



US00D875514S

(12) **United States Design Patent**  
**Zhang**

(10) **Patent No.:** **US D875,514 S**

(45) **Date of Patent:** **\*\* Feb. 18, 2020**

- (54) **CONCRETE SCREW WITH RING GROOVE**
- (71) Applicant: **NINGBO ANCHOR FASTENERS INDUSTRIAL CO., LTD., Yuyao (CN)**
- (72) Inventor: **Jinqing Zhang, Yuyao (CN)**
- (73) Assignee: **Ningbo Anchor Fasteners Industrial Co., Ltd., Zhangting, Yuyao, Zhe Jiang Province (CN)**
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/633,665**
- (22) Filed: **Jan. 15, 2018**
- (51) **LOC (12) Cl.** ..... **08-08**
- (52) **U.S. Cl.**  
USPC ..... **D8/387**
- (58) **Field of Classification Search**  
USPC ..... D8/385, 387, 388, 391, 392  
CPC .. F16B 23/00; F16B 23/0007; F16B 23/0015;  
F16B 23/003; F16B 23/0038; F16B  
23/0046; F16B 23/0061; F16B 25/0052;  
F16B 25/00; F16B 25/0015; F16B  
25/0026; F16B 25/0031; F16B 25/0042;  
F16B 33/00; F16B 33/002; F16B 35/005;  
F16B 39/282; Y10S 411/91; Y10S  
411/914; Y10S 411/919  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 1,683,501 A \* 9/1928 Tobeler ..... B21D 45/006  
279/76
- 1,802,560 A \* 4/1931 Kerwin ..... F16B 25/0026  
408/222
- D390,451 S \* 2/1998 Dominguez ..... D8/387
- 6,296,433 B1 \* 10/2001 Forsell ..... F16B 25/00  
411/386

- 6,619,899 B1 \* 9/2003 Gaudron ..... F16B 25/0026  
411/386
- 6,976,818 B2 \* 12/2005 Levey ..... F16B 33/02  
411/310
- D584,137 S \* 1/2009 Edge, Jr. .... D8/387
- D604,600 S \* 11/2009 Lesesky ..... D8/387
- D726,531 S \* 4/2015 Muzic ..... D8/387
- D760,582 S \* 7/2016 Muzic ..... D8/387
- 9,523,383 B2 \* 12/2016 Park ..... F16B 25/0057
- D818,807 S \* 5/2018 Gomez Garcia ..... D8/387
- 2002/0114682 A1 \* 8/2002 Forster ..... F16B 25/00  
411/411
- 2003/0053883 A1 \* 3/2003 Forster ..... F16B 35/06  
411/161
- 2003/0185649 A1 \* 10/2003 Mizuno ..... F16B 33/02  
411/411
- 2005/0191150 A1 \* 9/2005 Bickford ..... F16B 25/0031  
411/307

(Continued)

*Primary Examiner* — Sandra S Snapp

*Assistant Examiner* — Ieisha N Price

(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

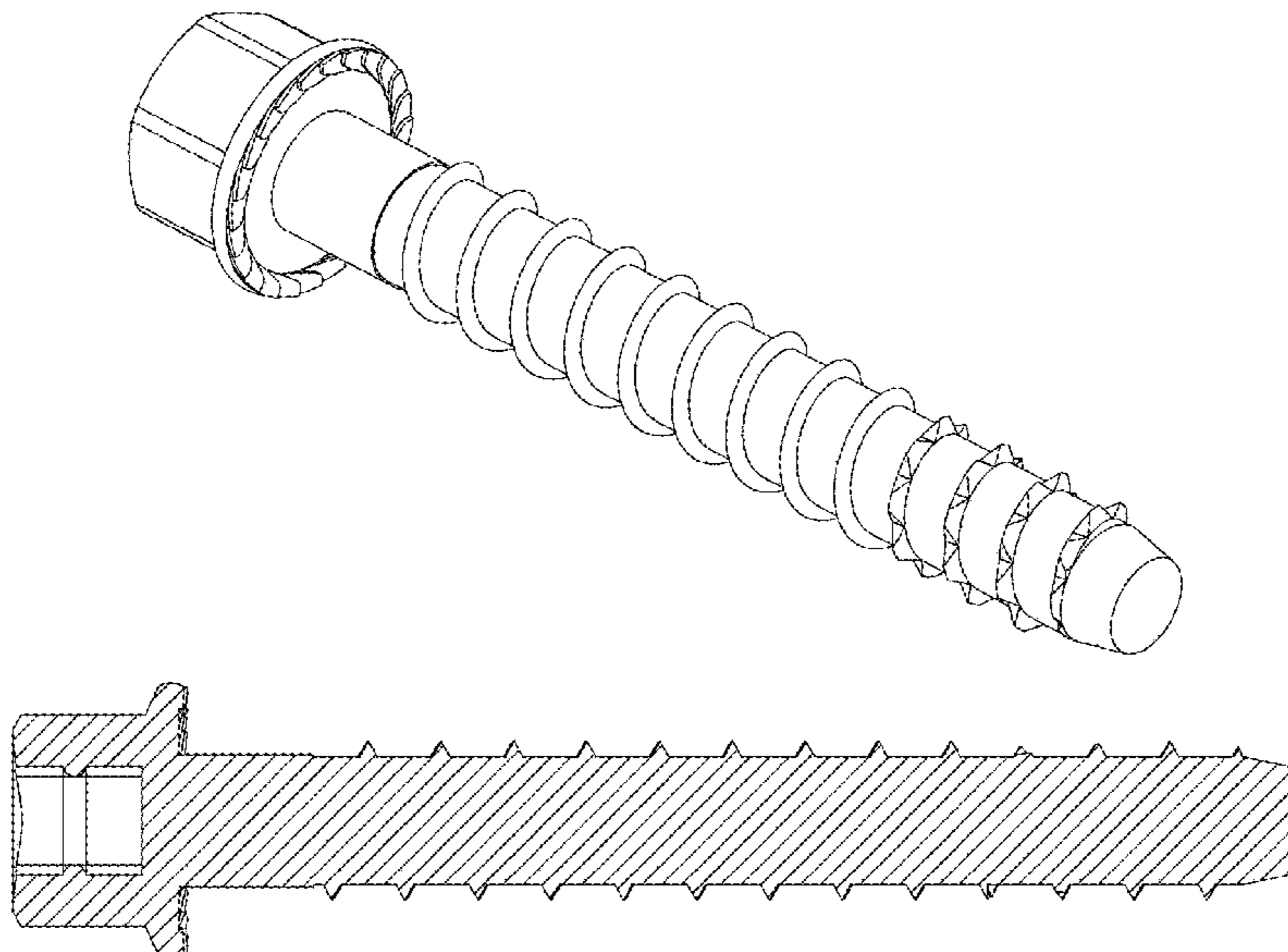
(57) **CLAIM**

The ornamental design for a concrete screw with ring groove, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevational view of a concrete screw with ring groove showing my new design;  
 FIG. 2 is a rear elevational view thereof;  
 FIG. 3 is a left side elevational view thereof;  
 FIG. 4 is a right side elevational view thereof;  
 FIG. 5 is a top plan view thereof;  
 FIG. 6 is a bottom plan view thereof;  
 FIG. 7 is a bottom perspective view thereof;  
 FIG. 8 is a top perspective view thereof; and,  
 FIG. 9 is a cross-sectional view thereof, taken along line 9-9 of FIG. 5.

**1 Claim, 9 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2006/0120826	A1*	6/2006	Wieser .....	F16B 25/0026	2010/0247267	A1*	9/2010	Bianchi .....	F16B 25/00
				411/387.4					411/387.4
2007/0297873	A1*	12/2007	Wieser .....	F16B 1/0071	2011/0027035	A1*	2/2011	Rosenkranz .....	F16B 1/0071
				411/411					411/8
2008/0019793	A1*	1/2008	Rosenkranz .....	F16B 25/0026	2011/0076112	A1*	3/2011	Huang .....	F16B 25/00
				411/82.5					411/412
2008/0050198	A1*	2/2008	Ayrle .....	F16B 13/002	2011/0142569	A1*	6/2011	Hagel .....	F16B 25/00
				411/386					411/411
2008/0145182	A1*	6/2008	Gstach .....	F16B 25/00	2011/0188966	A1*	8/2011	Tsai .....	F16B 35/04
				411/403					411/412
2009/0022568	A1*	1/2009	Becker .....	F16B 25/00	2013/0058735	A1*	3/2013	Yu .....	F16B 25/0026
				411/386					411/386
2009/0092463	A1*	4/2009	Oberndorfer .....	F16B 25/0026	2013/0302111	A1*	11/2013	Shih .....	F16B 25/0026
				411/386					411/387.4
2009/0110513	A1*	4/2009	Gahn .....	F16B 25/0026	2015/0050101	A1*	2/2015	Shih .....	F16B 35/00
				411/386					411/411
2009/0110514	A1*	4/2009	Huber .....	F16B 25/0026	2016/0032956	A1*	2/2016	Wu .....	F16B 25/0026
				411/386					411/387.8
					2018/0209465	A1*	7/2018	Lin .....	F16B 25/0026
					2018/0266471	A1*	9/2018	You .....	F16B 35/041

\* cited by examiner

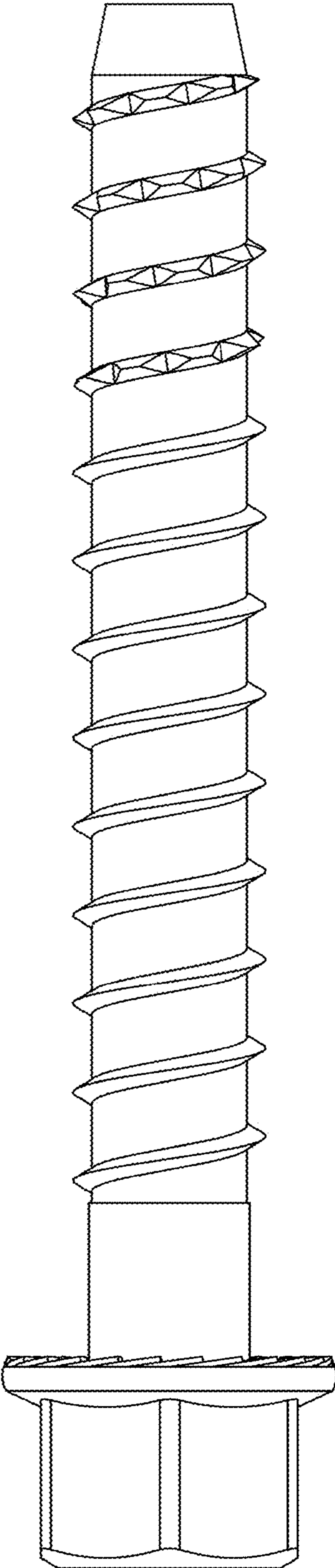


FIG. 1

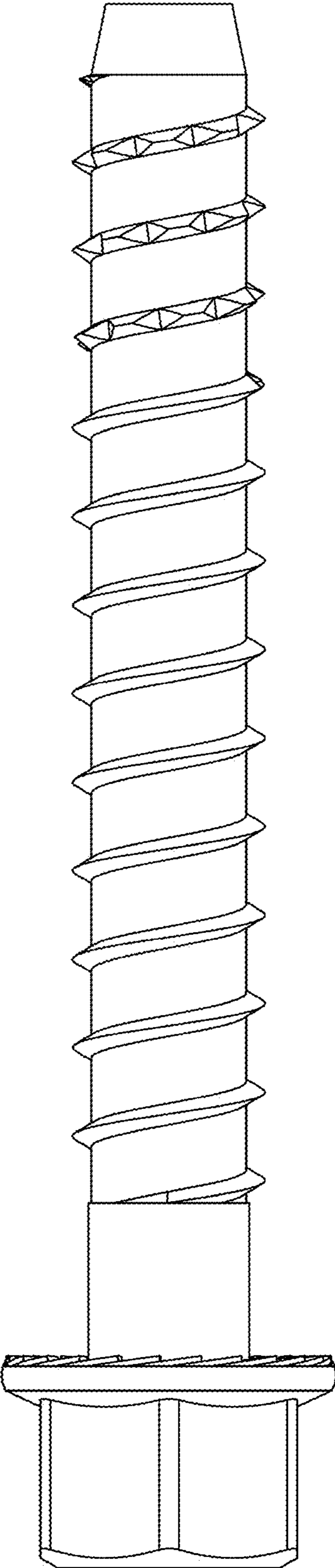


FIG. 2

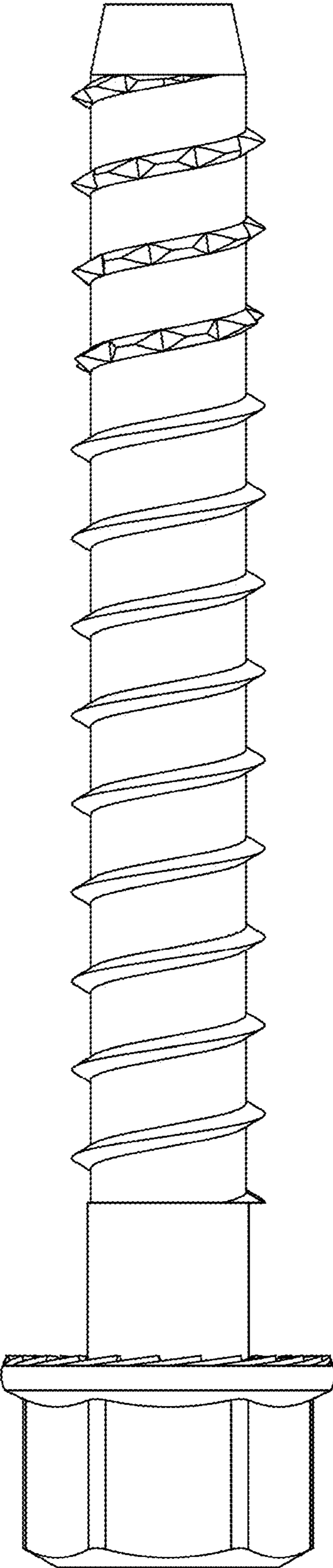


FIG. 3



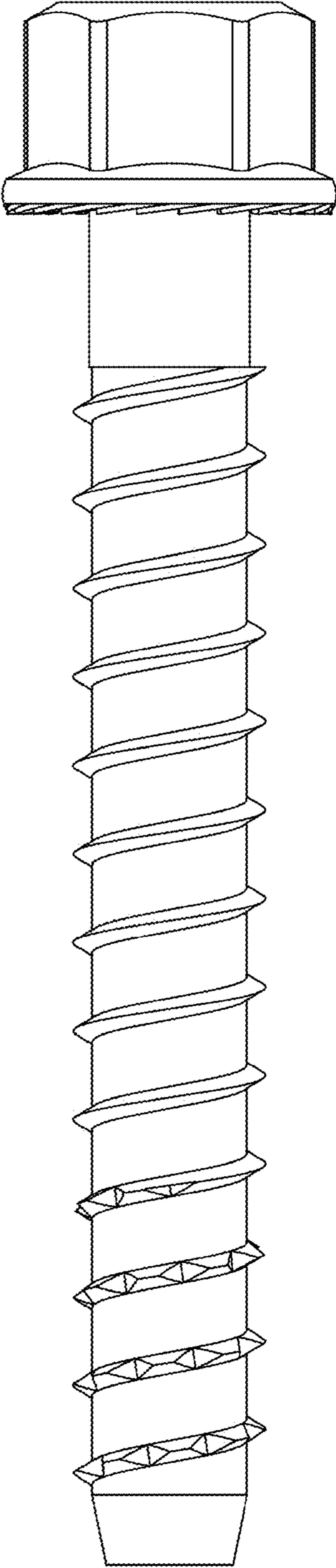


FIG. 4

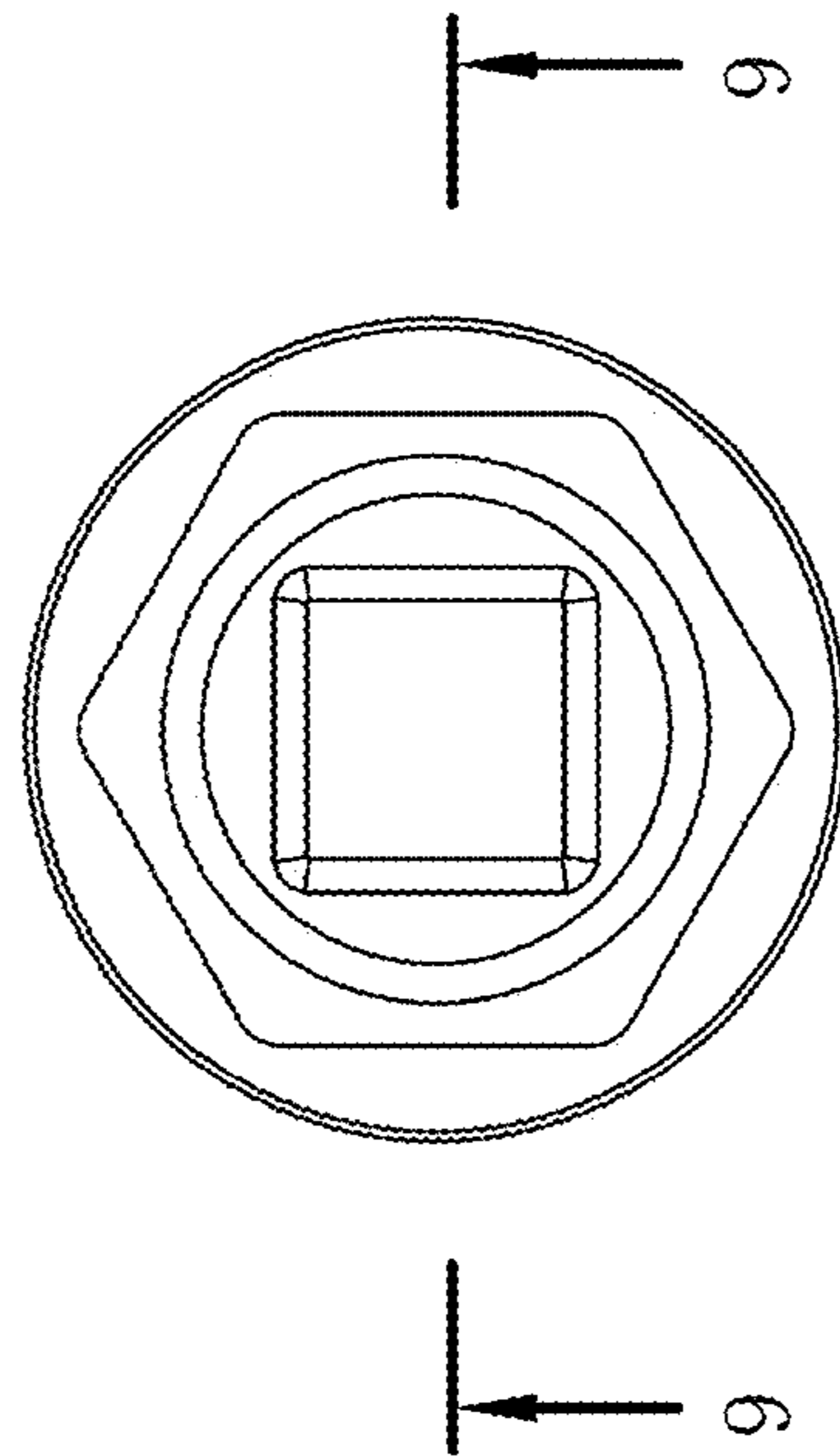


FIG. 5

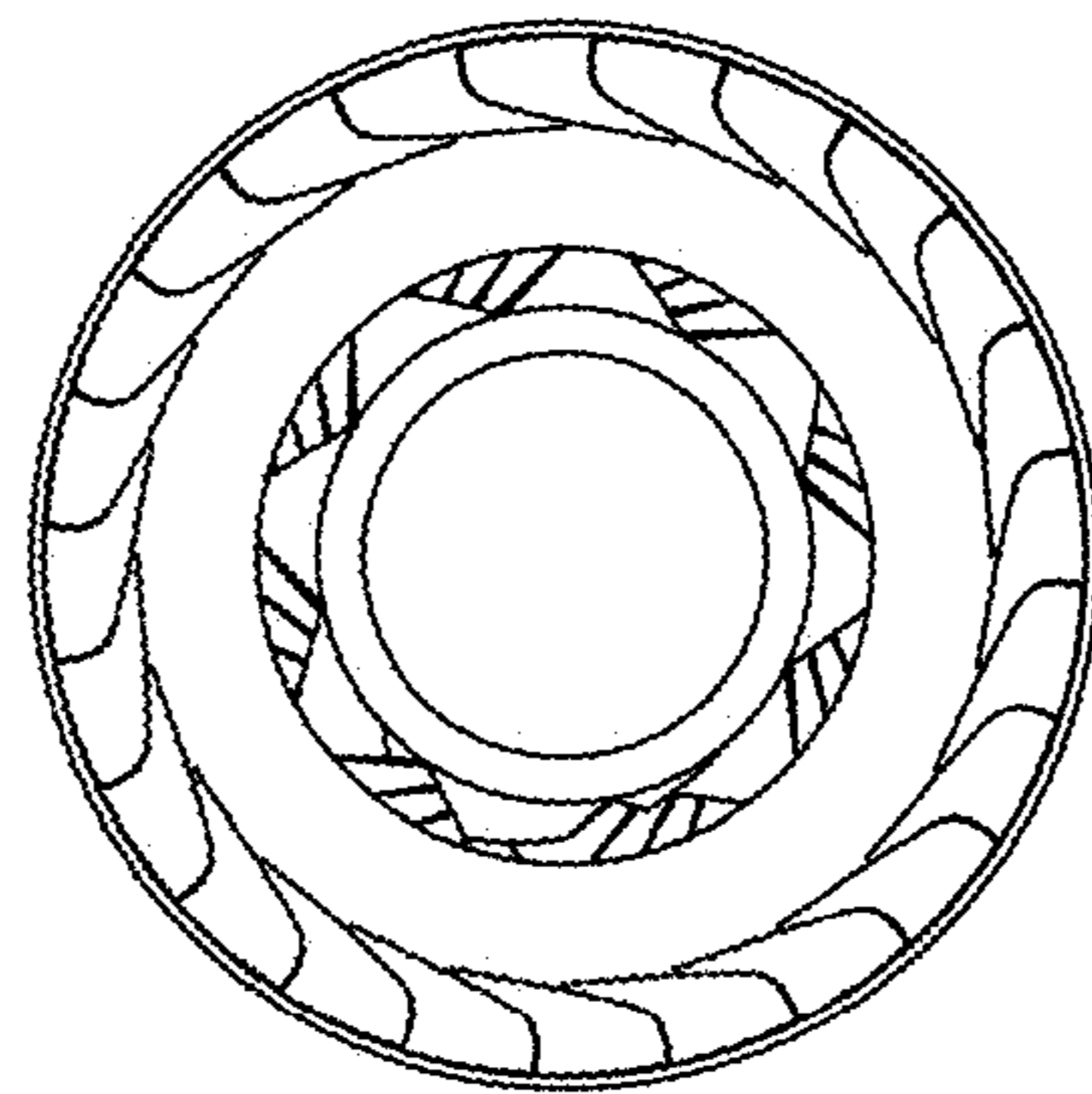


FIG. 6



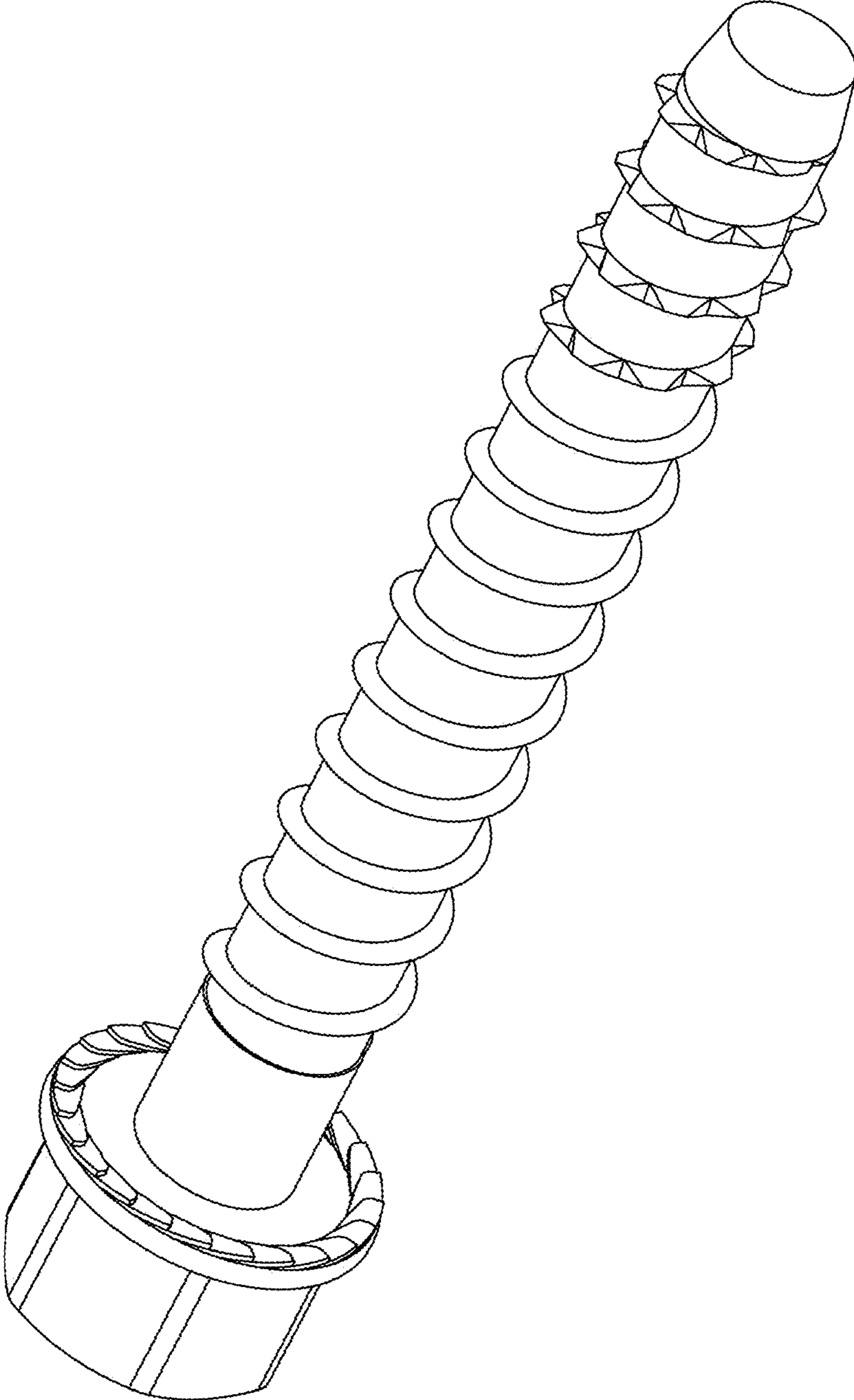


FIG. 7

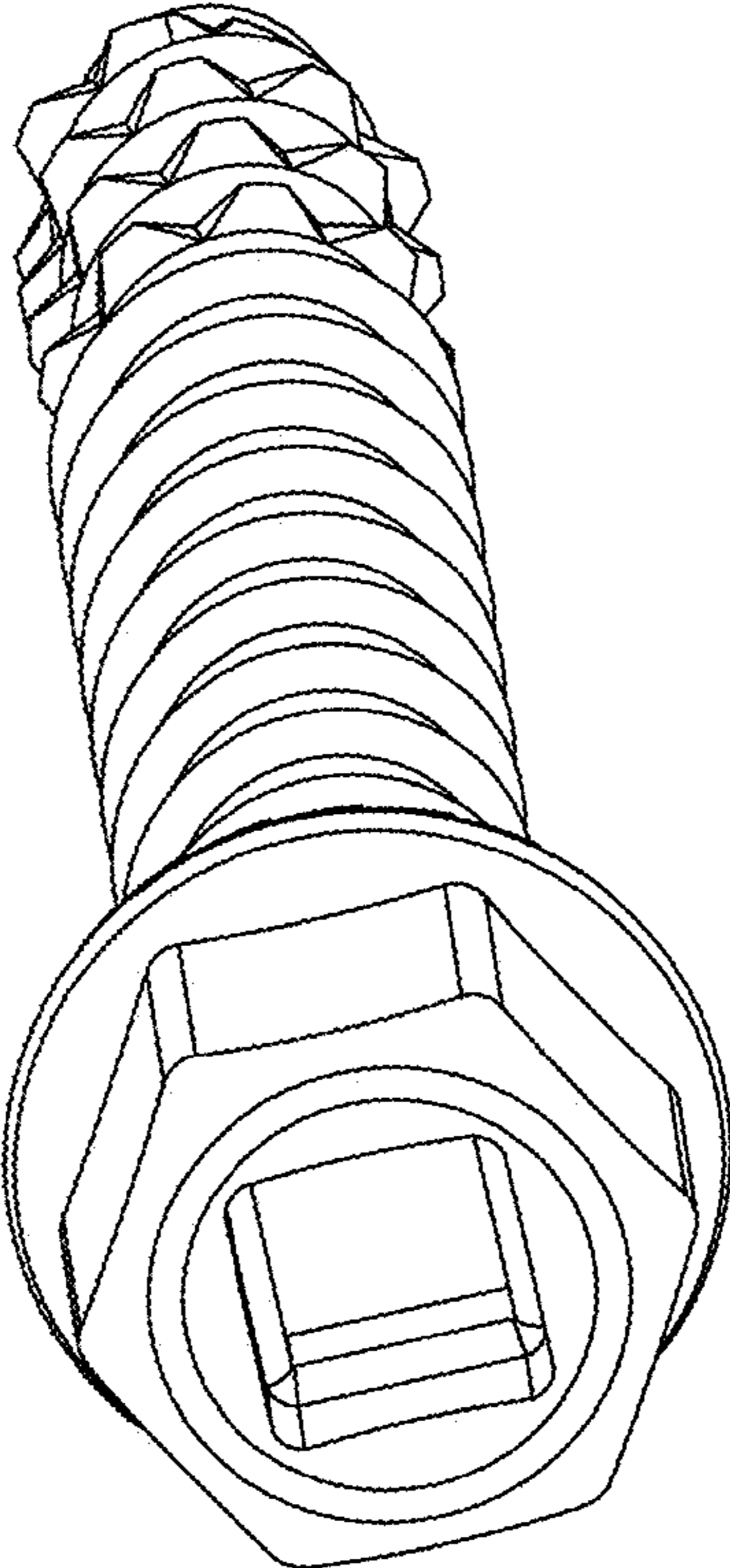


FIG. 8

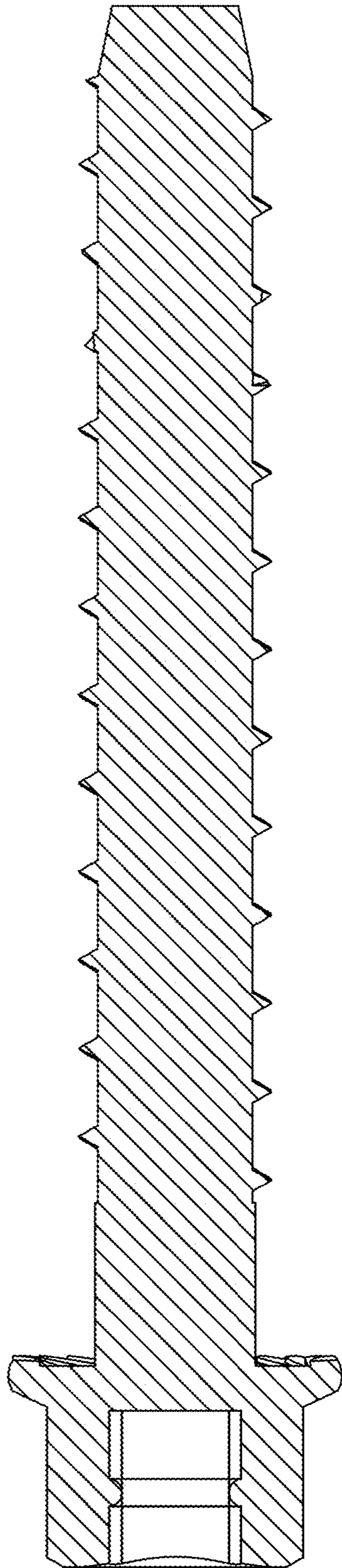


FIG. 9