



US00D833490S

(12) **United States Design Patent** (10) **Patent No.:** **US D833,490 S**
Defougeres (45) **Date of Patent:** **** Nov. 13, 2018**

(54) **DRILL BIT**
(71) Applicant: **DIAGER**, Poligny (FR)
(72) Inventor: **François Defougeres**, Poligny (FR)
(73) Assignee: **DIAGER**, Poligny (FR)
(**) Term: **15 Years**
(21) Appl. No.: **29/601,354**
(22) Filed: **Apr. 21, 2017**

Related U.S. Application Data

(63) Continuation of application No. 29/526,820, filed on May 13, 2015, now abandoned.
(51) **LOC (11) Cl.** **15-09**
(52) **U.S. Cl.**
USPC **D15/139**
(58) **Field of Classification Search**
USPC D8/70, 71; D15/138, 139
CPC . B23B 51/02; B23B 2251/14; B23B 2251/50;
B23B 2251/204; B23B 2226/75; B28D
1/146
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,137,398 A * 8/1992 Omori B23B 51/048
175/420.2
D332,492 S * 1/1993 Rosenberg D15/139
5,184,926 A * 2/1993 Hemmings B23B 51/02
408/226
D345,495 S * 3/1994 Priddy D8/70
5,375,672 A * 12/1994 Peay E21B 10/58
175/420.1
5,433,281 A * 7/1995 Black E21B 10/58
175/420.1
5,630,478 A * 5/1997 Schimke E21B 10/445
175/420.1

5,649,796 A * 7/1997 Durney B27G 15/00
408/144
5,893,688 A * 4/1999 Wiker B23B 51/02
175/394
6,021,857 A * 2/2000 Birk B23B 51/00
175/415
6,126,367 A * 10/2000 Reed B23B 51/02
408/1 R
D477,978 S * 8/2003 Hyde D8/70
D510,586 S * 10/2005 Sollami D15/139
D510,943 S * 10/2005 Sollami D15/139
D515,116 S * 2/2006 Sollami D15/139
D520,537 S * 5/2006 Cardew D15/139
D531,650 S * 11/2006 Switzer D15/139
D559,874 S * 1/2008 Kobayashi D15/139
D566,734 S * 4/2008 Croisdale D15/139
D615,839 S * 5/2010 Richter D15/139
D624,097 S * 9/2010 Kenny D15/139
D678,369 S * 3/2013 Santamarina D15/139
D688,715 S * 8/2013 Lampe D15/139
8,807,248 B2 * 8/2014 Bise E21B 10/58
175/420.1
D723,076 S * 2/2015 Lampe D15/139
D735,254 S * 7/2015 O'Malley D15/139

(Continued)

Primary Examiner — Patricia A Palasik
(74) *Attorney, Agent, or Firm* — Fredrikson & Byron,
P.A.

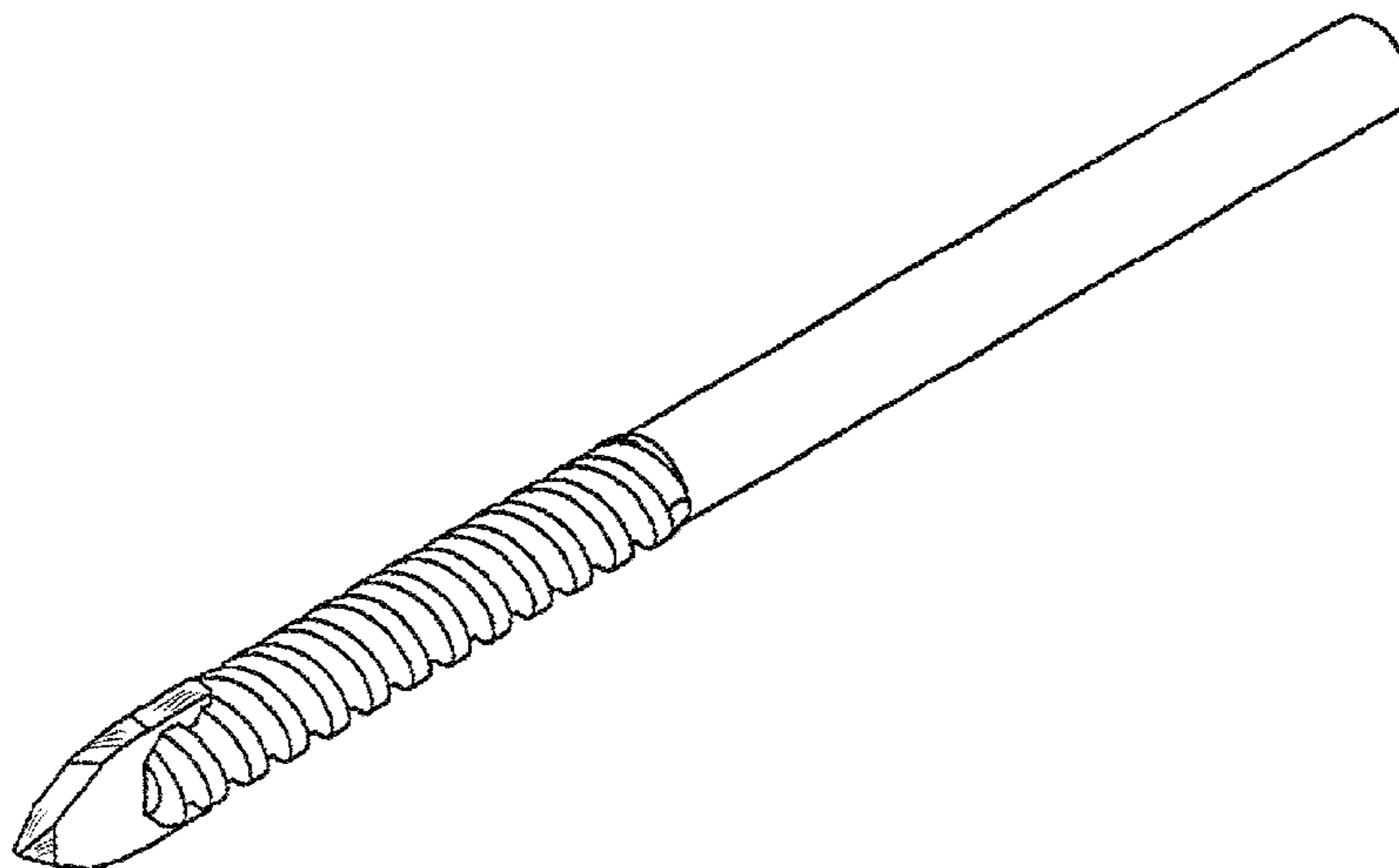
(57) **CLAIM**

I claim the ornamental design for a drill bit, as shown and described.

DESCRIPTION

FIG. 1 is a side perspective view of a drill bit incorporating my new design;
FIG. 2 is a left side elevational view thereof;
FIG. 3 is a top elevational view thereof the bottom elevational view is a mirror image; and,
FIG. 4 is a front elevational view thereof.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D741,924 S * 10/2015 Lee D15/139
 2001/0013431 A1* 8/2001 Huber B23B 51/00
 175/420.1
 2002/0040813 A1* 4/2002 Kleine B23B 51/02
 175/394
 2002/0053472 A1* 5/2002 Kleine B23B 51/02
 175/394
 2005/0126829 A1* 6/2005 Meierhofer B23B 51/02
 175/395
 2005/0205306 A1* 9/2005 Miyanaga B23B 51/02
 175/323
 2009/0028654 A1* 1/2009 Turrini B23B 51/0081
 408/1 R
 2009/0148250 A1* 6/2009 Chappell B23B 51/02
 408/230
 2010/0092259 A1* 4/2010 Borschert B23B 51/02
 408/230
 2010/0098500 A1* 4/2010 Weaver E21D 21/0026
 405/259.1

2010/0135741 A1* 6/2010 Probst B23B 51/02
 408/230
 2010/0183391 A1* 7/2010 Kersten B23B 51/02
 408/227
 2010/0296887 A1* 11/2010 Moseley B23B 51/02
 408/227
 2011/0168453 A1* 7/2011 Kersten B23B 51/02
 175/415
 2012/0003057 A1* 1/2012 Leyba B23B 31/005
 408/226
 2012/0241223 A1* 9/2012 Bise E21B 10/38
 175/428
 2013/0213717 A1* 8/2013 Bise E21B 10/26
 175/388
 2013/0317508 A1* 11/2013 Ellis A61B 17/1615
 606/80
 2013/0319774 A1* 12/2013 Hammer E21B 10/44
 175/394
 2015/0063935 A1* 3/2015 Lau B23B 51/00
 408/213

* cited by examiner

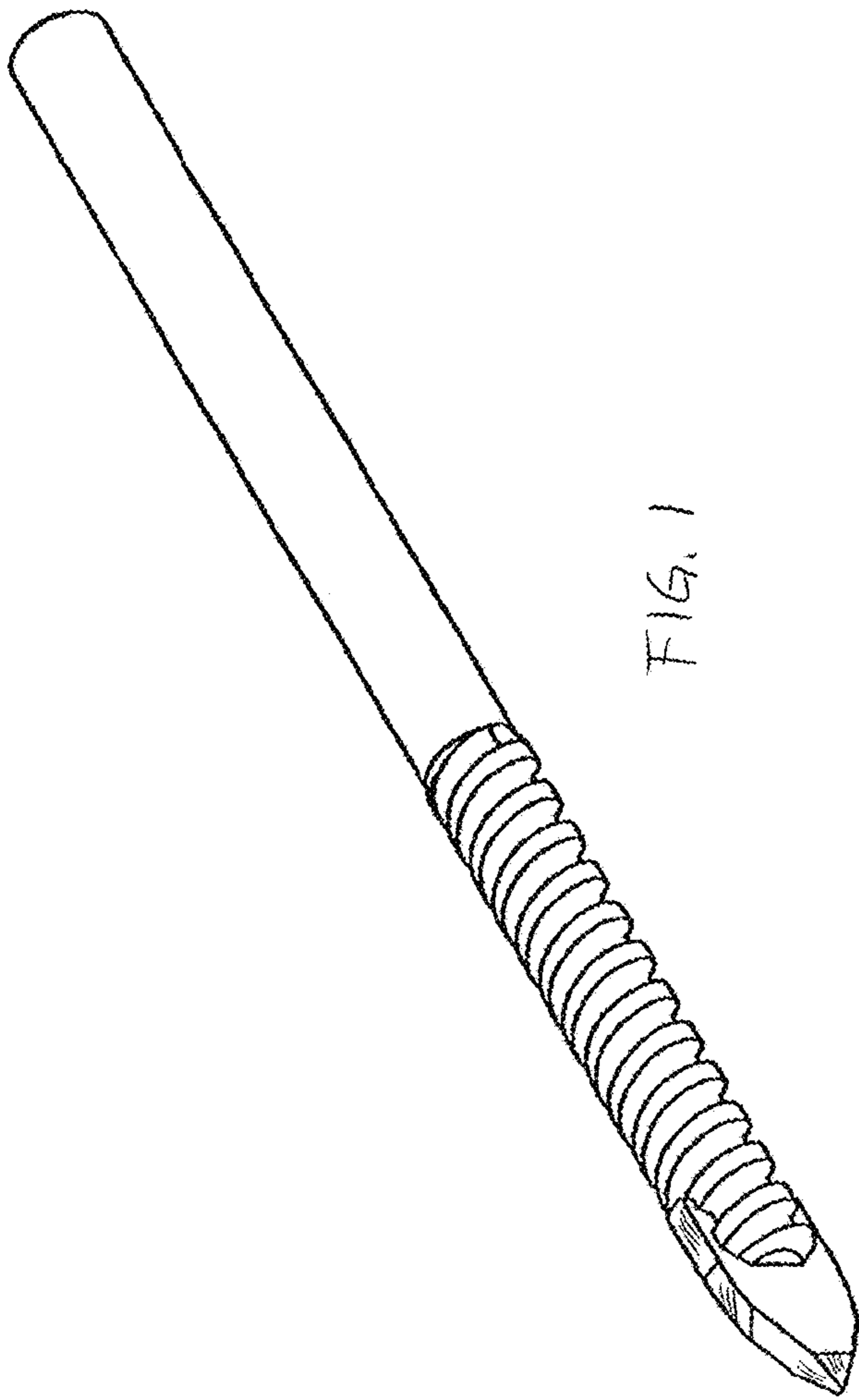


FIG. 1



FIG. 2



FIG. 3

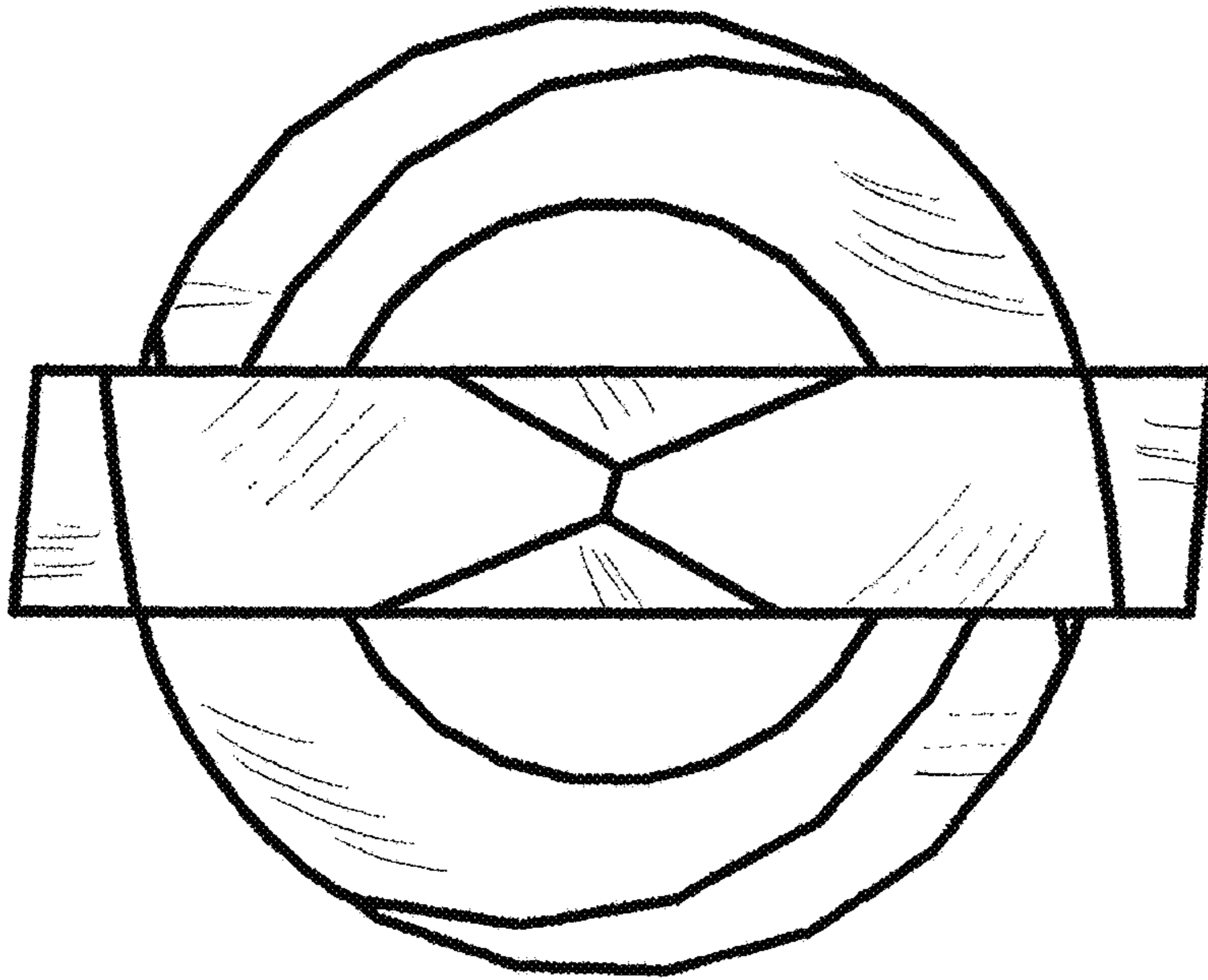


FIG. 4