



US00D712437S

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

(10) **Patent No.:** **US D712,437 S**  
(45) **Date of Patent:** **\*\* Sep. 2, 2014**

- (54) **SEED DISC**
- (71) Applicant: **Kinze Manufacturing, Inc.**,  
Williamsburg, IA (US)
- (72) Inventors: **Matthew J. Wilhelmi**, Parnell, IA (US);  
**Kale J. Brockmann**, Walcott, IA (US)
- (73) Assignee: **Kinze Manufacturing, Inc.**,  
Williamsburg, IA (US)
- (\*\*) Term: **14 Years**
- (21) Appl. No.: **29/470,383**
- (22) Filed: **Oct. 21, 2013**

**Related U.S. Application Data**

- (63) Continuation of application No. 13/829,726, filed on  
Mar. 14, 2013.
- (51) **LOC (10) Cl.** ..... **15-03**
- (52) **U.S. Cl.**  
USPC ..... **D15/28**
- (58) **Field of Classification Search**  
CPC ..... A01C 7/04; A01C 7/06; A01C 7/128;  
A01C 7/12; A01C 7/08; A01C 9/00; A01C  
7/00; A01C 7/046; A01C 5/00  
USPC ..... D15/11-13, 17, 21, 27, 28, 29;  
111/185, 200, 177, 183; 221/266, 265,  
221/277  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 4,047,638 A \* 9/1977 Harrer et al. .... 221/266
- 4,600,122 A \* 7/1986 Lundie et al. .... 221/211
- 4,664,290 A \* 5/1987 Martin et al. .... 221/211
- 5,058,766 A \* 10/1991 Deckler ..... 221/254

- 5,392,707 A \* 2/1995 Romans ..... 111/185
- 5,535,917 A \* 7/1996 Ribouleau ..... 221/211
- 5,542,364 A \* 8/1996 Romans ..... 111/185
- 6,044,779 A \* 4/2000 Brown et al. .... 111/185
- 6,634,522 B2 \* 10/2003 Hak ..... 221/265
- 6,718,892 B1 \* 4/2004 Rosenboom ..... 111/185
- 6,739,272 B2 \* 5/2004 Crabb et al. .... 111/185
- 6,742,465 B2 \* 6/2004 Crabb et al. .... 111/185
- 6,776,108 B2 \* 8/2004 Crabb et al. .... 111/185
- 6,932,236 B2 \* 8/2005 Ven Huizen ..... 221/211
- 7,083,067 B2 \* 8/2006 Hak ..... 221/265
- 7,228,807 B1 \* 6/2007 VenHuizen ..... 111/174
- 7,404,366 B2 \* 7/2008 Mariman ..... 111/185
- 7,661,377 B2 \* 2/2010 Keaton et al. .... 111/185
- 8,371,239 B2 \* 2/2013 Rans et al. .... 111/185
- 8,371,240 B2 \* 2/2013 Wollenhaupt et al. .... 111/185
- 2002/0066743 A1 \* 6/2002 Hak ..... 221/263
- 2004/0112913 A1 \* 6/2004 Hak ..... 221/266
- 2005/0204971 A1 \* 9/2005 VenHuizen ..... 111/185
- 2005/0204972 A1 \* 9/2005 Eben et al. .... 111/185
- 2006/0266269 A1 \* 11/2006 Eben et al. .... 111/185
- 2007/0125284 A1 \* 6/2007 Mariman ..... 111/167

(Continued)

*Primary Examiner* — Mark Goodwin

(74) *Attorney, Agent, or Firm* — McKee, Voorhees & Sease

(57) **CLAIM**

We claim the ornamental design for a seed disc, substantially as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a seed disc showing our new design;

FIG. 2 is a front elevation view thereof;

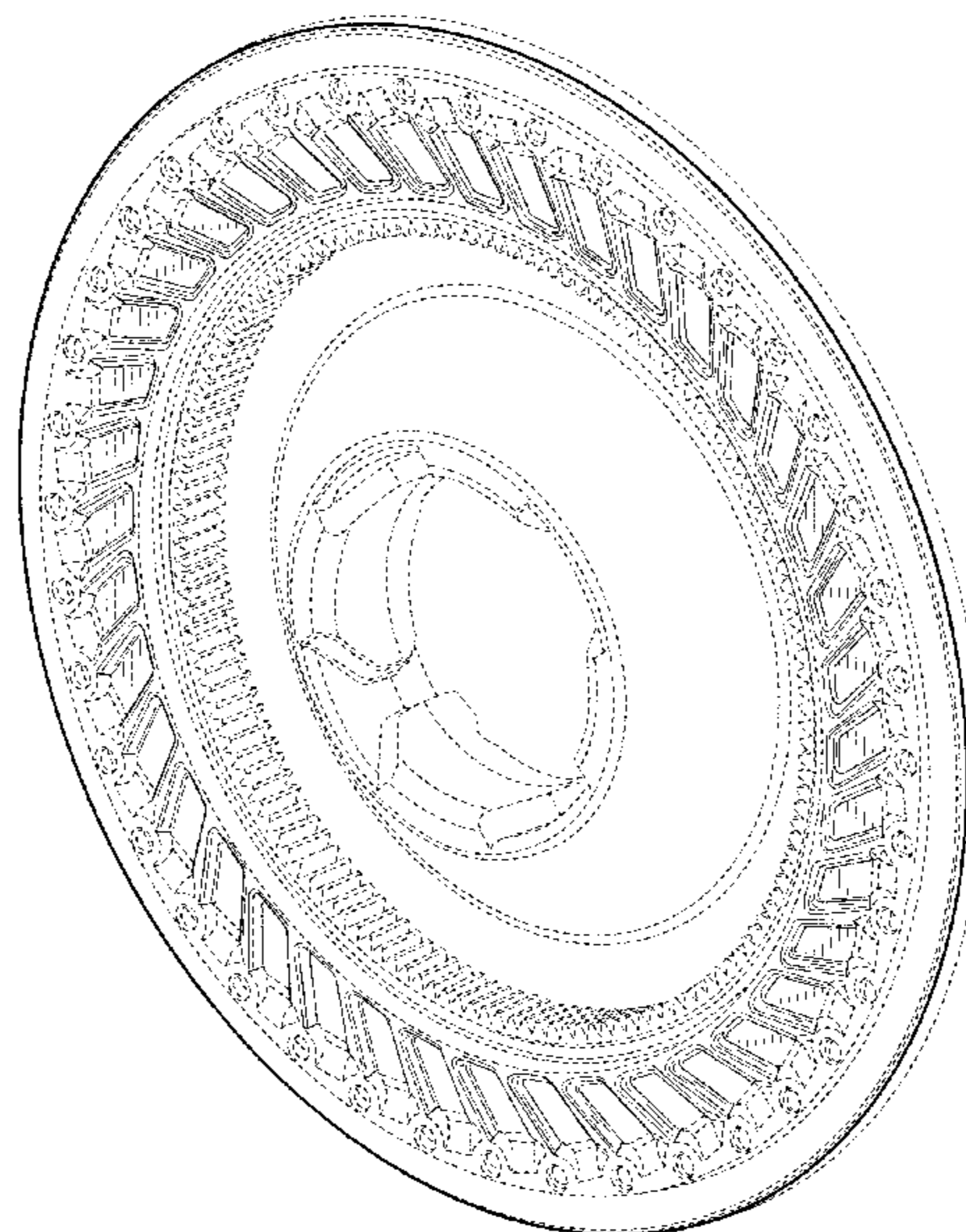
FIG. 3 is a rear elevation view thereof;

FIG. 4 is a right side elevation view thereof; and,

FIG. 5 is a sectional view thereof taken along line 5-5 of FIG. 2.

The broken line portions of the drawings are for illustrative purposes only and form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**



# US D712,437 S

Page 2

---

(56)

## References Cited

### U.S. PATENT DOCUMENTS

2010/0116185 A1*	5/2010	Keaton et al. ....	111/200	
2010/0282141 A1*	11/2010	Wollenhaupt et al. ....	111/118	* cited by examiner
2010/0282147 A1*	11/2010	Wollenhaupt et al. ....	111/200	
2011/0271887 A1*	11/2011	Shoup .....	111/178	
2012/0186505 A1*	7/2012	Gilstring .....	111/179	

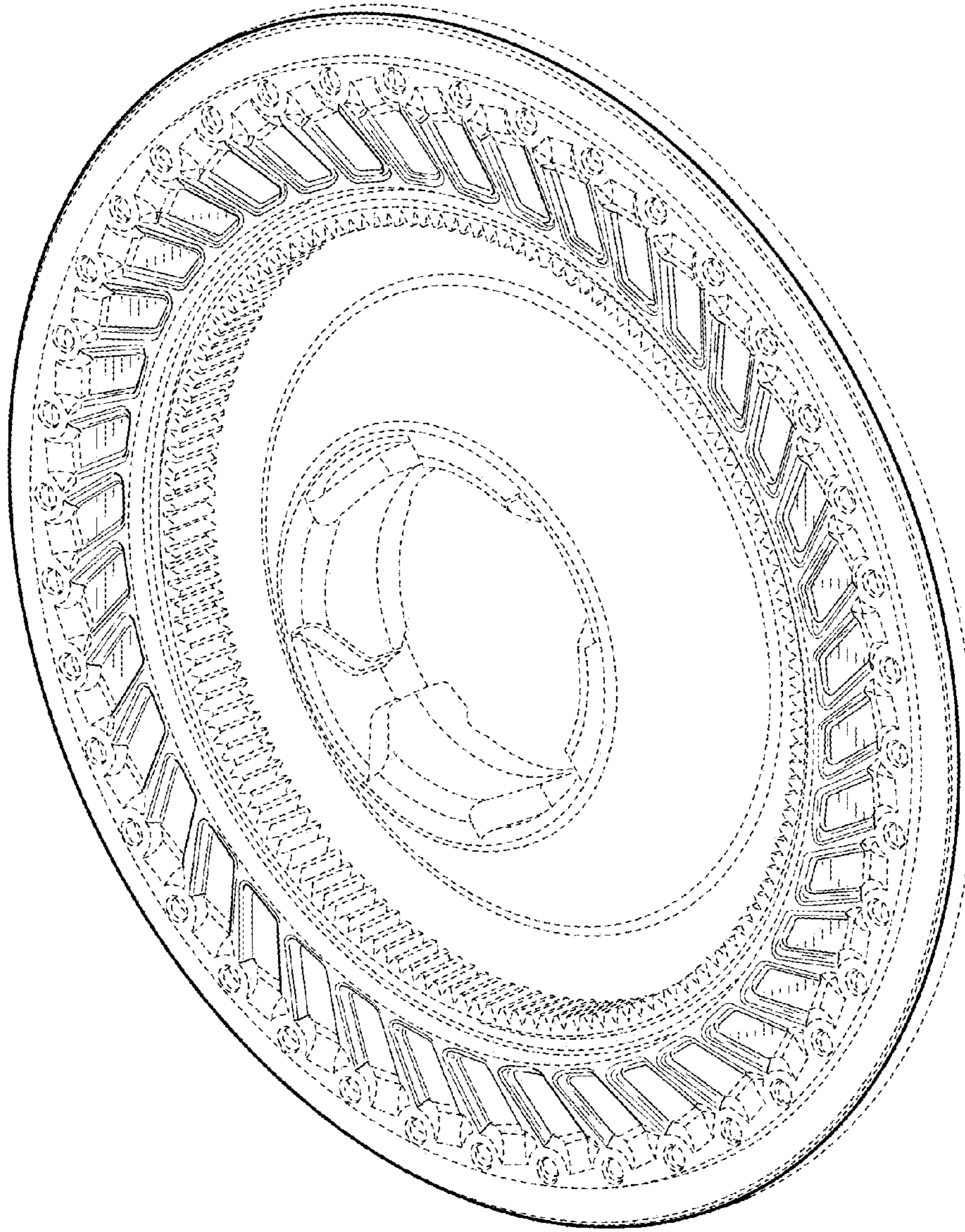


FIG. 1

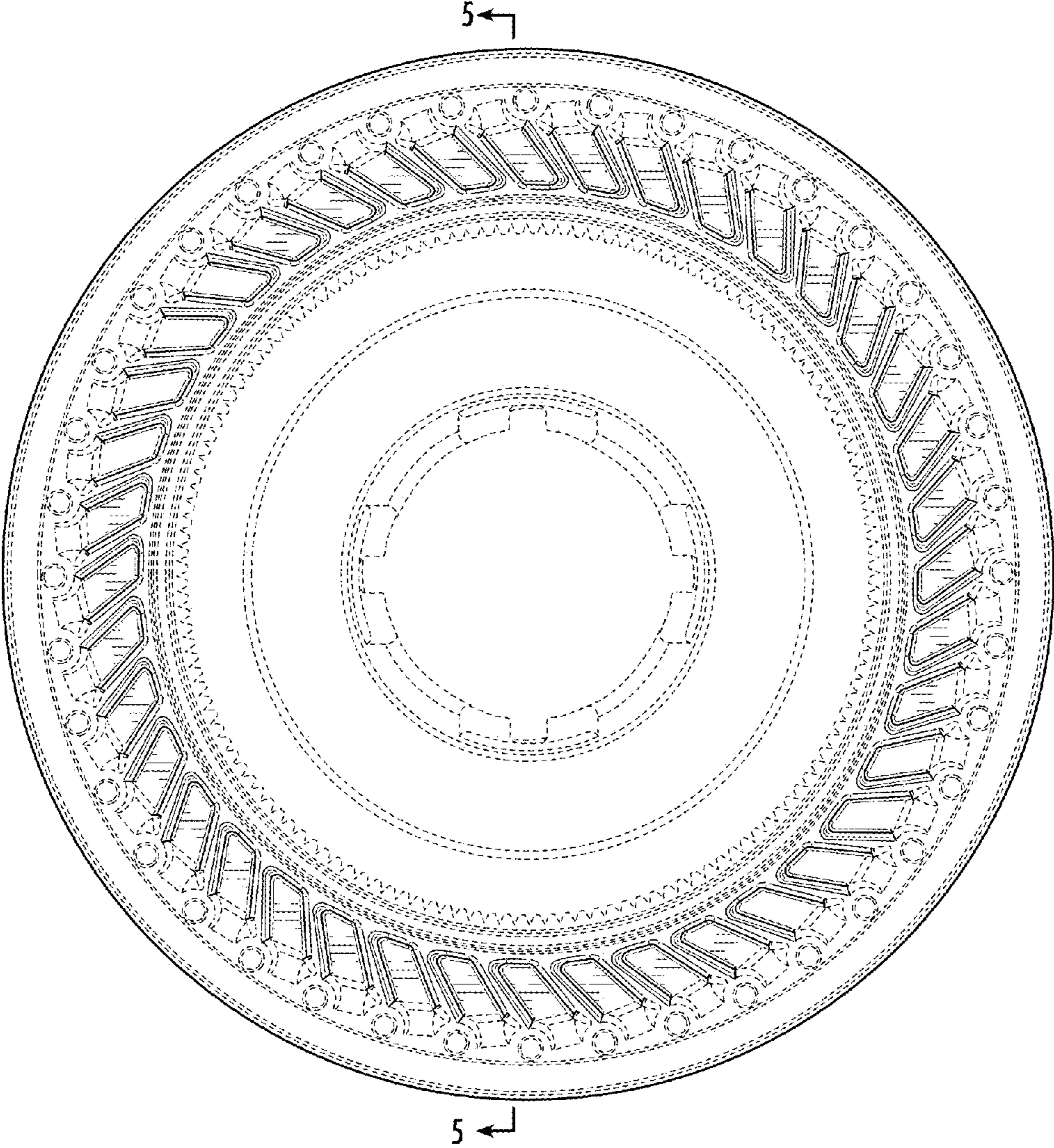


FIG. 2

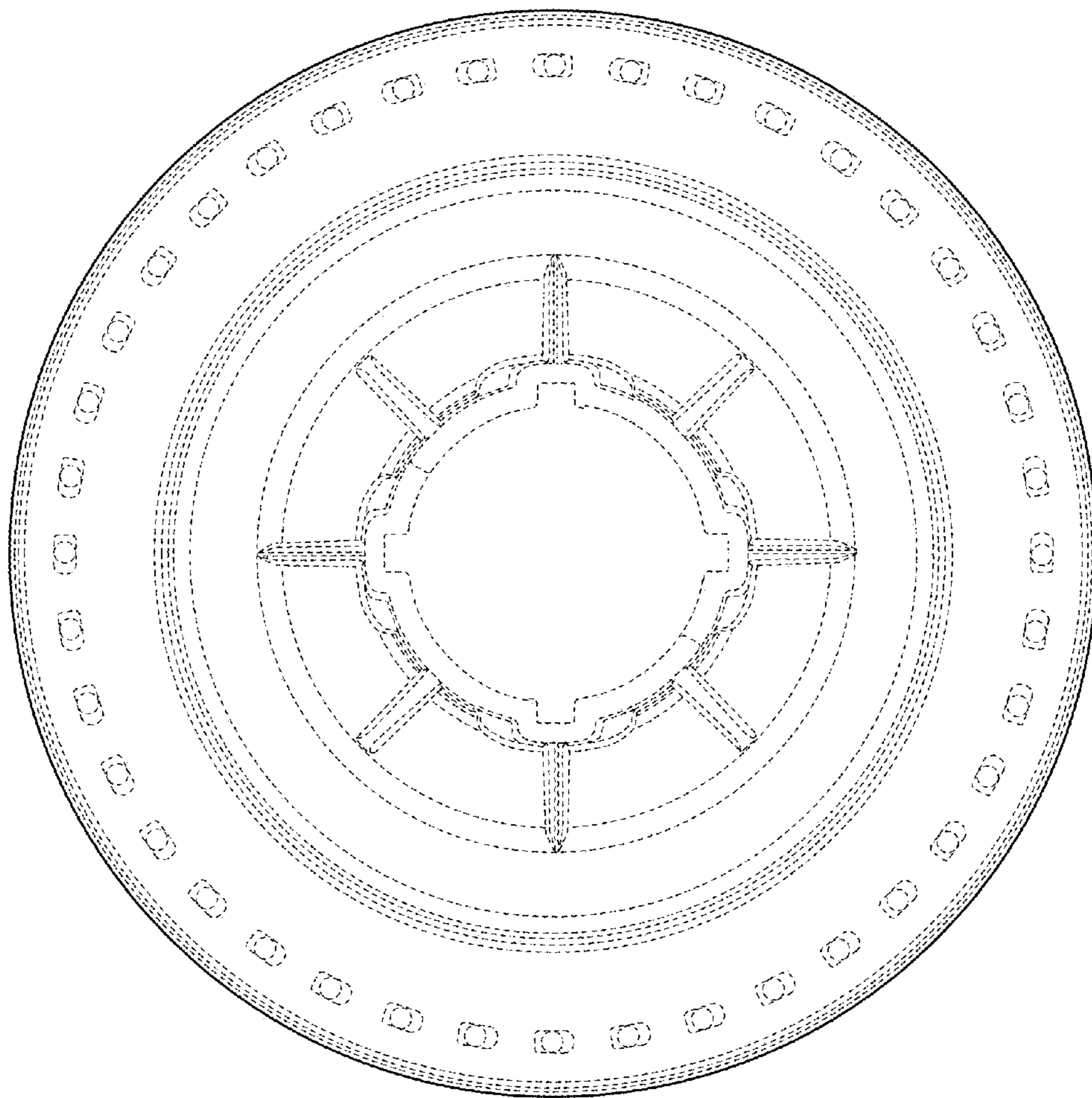


FIG. 3

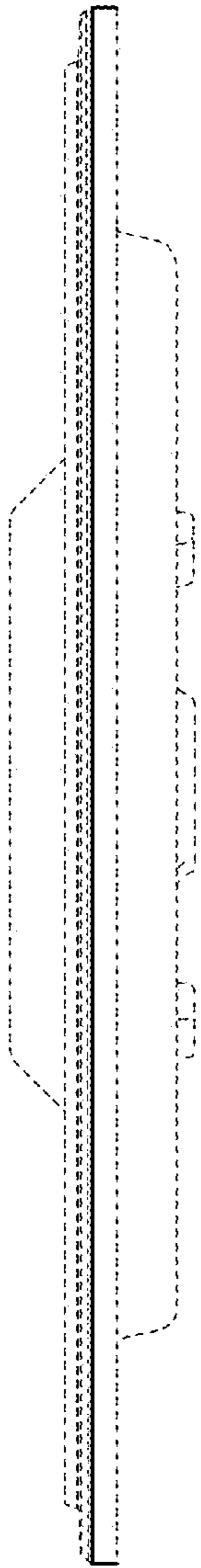


FIG. 4

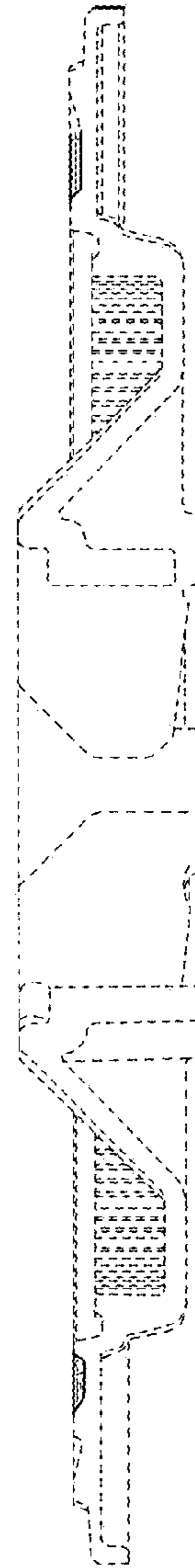


FIG. 5