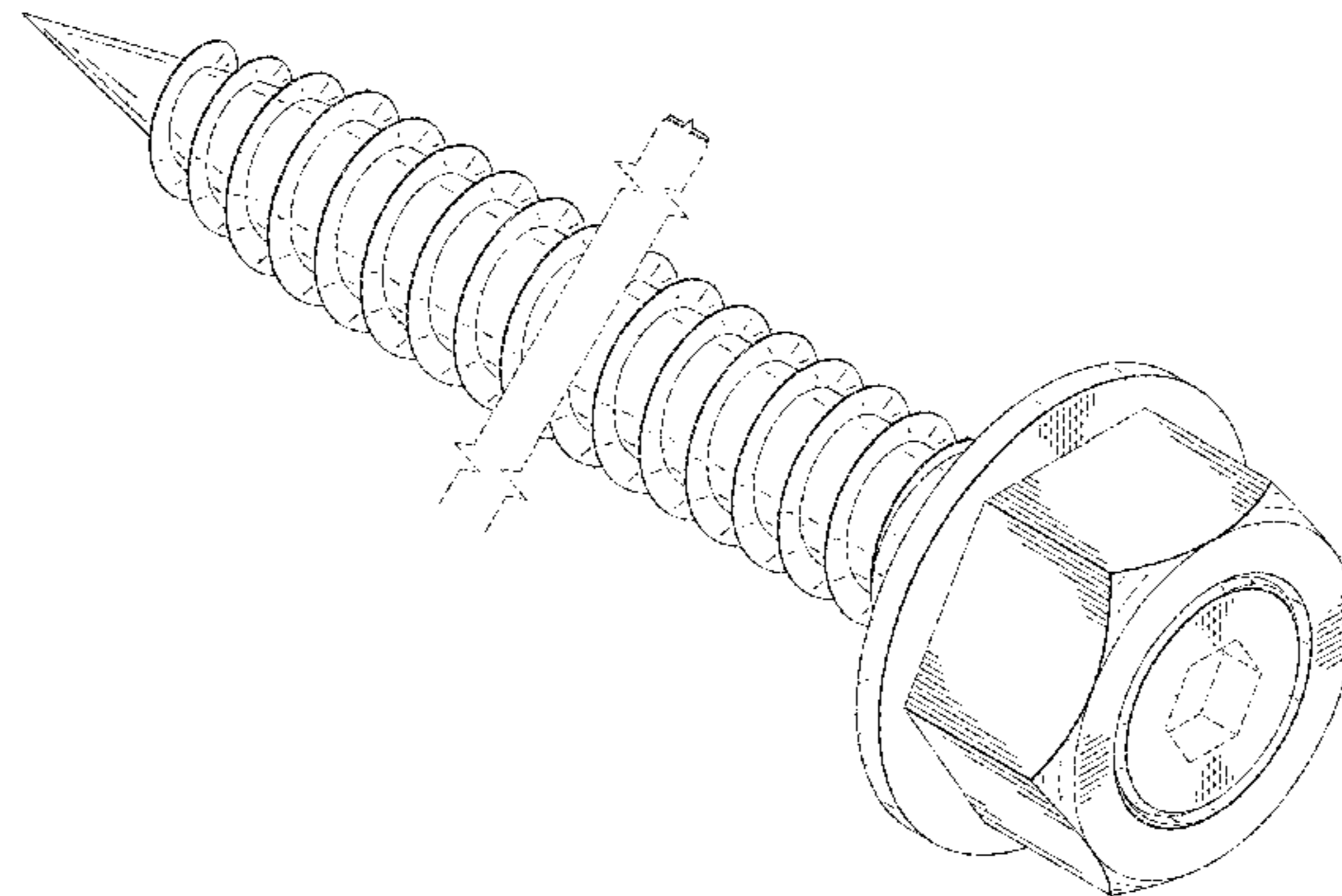




US00D870545S

(12) **United States Design Patent** (10) **Patent No.:** **US D870,545 S**  
**Hill** (45) **Date of Patent:** **\*\* Dec. 24, 2019**

- (54) **THREADED CONNECTOR** 529,683 A 11/1894 Herman  
D30,898 S 5/1899 Paine  
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Richardson, TX (US) 411/399  
1,086,737 A 2/1914 Taylor  
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1,400,531 A 12/1921 Dodds  
1,401,684 A 12/1921 Flannery  
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Richardson, TX (US) 1,507,840 A 9/1924 Landgraf  
1,908,080 A \* 5/1933 Thompson ..... F16B 23/0023  
16/DIG. 39  
(\*\*) Term: **15 Years** 1,994,978 A 3/1935 Brown  
2,316,695 A 4/1943 Jaffa  
(21) Appl. No.: **29/615,849** 2,816,473 A \* 12/1957 Labbee ..... A47G 3/00  
411/406  
(22) Filed: **Aug. 31, 2017** 3,042,068 A 7/1962 Smith  
3,266,828 A 8/1966 Baier  
**Related U.S. Application Data** 3,269,228 A 8/1966 Mack  
3,492,841 A 2/1970 Ipri  
(60) Continuation of application No. 15/338,104, filed on 3,965,793 A \* 6/1976 Roser ..... F16B 25/0015  
Oct. 28, 2016, now Pat. No. 9,957,998, which is a 411/386  
continuation of application No. 14/820,757, filed on 4,092,896 A 6/1978 Puchy  
Aug. 7, 2015, now Pat. No. 9,771,966, which is a 4,134,438 A 1/1979 Frieberg et al.  
division of application No. 13/918,227, filed on Jun. 4,207,938 A 6/1980 Mortus  
14, 2013, now Pat. No. 9,133,874. D256,553 S \* 8/1980 Fayle ..... D8/387  
(51) **LOC (12) Cl.** ..... **08-08** 4,281,699 A 8/1981 Grube  
(52) **U.S. Cl.** 4,436,005 A 3/1984 Hanson  
USPC ..... **D8/387** D276,879 S 12/1984 Bell  
(58) **Field of Classification Search** 4,540,322 A 9/1985 Coffia  
USPC ..... D8/385, 387, 388, 391, 393, 397, 349, 4,601,624 A 7/1986 Hill  
D8/354, 382 4,621,230 A 11/1986 Crouch et al.  
CPC .. F16B 23/00; F16B 23/0015; F16B 23/0023; 4,631,887 A 12/1986 Francovitch  
F16B 23/003; F16B 23/0038; F16B 4,632,616 A 12/1986 Sidoti  
23/0046; F16B 25/0036; F16B 25/0052; 4,683,670 A 8/1987 Bates  
F16B 25/0057; F16B 25/0063; F16B 4,708,555 A 11/1987 Terry  
25/0068; F16B 25/0078; F16B 25/0084; 4,822,223 A 4/1989 Williams  
F16B 35/041; F16B 35/044; F16B 35/06; 4,867,624 A 9/1989 Walley  
F16B 37/00; F16B 2037/007; F16B 4,887,951 A 12/1989 Hashimoto  
37/0807; F16B 37/14; F16B 37/145; D311,131 S 10/1990 Saito  
F16B 41/005 4,998,780 A 3/1991 Eshler et al.  
5,175,665 A 12/1992 Pegg  
See application file for complete search history. 5,302,069 A 4/1994 Toth et al.  
5,443,582 A 8/1995 Ching  
5,626,449 A 5/1997 McKinlay  
(56) **References Cited** 5,651,651 A 7/1997 Spencer  
U.S. PATENT DOCUMENTS 5,697,746 A 12/1997 Brown et al.  
5,728,136 A 3/1998 Thal  
111,996 A 2/1871 Washbourne 5,904,383 A 5/1999 Van Der Wal  
153,500 A 7/1874 Seymour 5,927,921 A 7/1999 Hukari  
D416,192 S 11/1999 Tu



6,045,312 A \* 4/2000 Hsing ..... F16B 25/0021  
411/399

6,053,683 A 4/2000 Cabiran

6,220,804 B1 4/2001 Pamer et al.

6,309,158 B1 10/2001 Bellinghausen et al.

D452,429 S 12/2001 Shinjo et al.

6,332,741 B1 \* 12/2001 Janusz ..... F16B 25/00  
411/309

6,361,258 B1 3/2002 Heesch

6,387,129 B2 5/2002 Rieser et al.

D459,207 S 6/2002 Miyata

6,457,923 B1 10/2002 Grossman

6,478,518 B1 11/2002 Hwang

6,540,750 B2 4/2003 Burkhart

6,764,114 B1 7/2004 Guillon

D512,886 S 12/2005 Christensen

D524,149 S 7/2006 Kim

D551,972 S 10/2007 Jacobs

D552,977 S \* 10/2007 He ..... D8/387

D567,074 S \* 4/2008 Gallien ..... D8/387

7,384,225 B2 6/2008 Woolstencroft

D581,778 S 12/2008 Lesesky

D588,893 S 3/2009 Radich

D602,349 S 10/2009 Andersson

D609,999 S 2/2010 Andersson

7,658,580 B1 2/2010 Conway et al.

D613,594 S 4/2010 Huang

D613,595 S 4/2010 Huang

D614,247 S 4/2010 Clausen

7,981,143 B2 7/2011 Doubler et al.

D643,279 S \* 8/2011 Crane ..... D8/387

D646,153 S 10/2011 Andersson

D646,154 S 10/2011 Andersson

8,051,690 B2 11/2011 Camisasca

D678,756 S \* 3/2013 Tsai ..... D8/387

D679,988 S 4/2013 Yamazaki

D691,033 S 10/2013 Allman

D698,234 S 1/2014 Bauer

8,622,677 B2 1/2014 Wu et al.

D698,637 S 2/2014 Su

D706,126 S 6/2014 Orow

D713,243 S 9/2014 Hsu

D720,785 S \* 1/2015 Sato ..... D15/144.2

D721,423 S 1/2015 Jacques et al.

D725,461 S 3/2015 Kopp

9,004,836 B2 4/2015 Wells et al.

D733,546 S \* 7/2015 Balzhiser ..... D8/387

9,377,047 B2 \* 6/2016 Hill ..... F16B 21/00

D760,582 S \* 7/2016 Muzic ..... D8/387

D788,574 S 6/2017 Baiz et al.

D798,701 S \* 10/2017 Hill ..... D8/397

D803,040 S \* 11/2017 Schuit ..... D8/397

9,957,998 B2 5/2018 Hill

2004/0170487 A1 9/2004 Thompson

2005/0053446 A1 3/2005 Huang et al.

2009/0108149 A1 4/2009 Goto

2010/0172718 A1 \* 7/2010 Gong ..... F16B 25/0031  
411/417

2010/0196119 A1 8/2010 Miyagawa et al.

2011/0170983 A1 \* 7/2011 Day ..... F16B 39/24  
411/370

2011/0214461 A1 9/2011 Camisasca

2011/0226096 A1 9/2011 Berton et al.

2013/0089388 A1 \* 4/2013 Liu ..... F16B 35/06  
411/371.2

2013/0136557 A1 5/2013 Wang

2014/0023457 A1 \* 1/2014 Gaudron ..... F16B 25/0026  
411/424

2014/0178150 A1 \* 6/2014 Su ..... F16B 35/065  
411/399

2015/0071731 A1 \* 3/2015 Scheerer ..... F16B 25/0021  
411/353

2015/0093213 A1 \* 4/2015 Scheerer ..... F16B 25/0021  
411/411

2016/0238054 A1 \* 8/2016 Lehtola ..... F16B 25/0031

2016/0273573 A1 9/2016 Hill

2017/0089385 A1 3/2017 Leichti et al.

2017/0108026 A1 \* 4/2017 Yang ..... F16B 25/103

2017/0138386 A1 \* 5/2017 Hsu ..... F16B 23/0023

2017/0282236 A1 \* 10/2017 Hutter, III ..... B21H 3/04

2017/0284447 A1 \* 10/2017 Falkenstein ..... F16B 35/06

FOREIGN PATENT DOCUMENTS

CN 200985943 12/2007

CN 201382063 1/2010

KR 200169430 11/1999

KR 200183592 3/2000

WO WO-9207198 A1 4/1992

OTHER PUBLICATIONS

Steel 2 Wood Fence Bracket WAP OZ, video post date: Jun. 17, 2014 (Online), <<https://www.homedepot.com/p/Oz-Post-Steel-2-Wood-Fence-Bracket-WAP-OZ-50110/204675163>>.\*

Curriculum Vitae of Fred Peterson Smith, presented in Support of Petition for Inter Partes Review of U.S. Pat. No. 9,957,998, *Simpson Strong-Tie Company Inc. v. Oz-Post International, LLC*, 4 pages.

Declaration of Fred P. Smith, P.E. In Support of Petition for Inter Partes Review of U.S. Pat. No. 9,957,998, *Simpson Strong-Tie Company Inc. v. Oz-Post International, LLC*, Jul. 20, 2018, 125 pages.

Fournier, Ron et al., "HPBooks: Metal Fabricator's Handbook", The Berkley Publishing Group, p. 15.

U.S. Appl. No. 15/338,104, filed Oct. 28, 2016, 122 pages.

Petition for Inter Partes Review of U.S. Pat. No. 9,957,998, *Simpson Strong-Tie Company Inc. v. Oz-Post International, LLC*, Jul. 23, 2018, 84 pages.

Petitioner Power of Attorney for Inter Partes Review of U.S. Pat. No. 9,957,998, *Simpson Strong-Tie Company Inc. v. Oz-Post International, LLC*, 2 pages.

Precision Metalforming Association, Design Guidelines for Precision Metalforming: Metal Stamping, Fabrication, Metal Spinning, Roll Forming, Secondary Operations and Related Subjects, "Spot Welding", Fourth Edition, 2009, pp. 115-122.

Webster's Third New International Dictionary, Merriam-Webster Inc., 1993, p. 864.

Simpson Strong-Tie Company, Inc.'s Invalidity Contentions Pursuant to Patent Local Rule 3-3, *Simpson Strong-Tie Company Inc. v. Oz-Post International, LLC*, Docket No. 3:18-cv-01188, Mar. 23, 2018, 458 pages.

English machine translation of previously cited Chinese Publication No. 201382063; dated Jan. 13, 2010; 9 pages.

English translation and certificate of translation of previously cited Chinese Publication No. 200985943; dated Dec. 5, 2007; 14 pages.

Expert Report of Fred P. Smith, *Simpson Strong-Tie Company Inc. v. Oz-Post International, LLC*, Case No. 3:18-cv-01188-WHO, dated Jun. 19, 2019, 99 pages.

\* cited by examiner

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Assistant Examiner — Ieisha N Price  
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(57) CLAIM

The ornamental design for a threaded connector, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a threaded connector;  
FIG. 2 is a top plan view of the threaded connector;  
FIG. 3 is a bottom plan view of the threaded connector;  
FIG. 4 a front elevation view of the threaded connector, the rear elevation view is a mirror image thereof; and,

FIG. 5 is a right side elevation view of the threaded connector, the left side elevation view is a mirror image thereof.

The threaded connector is shown with a symbolic break in its length. The broken lines and the appearance of any portion of the article between the break lines forms no part of the claimed design.

**1 Claim, 4 Drawing Sheets**

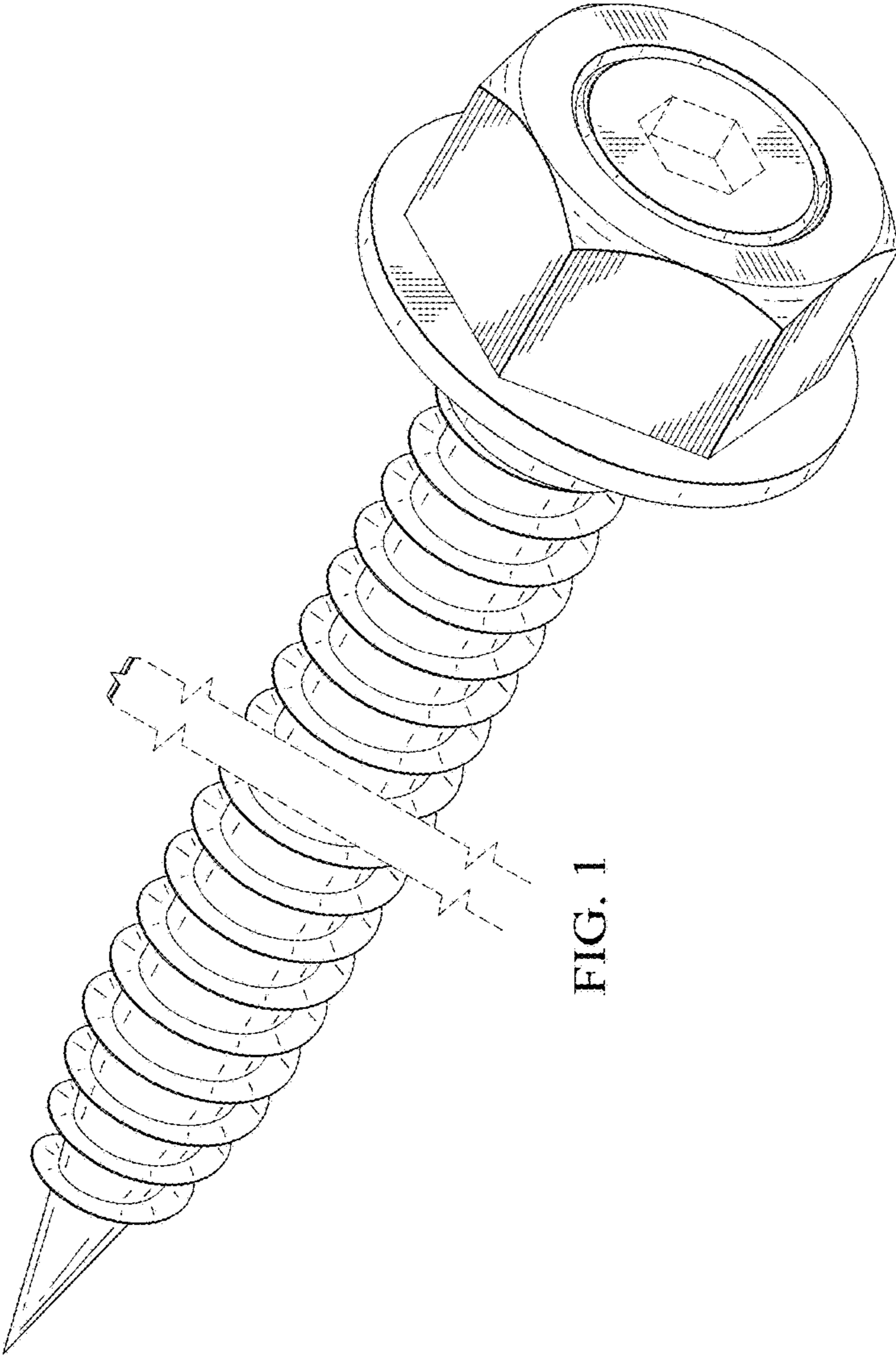


FIG. 1

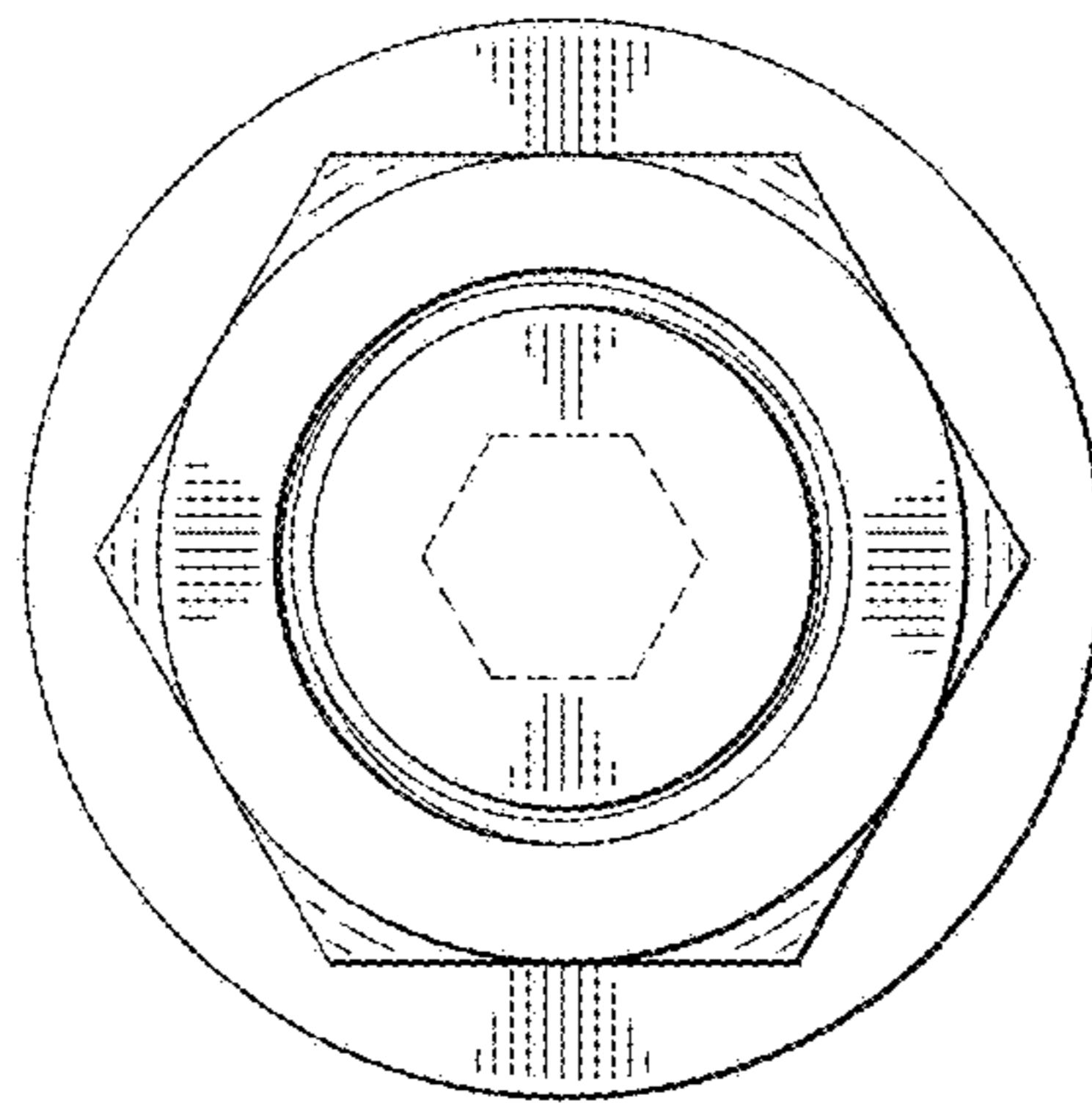


FIG. 2

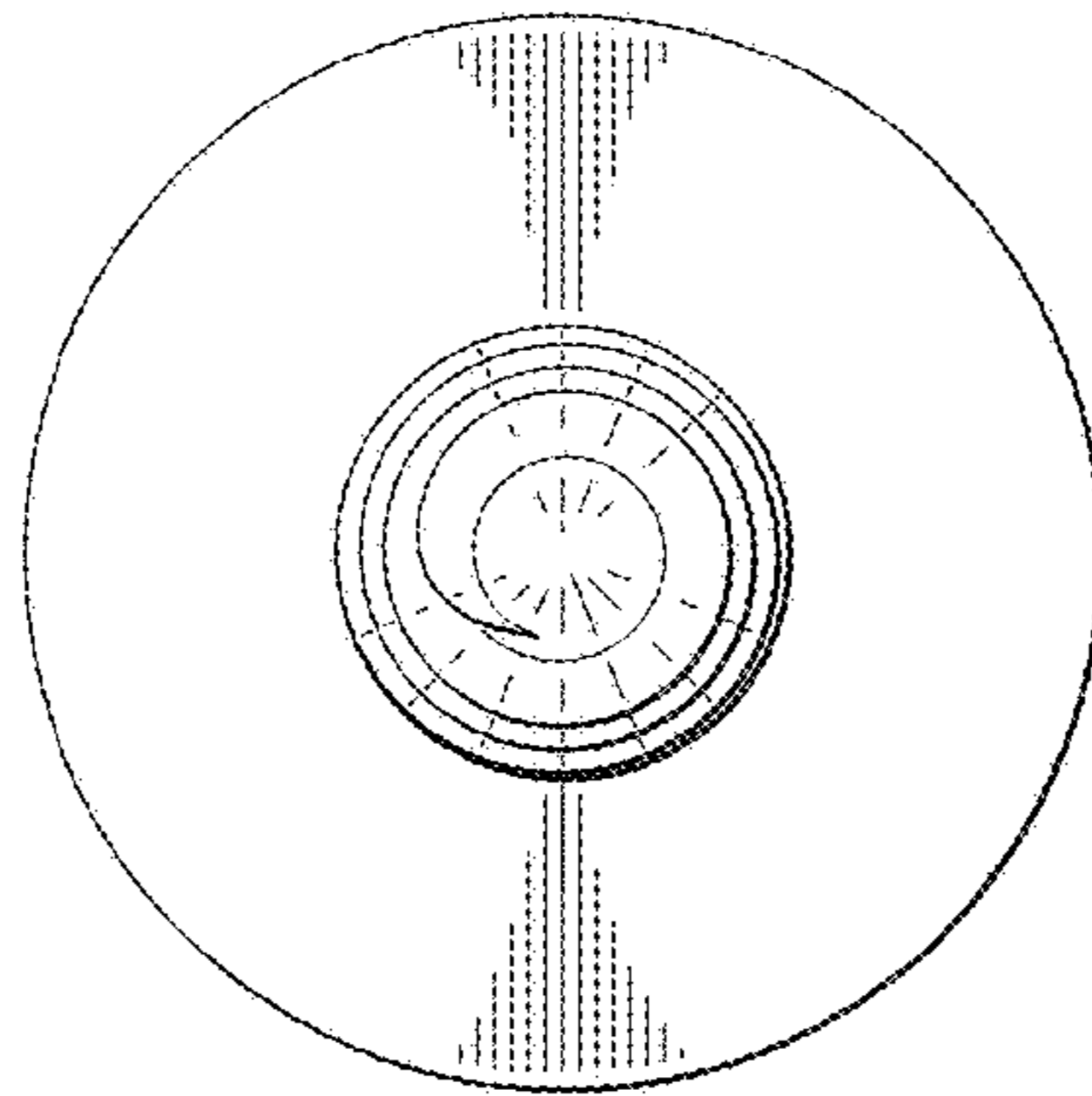


FIG. 3

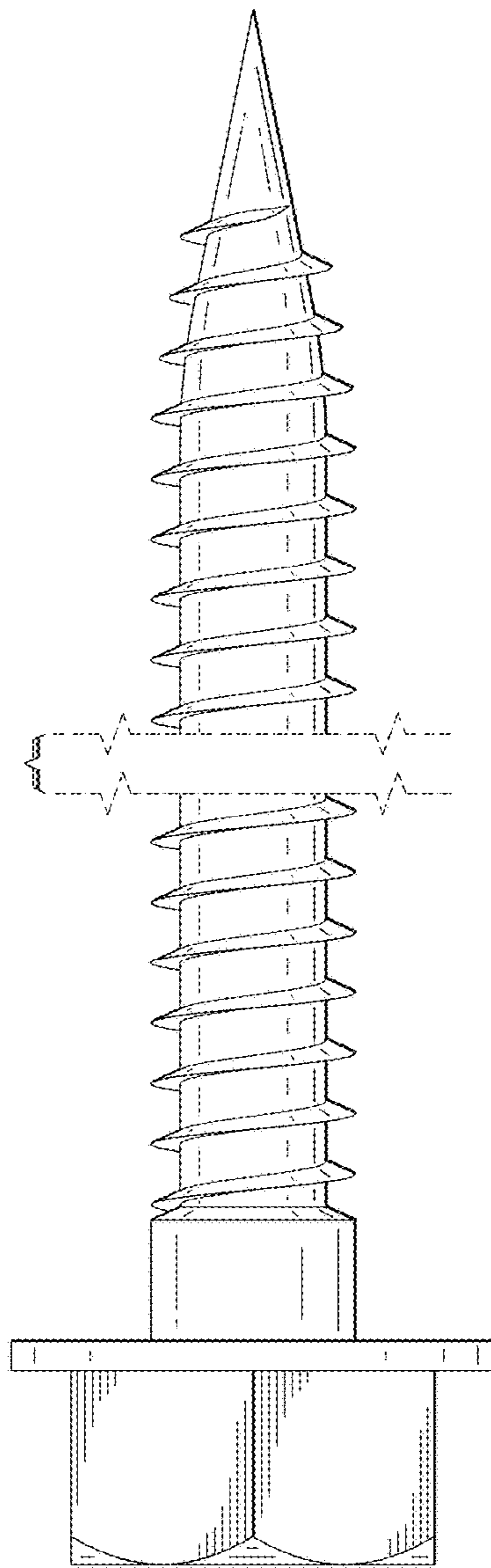


FIG. 4

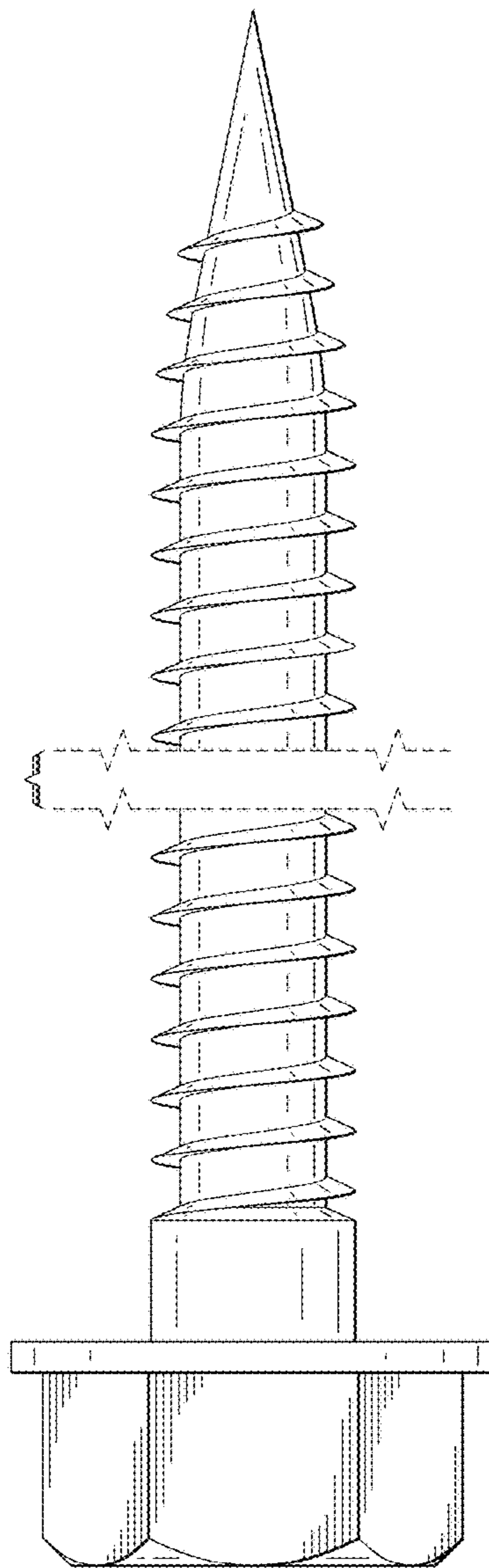


FIG. 5