



US00D931086S

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

(10) **Patent No.:** **US D931,086 S**

(45) **Date of Patent:** **\*\* Sep. 21, 2021**

- (54) **CABLE WINDING MACHINE** 3,000,588 A \* 9/1961 Brady ..... B65H 49/32  
242/388.8
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Tokyo (JP) 242/388.7
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**Noboru Kawaguchi,** Tokyo (JP); **Junji** D288,773 S \* 3/1987 Ward ..... D8/359  
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Tokyo (JP) 15/315
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Tokyo (JP) 5,622,333 A \* 4/1997 Jacques ..... B65H 75/241  
242/118.5
- (\*\*) Term: **15 Years** 5,897,075 A \* 4/1999 Elder ..... B65H 75/22  
242/608.2
- 6,179,239 B1 \* 1/2001 Linderoth ..... B65H 54/42  
242/125.1

(Continued)

(21) Appl. No.: **29/732,394**

(22) Filed: **Apr. 23, 2020**

(30) **Foreign Application Priority Data**

Nov. 1, 2019 (JP) ..... 2019-024464

(51) **LOC (13) Cl.** ..... **08-05**

(52) **U.S. Cl.**  
USPC ..... **D8/358; D15/138**

(58) **Field of Classification Search**  
USPC ..... D8/358, 359; D13/137.4; D14/433;  
D15/138, 199  
CPC ..... B65H 49/32; B65H 54/72; B65H 54/553;  
B65H 61/00; H02G 11/02; H02G 11/00  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 1,350,946 A \* 8/1920 Stockdale ..... B65H 49/30  
242/407.1
- 1,969,924 A \* 8/1934 Carter ..... B65H 75/24  
242/470
- 2,370,868 A \* 3/1945 Luebke ..... B65H 75/24  
242/407.1
- 2,983,465 A \* 5/1961 Skubal ..... B65H 75/24  
242/575.5

**FOREIGN PATENT DOCUMENTS**

SE 449076 A1 \* 10/1991

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PC

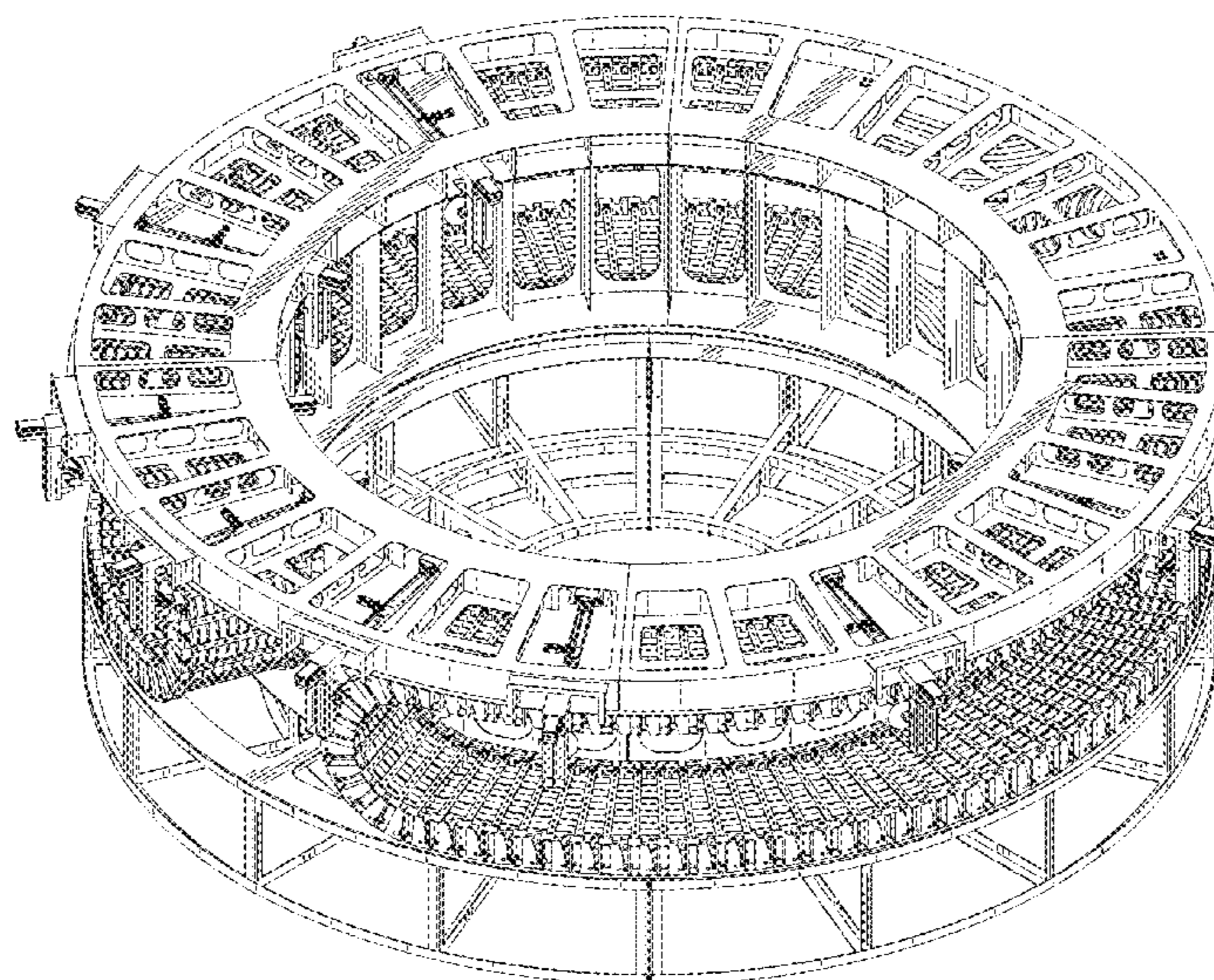
(57) **CLAIM**

The ornamental design for a cable winding machine, as shown and described.

**DESCRIPTION**

FIG. 1 is a front, top, and right side perspective view of a cable winding machine, showing our new design;  
FIG. 2 is a rear, bottom, and left side perspective view thereof;  
FIG. 3 is a front view thereof;  
FIG. 4 is a rear view thereof;  
FIG. 5 is a top view thereof;  
FIG. 6 is a bottom view thereof;  
FIG. 7 is a right side view thereof; and,  
FIG. 8 is a left side view thereof.

**1 Claim, 8 Drawing Sheets**



(56)

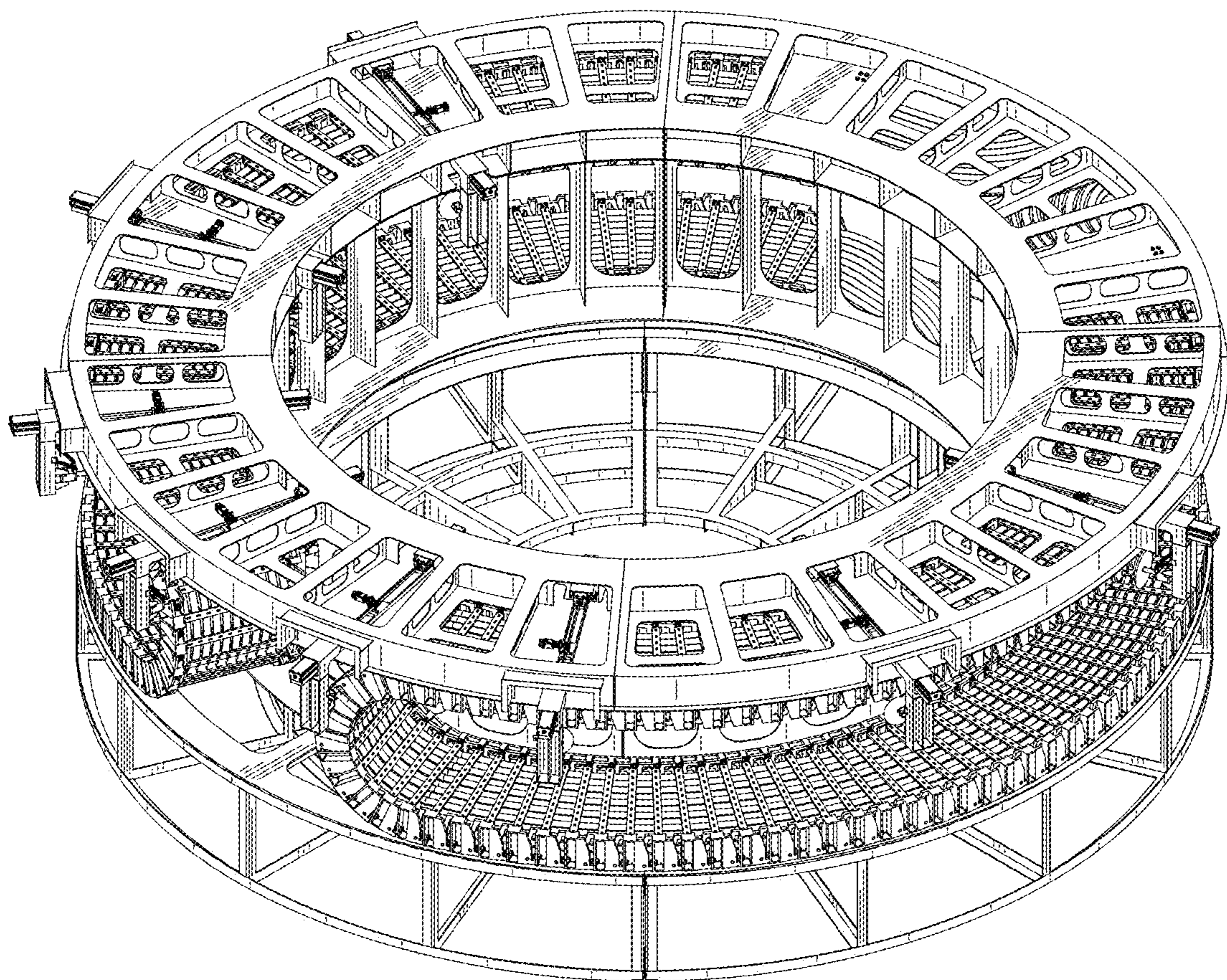
References Cited

U.S. PATENT DOCUMENTS

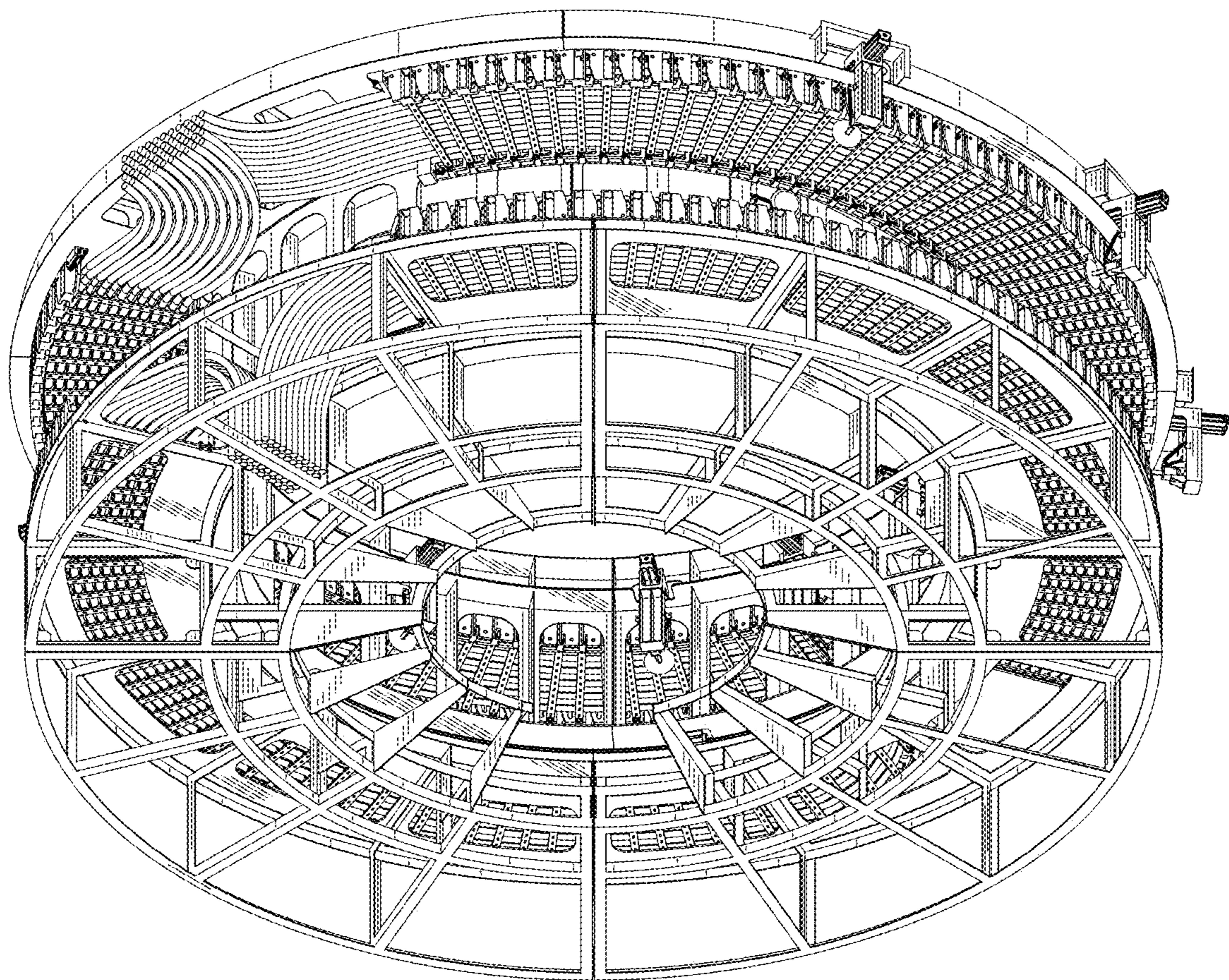
6,199,786 B1 *	3/2001	Lessard .....	B65H 49/30 242/396.9	D705,643 S *	5/2014	Siboni .....	D8/358
6,494,397 B1 *	12/2002	Myklebust .....	B65H 54/54 242/399.1	D741,149 S *	10/2015	Koop .....	D8/356
6,543,713 B1 *	4/2003	Frolander .....	B65H 49/32 242/397.2	D741,693 S *	10/2015	Penumatcha .....	B65H 75/14 D8/358
6,715,710 B1 *	4/2004	Russell .....	B65H 75/18 242/605	10,377,327 B1 *	8/2019	Katoh .....	H02G 11/00
6,991,197 B2 *	1/2006	Cox .....	B65H 75/14 242/608.3	2002/0063185 A1 *	5/2002	Shields .....	B65H 75/146 242/594.3
7,222,818 B2 *	5/2007	Couchey .....	B65H 75/18 242/611	2003/0098383 A1 *	5/2003	Luo .....	B23K 9/1333 242/559
D557,118 S *	12/2007	Linginfelter .....	D8/358	2006/0086863 A1 *	4/2006	Couchey .....	B65H 75/30 242/610.6
D598,733 S *	8/2009	Taatjes .....	D8/358	2008/0048063 A1 *	2/2008	Wells .....	B65H 49/32 242/557
8,074,916 B2 *	12/2011	Penumatcha .....	B65H 75/146 242/604	2016/0194178 A1 *	7/2016	Braack .....	B65H 49/32 242/388.8
D702,536 S *	4/2014	Penumatcha .....	B65H 75/146 D8/358	2019/0144237 A1 *	5/2019	Sigmon .....	B65H 75/28 242/473.8
				2021/0122597 A1 *	4/2021	Hernando Saiz .....	B65H 67/00

\* cited by examiner

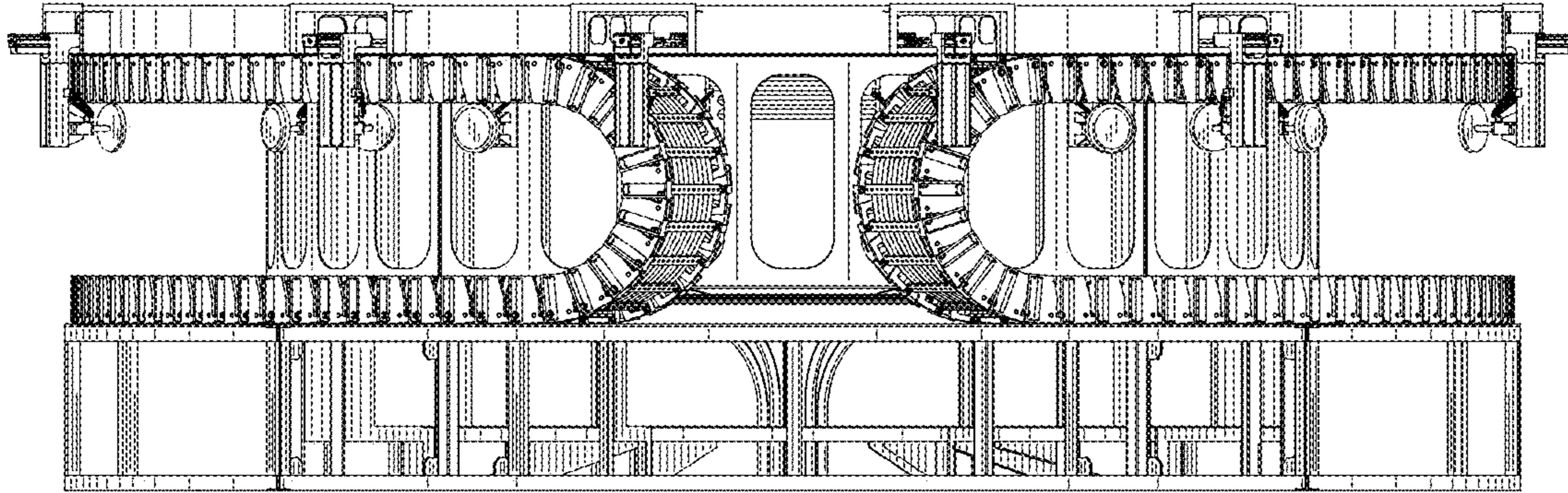
**FIG. 1**



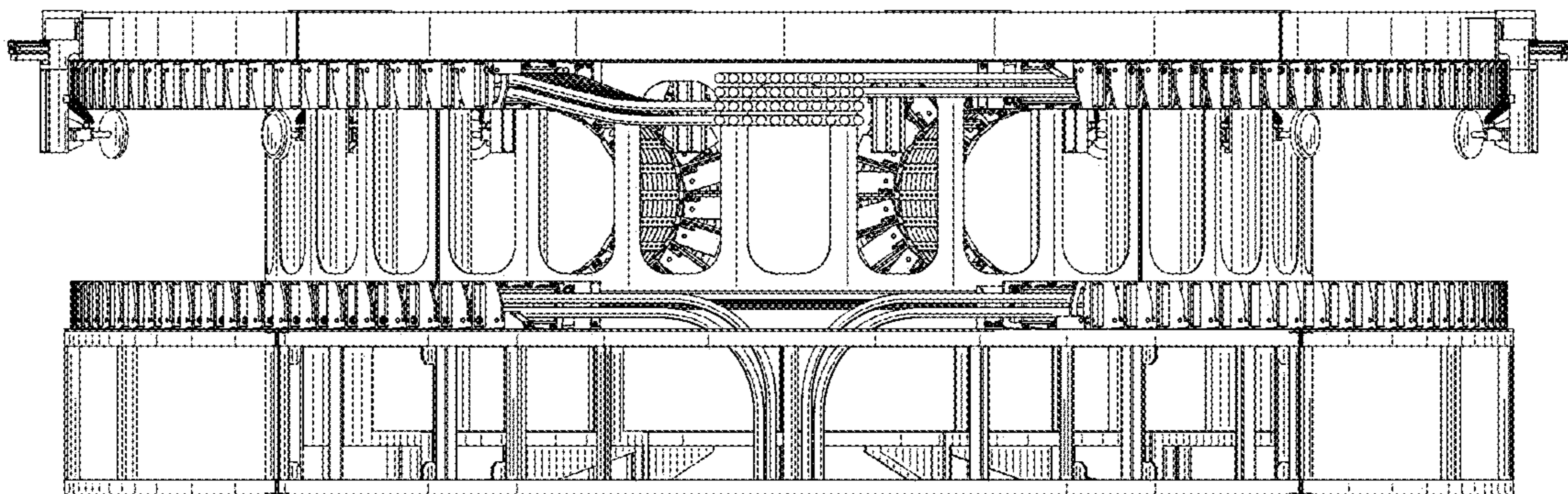
*FIG. 2*



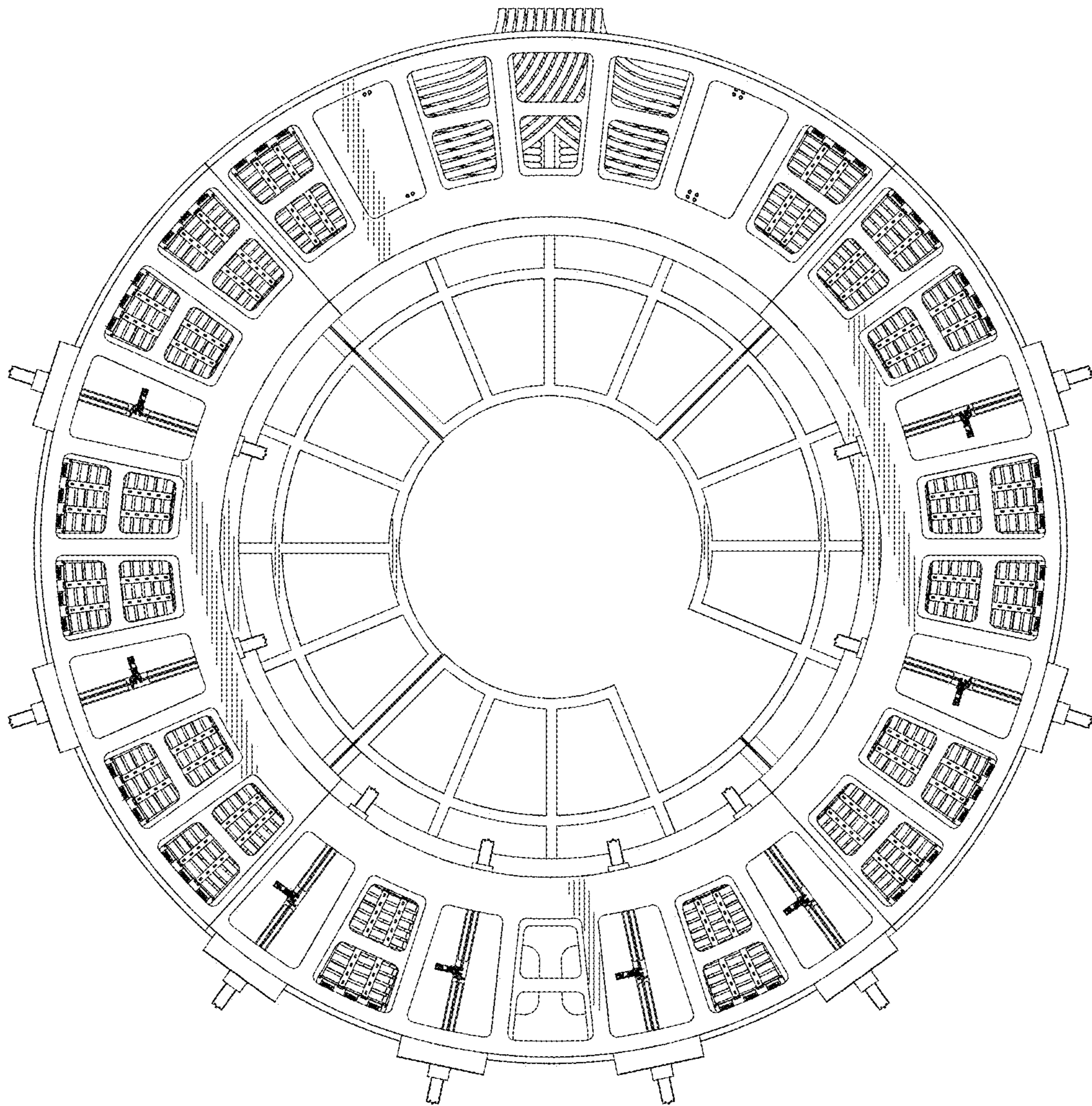
*FIG. 3*



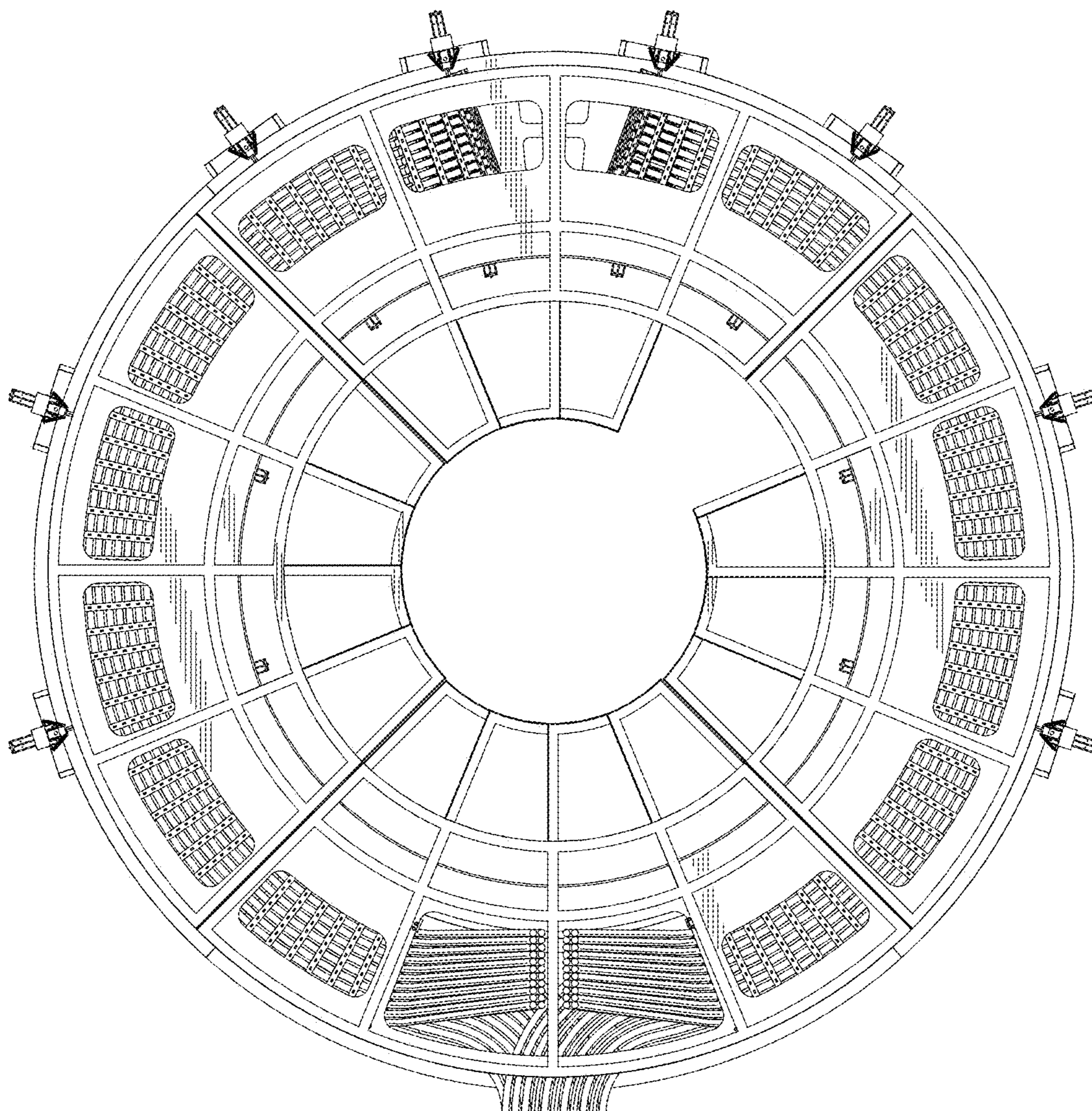
*FIG. 4*



**FIG. 5**

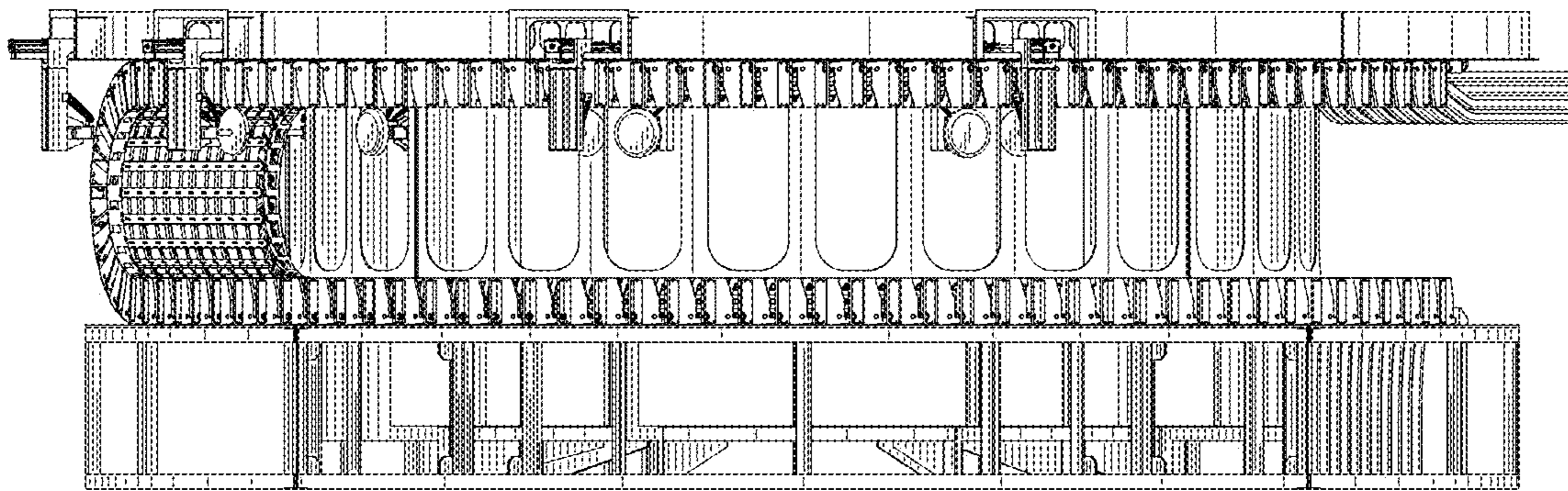


**FIG. 6**





*FIG. 7*



*FIG. 8*

