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

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(54) **SURGICAL RETRACTOR ARM**

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

(21) Appl. No.: **29/767,756**

(22) Filed: **Jan. 25, 2021**

(51) **LOC (13) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/135**

(58) **Field of Classification Search**
USPC D24/135, 133, 155

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,963,173 A 6/1934 Morin
4,702,230 A * 10/1987 Pelta A61B 17/0206
403/362

(Continued)

FOREIGN PATENT DOCUMENTS

EM 008628606-0001 * 8/2021
EM 008628606-0002 * 8/2021

(Continued)

OTHER PUBLICATIONS

Internet Publication by Advanced Surgical Retractor Sytems, Inc., TITAN CSR, Publication Date: Mar. 25, 2021, [online], [rtrived on

Jan. 12, 2022]. Retrieved from Internet, <URL: <https://www.youtube.com/watch?v=jveUJk9TO2w>>.*

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Primary Examiner — Bridget L Eland

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(57) **CLAIM**

The ornamental design for a surgical retractor arm, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a first embodiment of a surgical retractor arm, showing our design;

FIG. 2 is a top plan view of the surgical retractor arm of FIG. 1;

FIG. 3 is a bottom plan view of the surgical retractor arm of FIG. 1;

FIG. 4 is a left side elevational view of the surgical retractor arm of FIG. 1;

FIG. 5 is a right side elevational view of the surgical retractor arm of FIG. 1;

FIG. 6 is a front elevational view of the surgical retractor arm of FIG. 1;

FIG. 7 is a rear elevational view of the surgical retractor arm of FIG. 1;

FIG. 8 is a top perspective view of the surgical retractor arm of FIG. 1 shown with environment;

FIG. 9 is a top perspective view of a second embodiment of a surgical retractor arm, showing our design;

FIG. 10 is a top plan view of the surgical retractor arm of FIG. 9;

FIG. 11 is a bottom plan view of the surgical retractor arm of FIG. 9;

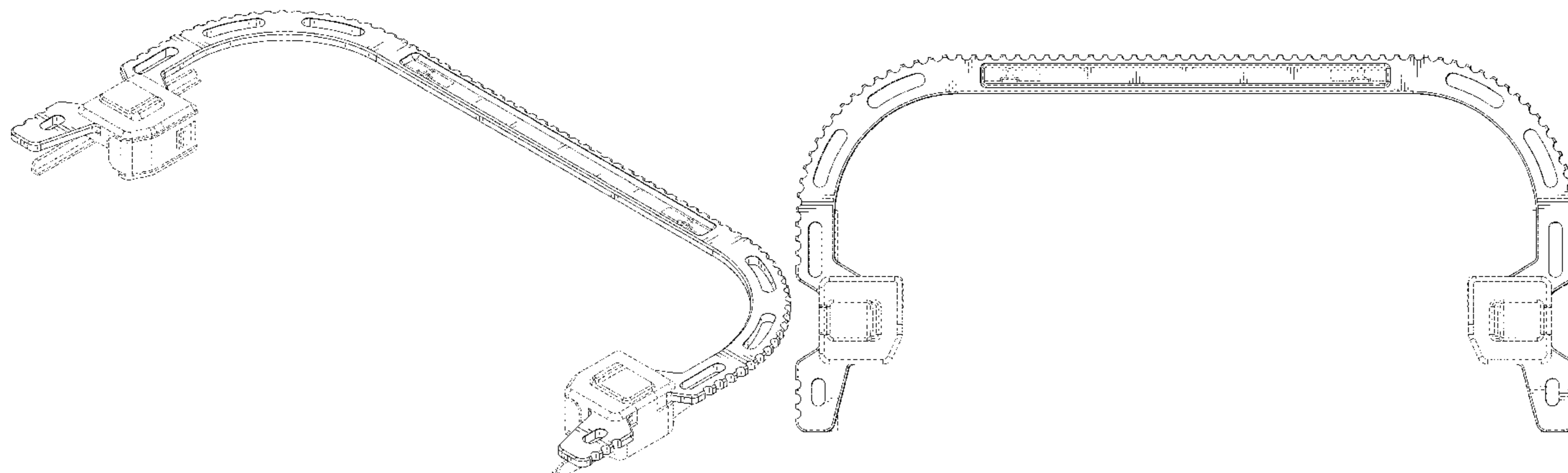
FIG. 12 is a left side elevational view of the surgical retractor arm of FIG. 9;

FIG. 13 is a right side elevational view of the surgical retractor arm of FIG. 9;

FIG. 14 is a front elevational view of the surgical retractor arm of FIG. 9;

FIG. 15 is a rear elevational view of the surgical retractor arm of FIG. 9; and,

(Continued)



US D954,945 S

Page 2

FIG. 16 is a top perspective view of the surgical retractor arm of FIG. 9 shown with environment.

The broken lines in the drawings show portions of the surgical retractor arm that form no part of the claimed design.

1 Claim, 12 Drawing Sheets

(58) Field of Classification Search

CPC A61B 17/02; A61B 17/0206; Y10T
403/7041; Y10T 403/7152

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D319,502 S *	8/1991	Michelson	D24/135
D361,381 S *	8/1995	Koros	D24/135
D380,548 S *	7/1997	Koros	D24/135
D396,285 S *	7/1998	Koros	D24/135
D399,955 S *	10/1998	Koros	D24/135
D428,148 S *	7/2000	Segermark	D24/135

D566,269 S *	4/2008	Koros	D24/135
D581,531 S *	11/2008	Alinsod	D24/135
2002/0183833 A1	12/2002	Stevens	
2009/0287062 A1	11/2009	Farley	
2010/0280586 A1	11/2010	Case	
2013/0158359 A1	6/2013	Prednick	

FOREIGN PATENT DOCUMENTS

EM	008628622-0001	*	8/2021
EM	008628622-0002	*	8/2021
GB	6150583	*	7/2021
GB	6150584	*	7/2021
GB	6150585	*	7/2021
GB	6150586	*	7/2021
WO	WO2017/027640		2/2017
WO	WO2020/061073		3/2020

OTHER PUBLICATIONS

DynaTrac Retractor Frame Ref#78001-HP (available at <https://mediflex.com/collections/table-mounted-retraction-systems/products>) accessed on Mar. 2, 2021 (4 pages).

* cited by examiner

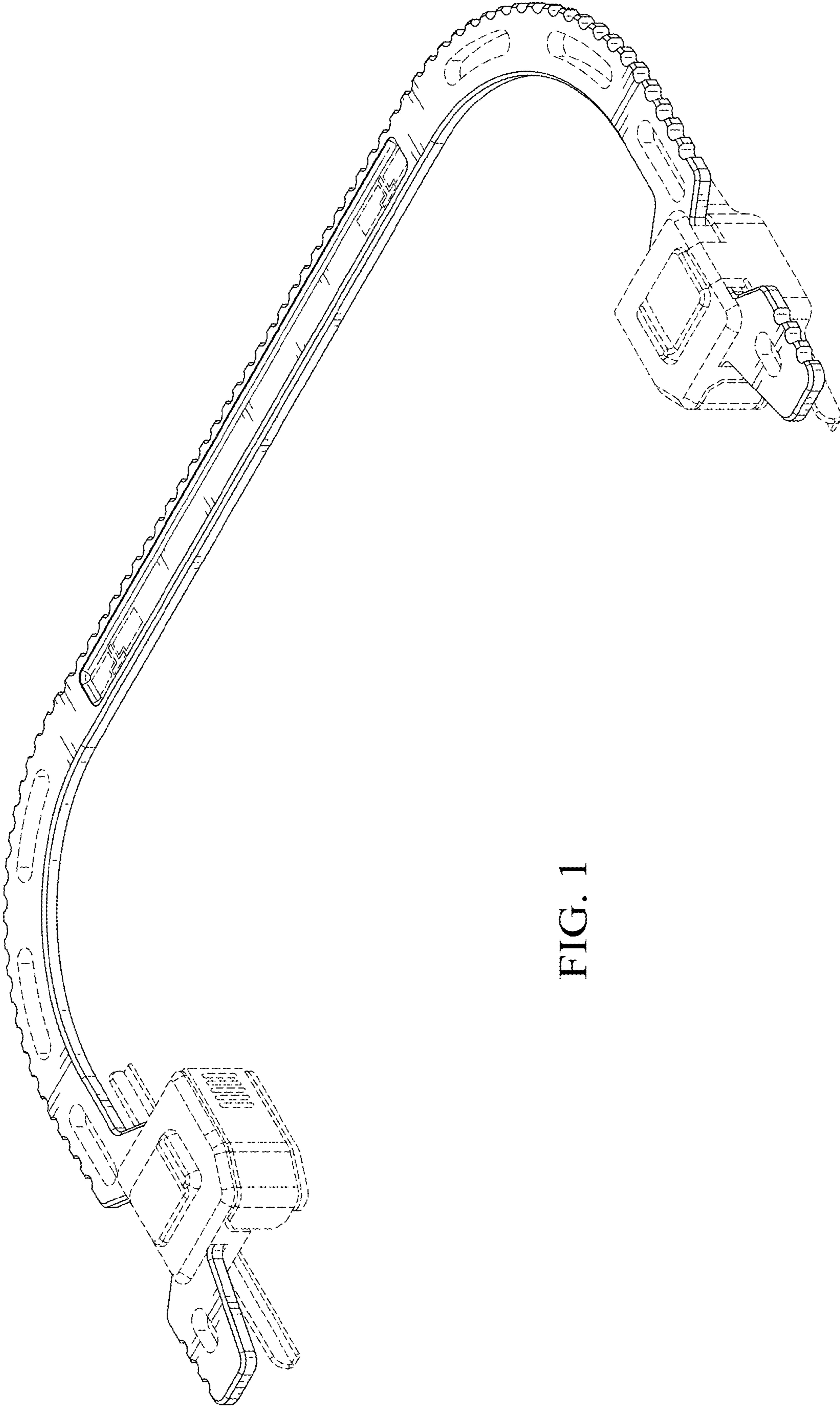


FIG. 1

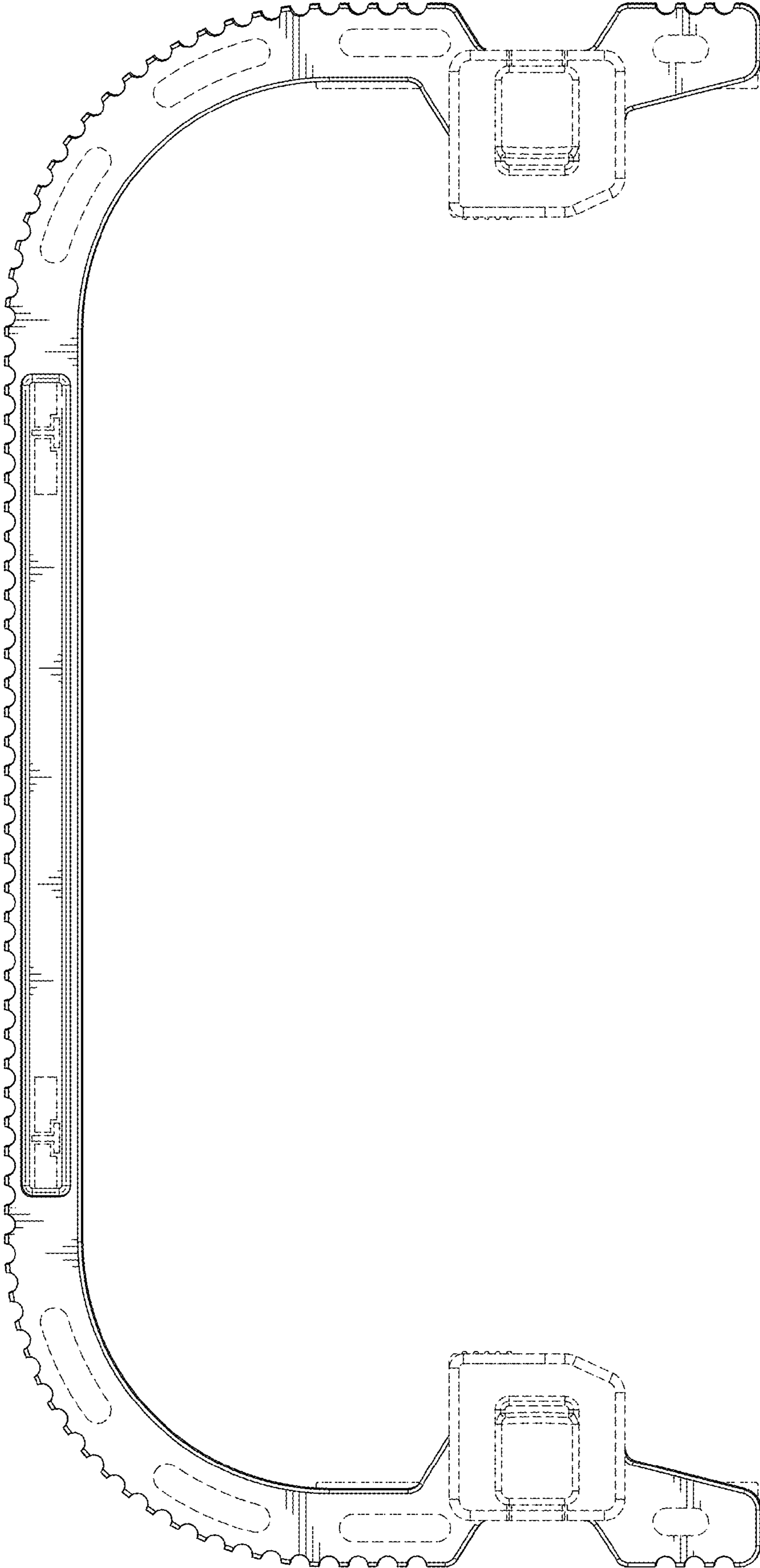


FIG. 2



FIG. 3

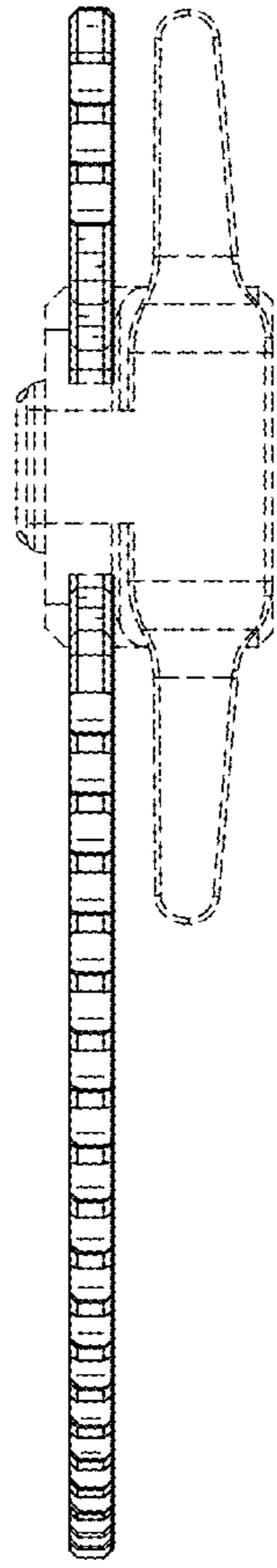


FIG. 4

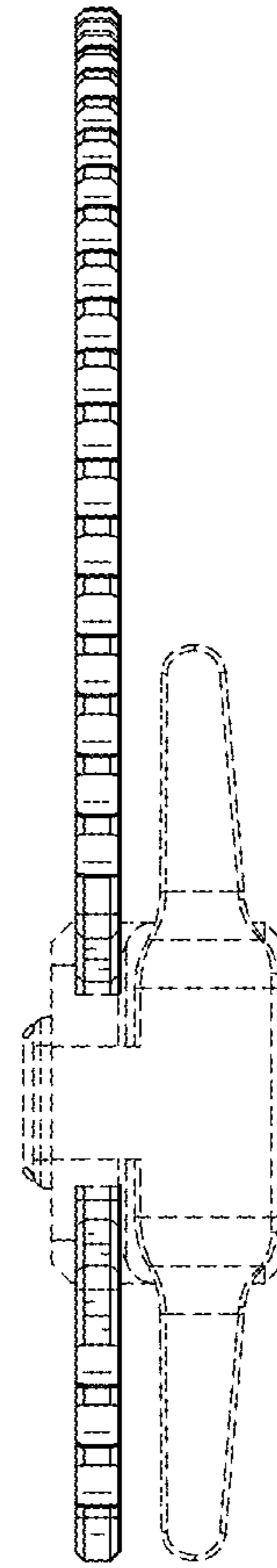


FIG. 5

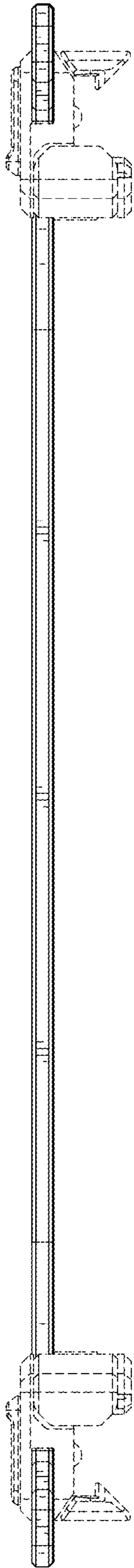


FIG. 6

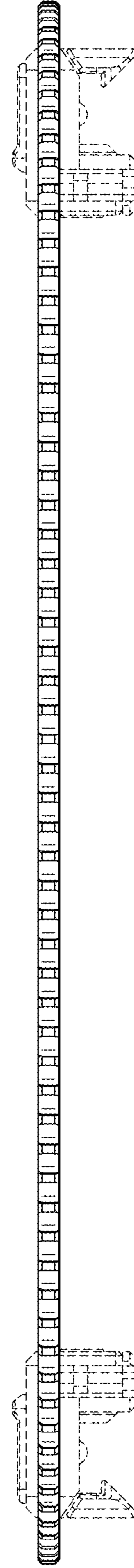


FIG. 7

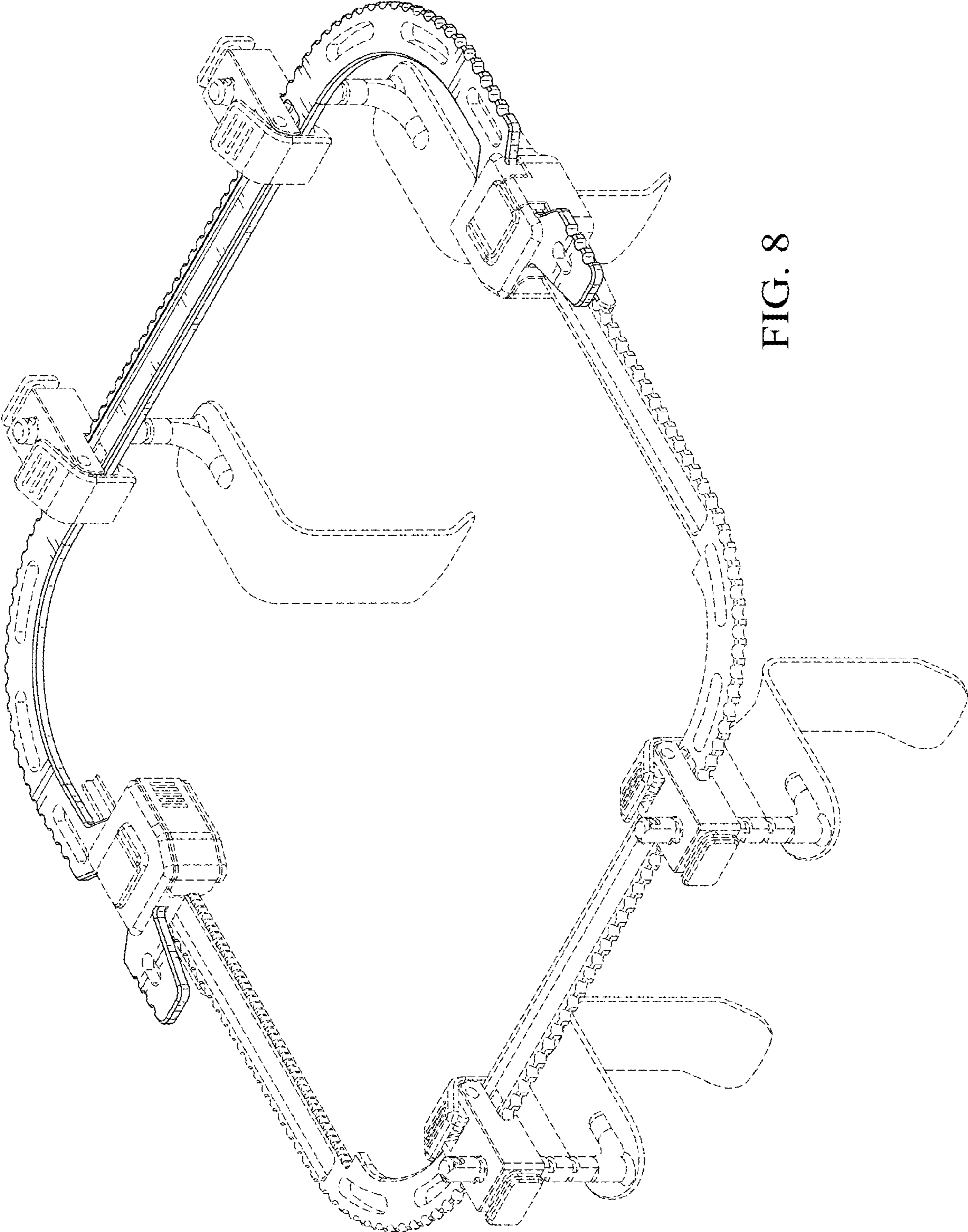


FIG. 8

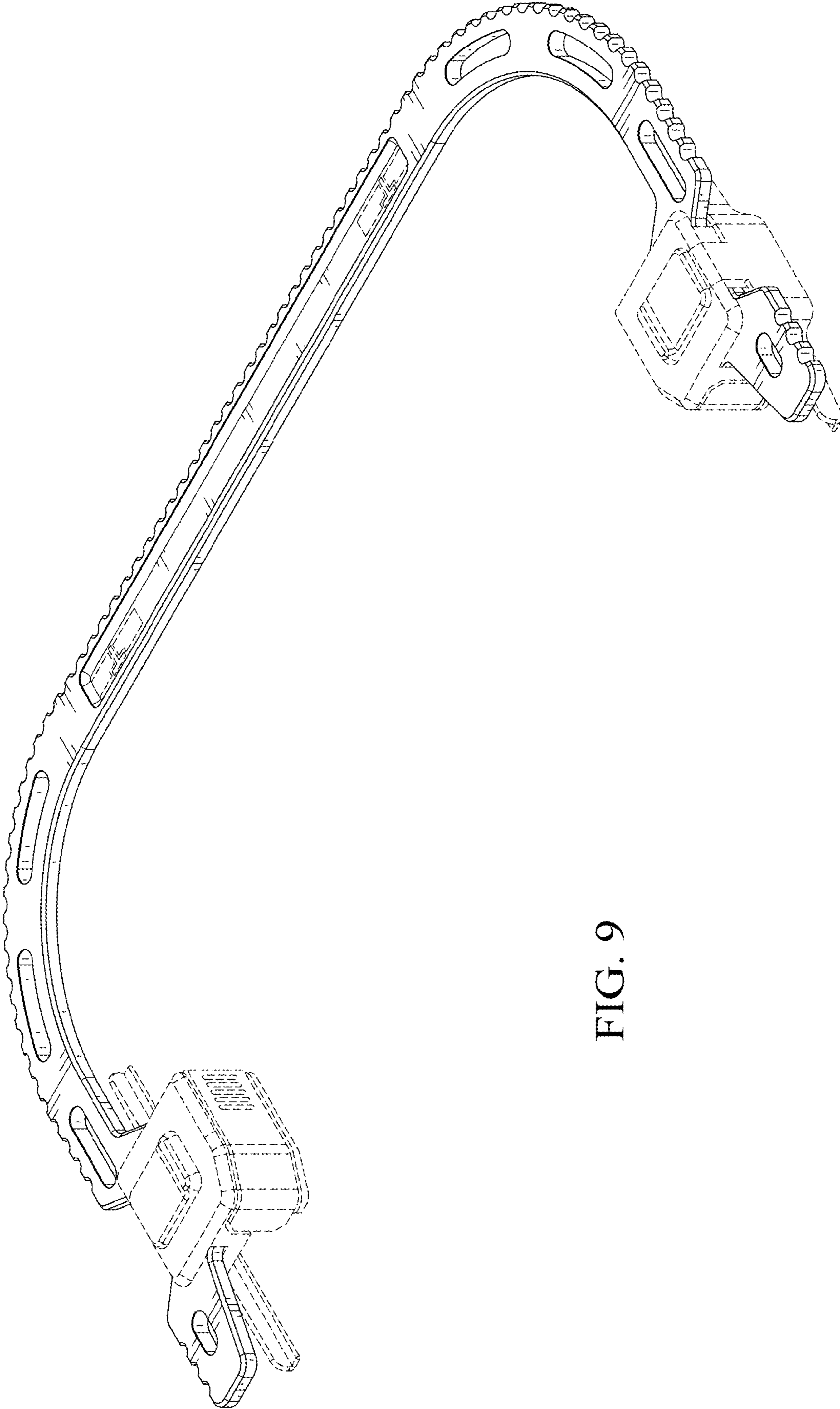


FIG. 9

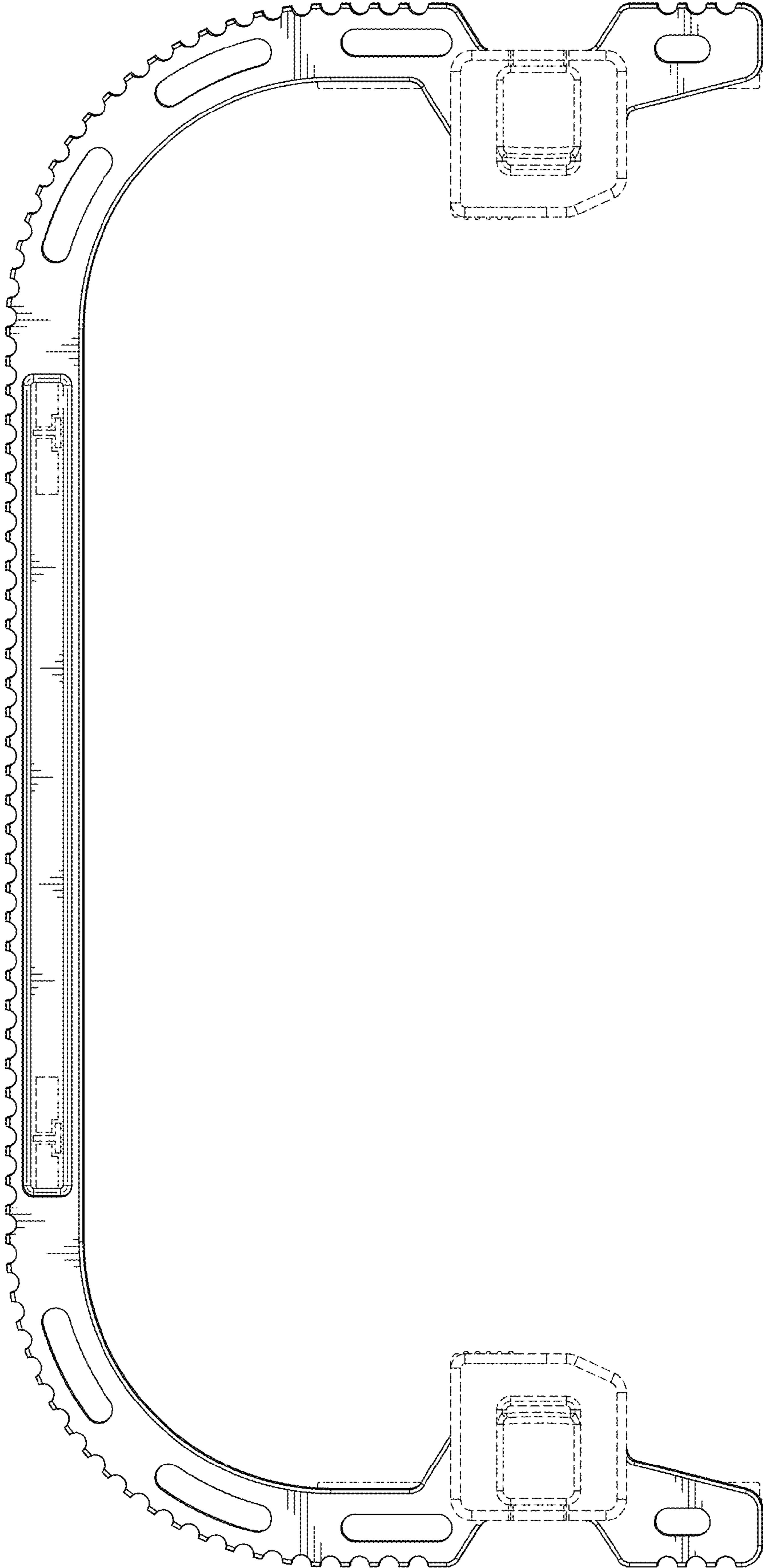


FIG. 10

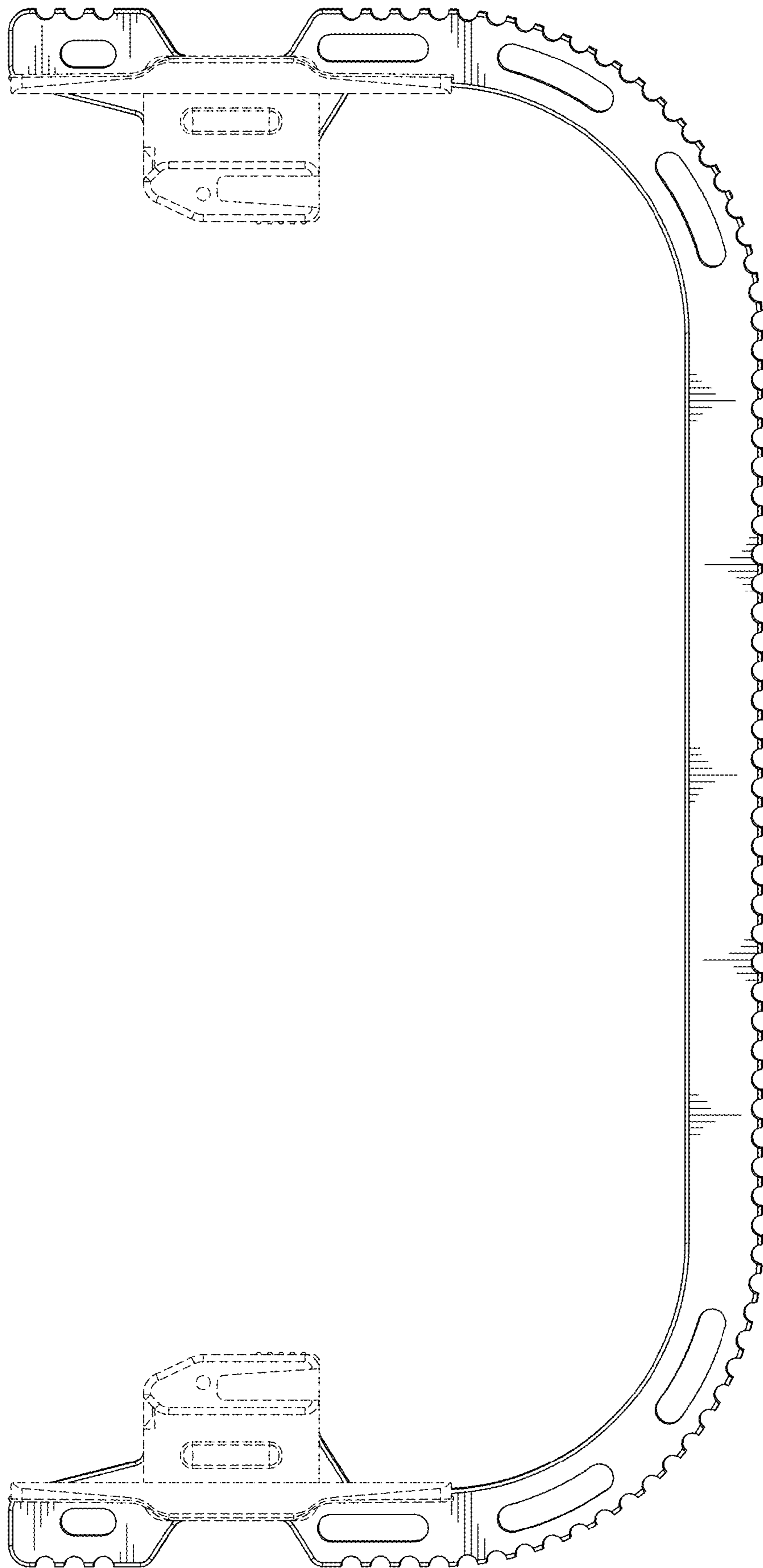


FIG. 11

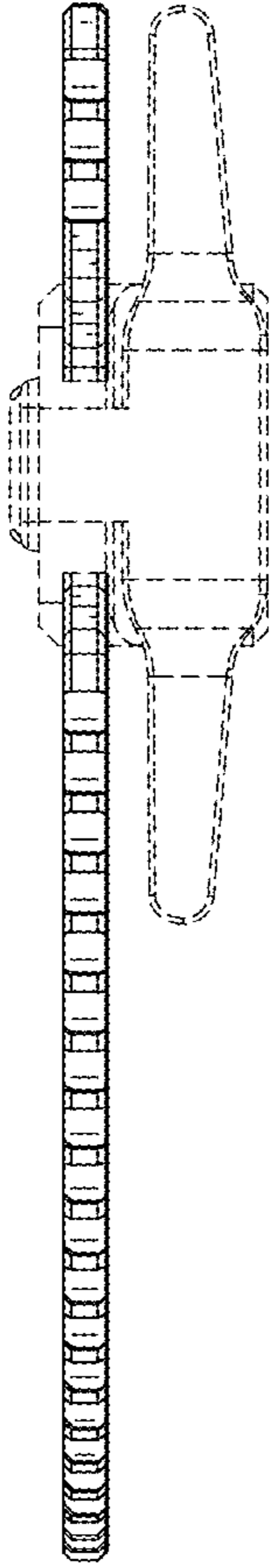


FIG. 12

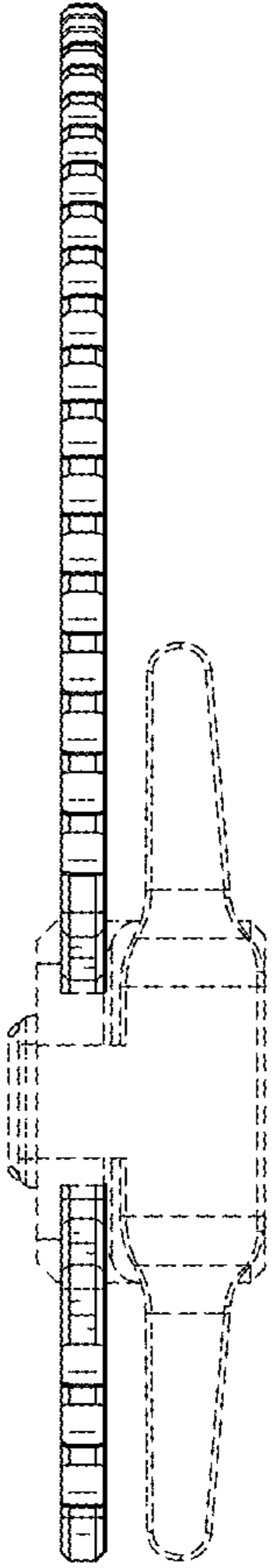


FIG. 13

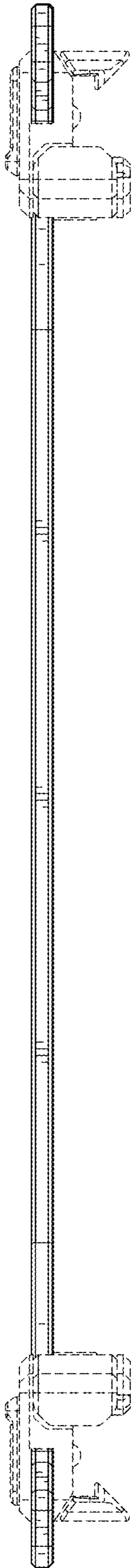


FIG. 14

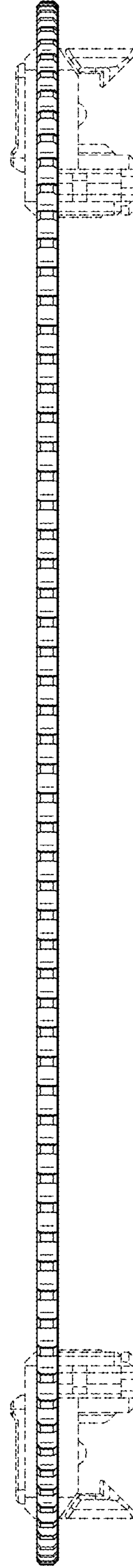


FIG. 15

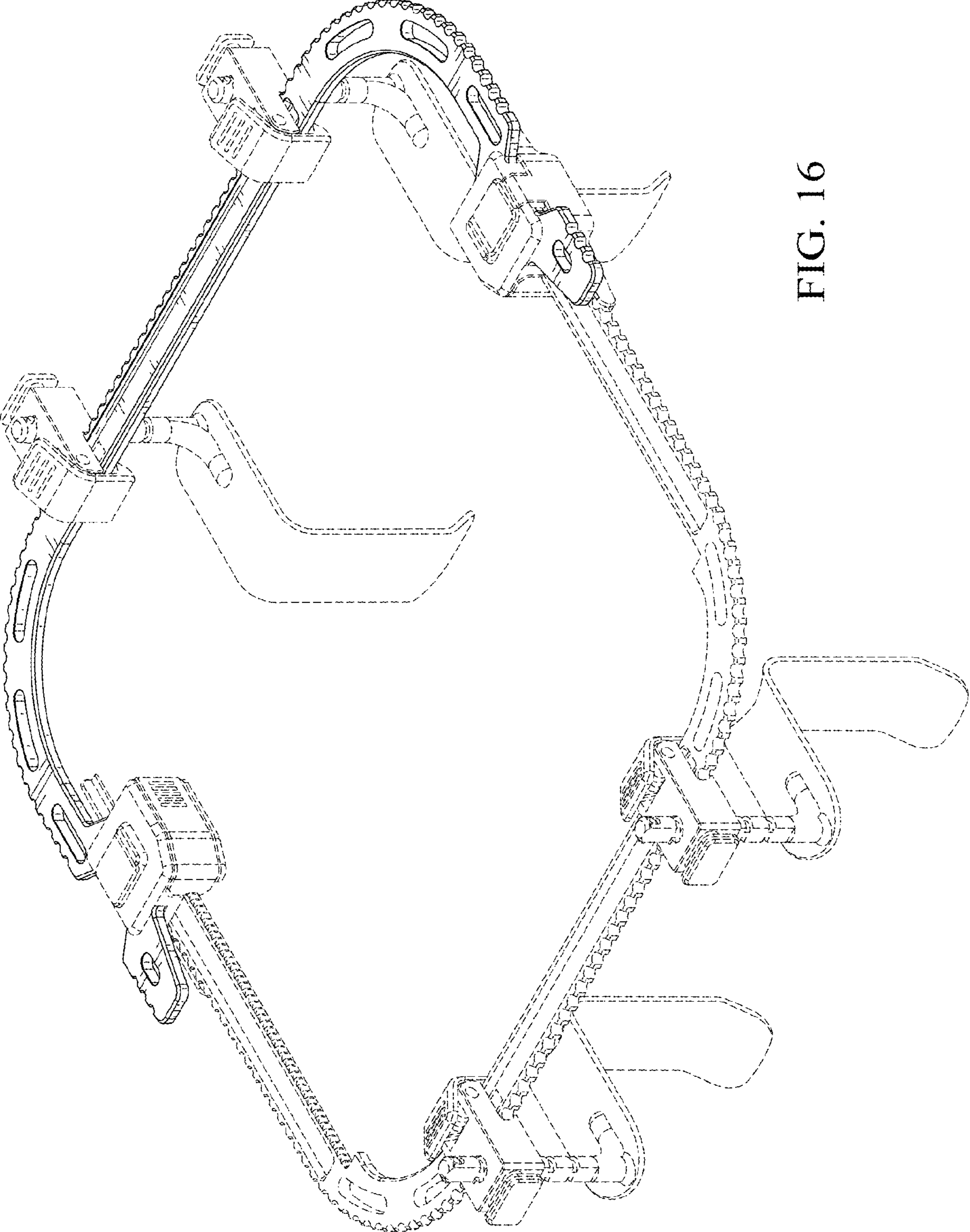


FIG. 16