	Yokoyama	D13/147	D876,368 S	*	2/2020	Yokoyama D13/147
D774,462 S	*	12/2016	Omodachi	D13/147	D882,510 S		4/2020	Theis
D789,423 S		6/2017	Shi		D887,357 S		6/2020	Liao
D792,854 S	*	7/2017	Ashibu	D13/147	D900,022 S		10/2020	Bell et al.
D795,813 S	*	8/2017	Goto	D13/147	D904,976 S		12/2020	Stoermer
D815,039 S		4/2018	Wen et al.		D907,581 S	*	1/2021	Ishida D13/147
D816,043 S	*	4/2018	Ashibu	D13/147	D911,957 S		3/2021	Sun
D820,197 S		6/2018	Luke et al.		D932,433 S		10/2021	Tang et al.
D826,166 S	*	8/2018	Yayoshi	D13/147	D937,211 S		11/2021	Zugen et al.
D834,523 S	*	11/2018	Bingham	D13/147	11,217,852 B2		1/2022	Matsumoto
D834,524 S	*	11/2018	Yayoshi	D13/147	D942,928 S		2/2022	Yi
D835,047 S	*	12/2018	Bingham	D13/147	2019/0075724 A1		3/2019	Becke et al.
D846,494 S		4/2019	Takahashi		2019/0160972 A1		5/2019	Zeiler et al.
					2019/0291779 A1		9/2019	Zeiler et al.
					2020/0315095 A1		10/2020	Liu et al.

* cited by examiner

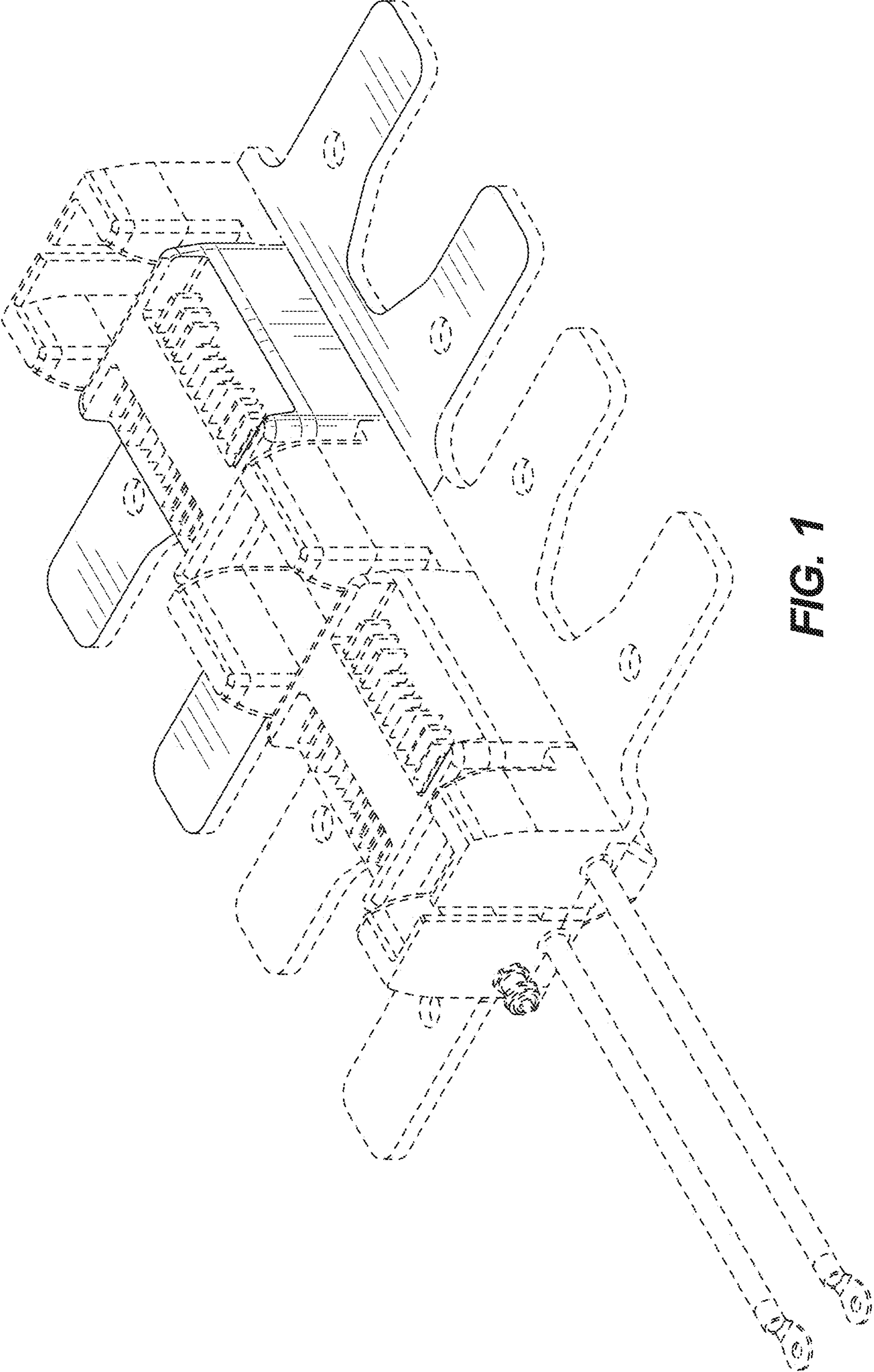


FIG. 1

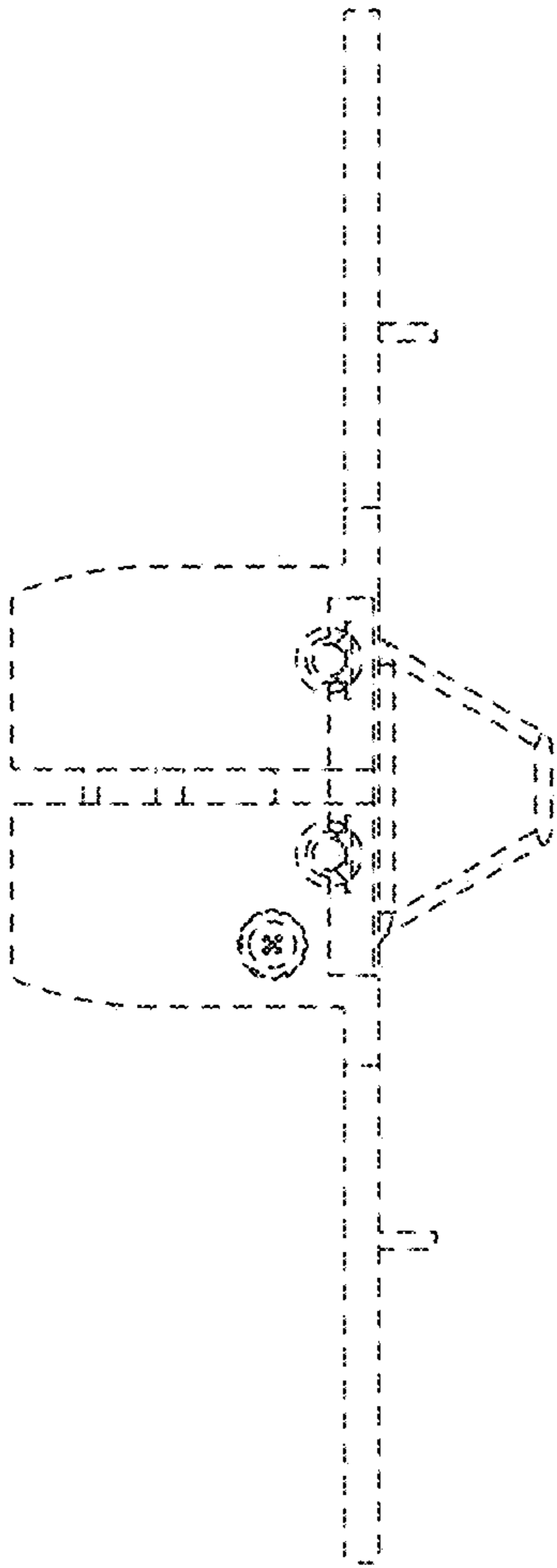


FIG. 2

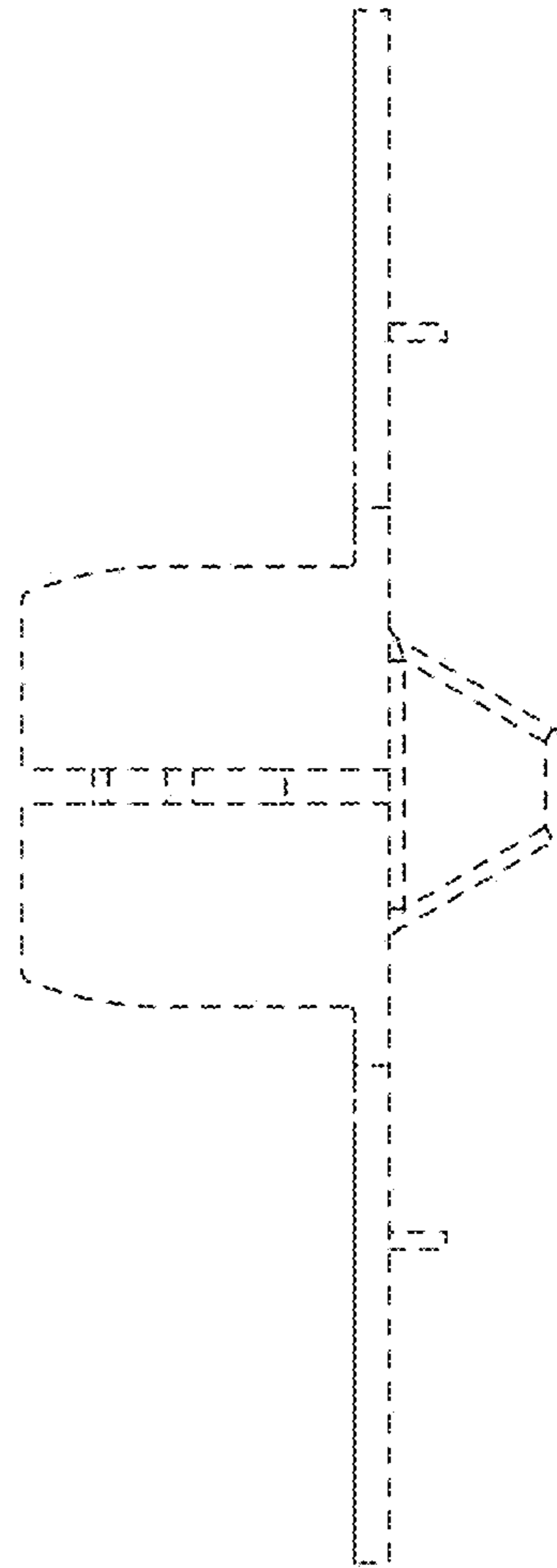


FIG. 3

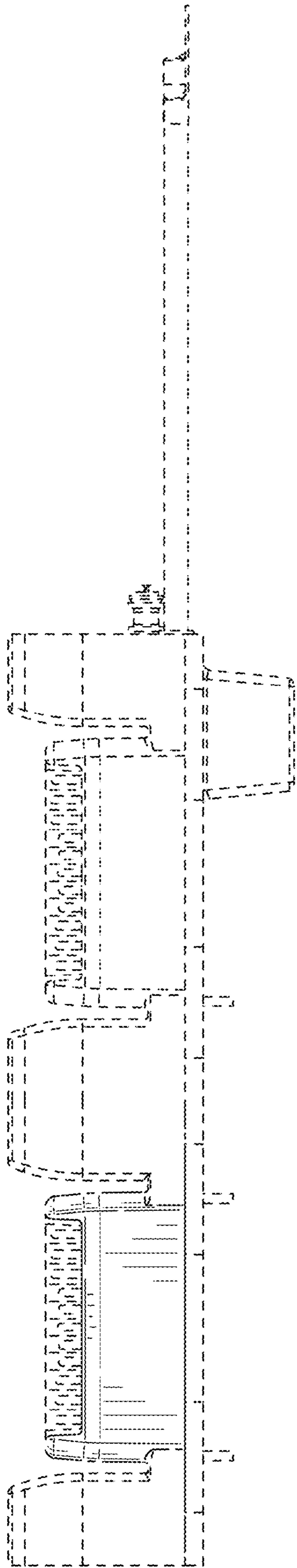


FIG. 4

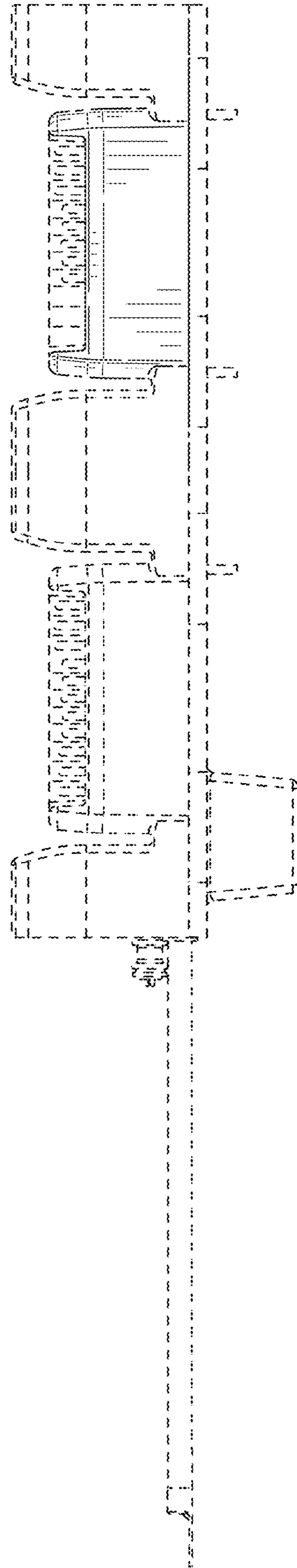


FIG. 5

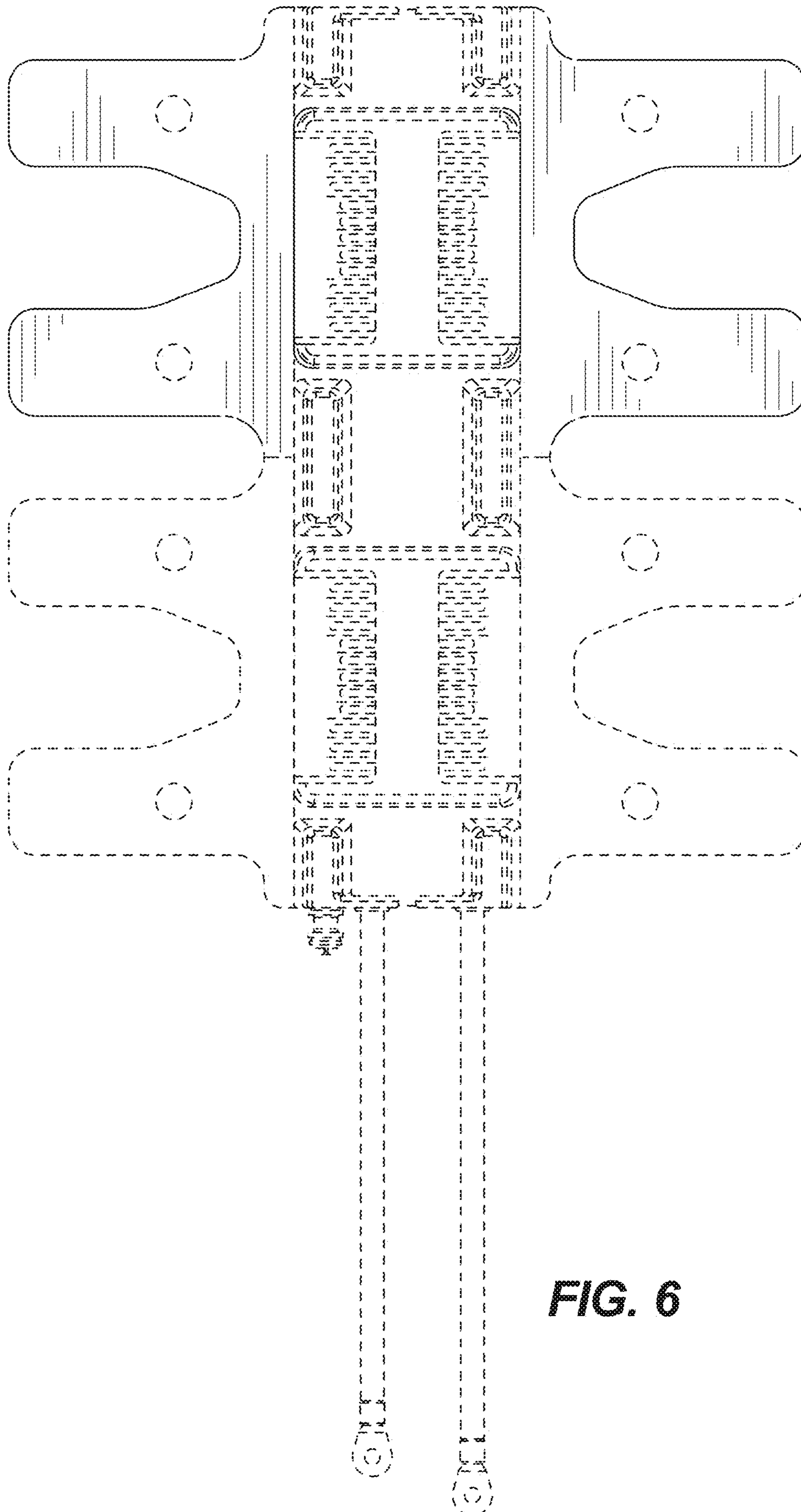


FIG. 6