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

(10) **Patent No.:** **US D923,674 S**  
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- (54) **DRILL BIT**
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- (21) Appl. No.: **29/696,421**
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1,025,109 A 4/1912 Butler  
 1,417,760 A 5/1922 McPherson  
 1,984,839 A 12/1934 Murray  
 2,358,077 A 9/1944 Koett  
 3,726,014 A 4/1973 Weissman  
 (Continued)

**FOREIGN PATENT DOCUMENTS**

AT 506032 A1 5/2009  
 CN 301047635 10/2009  
 (Continued)

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**Related U.S. Application Data**

- (62) Division of application No. 29/586,608, filed on Dec. 6, 2016, now Pat. No. Des. 859,483.
- (51) **LOC (13) Cl.** ..... **15-09**
- (52) **U.S. Cl.**  
USPC ..... **D15/139**
- (58) **Field of Classification Search**  
USPC ..... D8/70; D15/21, 139  
CPC ..... B27G 15/00; Y10T 408/902; Y10T 408/9097; Y10T 408/90467  
See application file for complete search history.

(57) **CLAIM**

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

**DESCRIPTION**

The file of this patent document contains at least one drawing executed in color. Copies of this patent document with color drawings will be provided by the United States Patent and Trademark Office upon request and payment of the necessary fee.

FIG. 1 is a perspective view of a drill bit according to one embodiment.

FIG. 2 is a first side view of the drill bit of FIG. 1.

FIG. 3 is a second side view of the drill bit of FIG. 1.

FIG. 4 is a third side view of the drill bit of FIG. 1.

FIG. 5 is a fourth side view of the drill bit of FIG. 1.

FIG. 6 is a first end view of the drill bit of FIG. 1; and,

FIG. 7 is a second end view of the drill bit of FIG. 1.

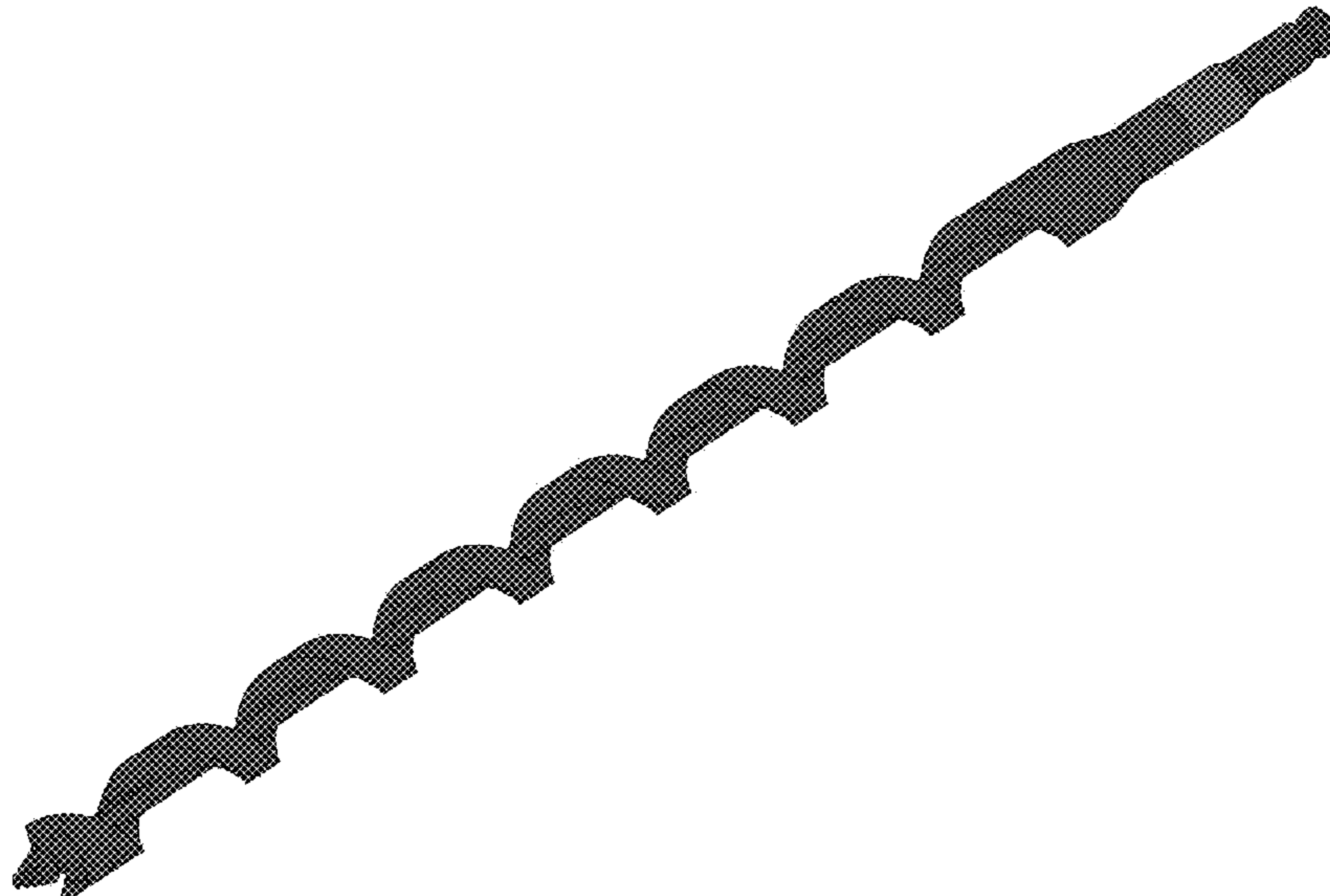
With respect to FIGS. 1-7, color is considered to be an integral part of the disclosed and claimed design. The red portions are for contrast of appearance only and do not represent any particular color, material, texture, or finish.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 5,036 A \* 3/1847 Newton ..... B23B 51/02  
408/210
- 6,221 A \* 3/1849 Sanford ..... B27G 15/00  
408/214
- 290,812 A \* 12/1883 Swan ..... B27G 15/00  
408/213
- 400,659 A \* 4/1889 Newton ..... B27G 15/00  
408/213
- 1,004,902 A 10/1911 Potter

**1 Claim, 4 Drawing Sheets**  
**(4 of 4 Drawing Sheet(s) Filed in Color)**



(56)

References Cited

U.S. PATENT DOCUMENTS

				CN	301512237	4/2011
				CN	301512238	4/2011
				CN	301512239	4/2011
				CN	301812448	1/2012
				CN	301843893	2/2012
3,850,054	A	11/1974	Weissman	CN	301946238	6/2012
4,536,107	A *	8/1985	Sandy .....	CN	302027884	8/2012
				CN	302027885	8/2012
				CN	302027886	8/2012
5,358,209	A	10/1994	Ward	CN	302027887	8/2012
D390,239	S *	2/1998	Malin .....	CN	302229164	12/2012
5,820,319	A *	10/1998	Hull .....	CN	302439550	5/2013
				CN	302452086	6/2013
				CN	302464728	6/2013
D408,424	S *	4/1999	Schmotzer .....	CN	302540717	8/2013
6,361,255	B1 *	3/2002	Schmotzer .....	CN	302678598	12/2013
				CN	302678599	12/2013
				CN	302678600	12/2013
D504,446	S *	4/2005	Kobayashi .....	CN	302678601	12/2013
7,033,363	B2	4/2006	Powell	CN	302678603	12/2013
D520,537	S	5/2006	Cardew	CN	303080433	1/2014
D559,874	S	1/2008	Kobayashi	CN	302972022	10/2014
D580,462	S	11/2008	Liao et al.	CN	303080386	1/2015
D585,920	S	2/2009	Liao et al.	CN	303616300	3/2016
D589,319	S	3/2009	Peters	CN	303735467	7/2016
D594,306	S	6/2009	Decker	CN	303787577	8/2016
D609,073	S	2/2010	Lin	CN	303787578	8/2016
D612,875	S	3/2010	Beynon	CN	303924689	11/2016
D627,807	S	11/2010	Tosti	EM	000004163-0002	7/2003
D664,167	S *	7/2012	Lampe .....	EM	000130034-0001	4/2004
D678,369	S *	3/2013	Santamarina .....	EM	000192158-0001	9/2004
D682,897	S *	5/2013	Evatt .....	EM	000210646-0001	11/2004
D682,899	S *	5/2013	Evatt .....	EM	000210646-0002	11/2004
D687,871	S	8/2013	Liao et al.	EM	000210646-0003	11/2004
D689,755	S	9/2013	Quinn et al.	EM	000210646-0004	11/2004
D699,089	S	2/2014	Quinn et al.	EM	000159488-0001	6/2005
D709,111	S	7/2014	Liao et al.	EM	000159488-0002	6/2005
8,784,017	B2	7/2014	Ibarra et al.	EM	000768353-0001	8/2007
8,974,466	B2	3/2015	Powell	EM	000768353-0002	8/2007
D734,792	S	7/2015	Santamarina et al.	EM	000768353-0003	8/2007
9,113,916	B2	8/2015	Lozier et al.	EM	000768353-0004	8/2007
D737,875	S	9/2015	Santamarina et al.	EM	000768353-0005	8/2007
D750,674	S	3/2016	Dunnahoe	EM	000768353-0006	8/2007
9,480,488	B2	11/2016	Powell	EM	000917489-0001	5/2008
D774,868	S	12/2016	Ouyang	EM	000917489-0002	5/2008
D859,483	S *	9/2019	Zimmermann .....	EM	000917489-0004	5/2008
2003/0035694	A1 *	2/2003	Liao .....	EM	000920681-0001	5/2008
				EM	000920681-0002	5/2008
2004/0052594	A1 *	3/2004	Singh .....	EM	000931795-0001	6/2008
				EM	000931795-0002	6/2008
2005/0126829	A1 *	6/2005	Meierhofer .....	EM	000931795-0003	6/2008
				EM	000931795-0004	6/2008
2005/0169720	A1 *	8/2005	Kobayashi .....	EM	000956792-0001	7/2008
				EM	000956792-0002	7/2008
2008/0138165	A1 *	6/2008	Durfee .....	EM	001051494-0003	1/2009
				EM	001051494-0004	1/2009
2009/0148250	A1 *	6/2009	Chappell .....	EM	0010365003-003	1/2009
				EM	0010365003-004	1/2009
2010/0135741	A1 *	6/2010	Probst .....	EM	000925201-0001	5/2010
				EM	000925201-0002	5/2010
2011/0207081	A1 *	8/2011	Jensen .....	EM	000925201-0003	5/2010
				EM	000925201-0004	5/2010
2011/0318129	A1 *	12/2011	Piper .....	EM	000925201-0005	5/2010
				EM	000925201-0006	5/2010
2013/0319774	A1 *	12/2013	Hammer .....	EM	001745712-0001	9/2010
				EM	001745712-0002	9/2010
2015/0016906	A1 *	1/2015	York .....	EM	001812835-0001	2/2011
				EM	001812835-0002	2/2011
2016/0375500	A1 *	12/2016	Kaye, Jr. ....	EM	001866955-0001	5/2011
				EM	001866955-0002	5/2011
				EM	001903592-0004	8/2011
				EM	001903592-0005	8/2011
				EM	001903592-0006	8/2011
				EM	001936428-0001	10/2011
				EM	001936428-0002	10/2011
				EM	001936428-0004	10/2011
				EM	001936428-0005	10/2011
				EM	002018309-0001	4/2012

FOREIGN PATENT DOCUMENTS

CN	301095647	12/2009				
CN	301175430	4/2010				
CN	301175432	4/2010				
CN	301306733	8/2010				
CN	301342024	9/2010				
CN	301391013	11/2010				
CN	301397040	12/2010				
CN	301397042	12/2010				

(56)

**References Cited**

## FOREIGN PATENT DOCUMENTS

EM	002018309-0002	4/2012
EM	002024570-0001	4/2012
EM	001980681-0003	5/2012
EM	002001735-0001	7/2012
EM	002285510-0001	8/2013
EM	002285510-0002	8/2013
EM	001382840-0001	11/2013
EM	001382840-0002	11/2013
EM	001382840-0003	11/2013
EM	001382840-0004	11/2013
EM	001382840-0005	11/2013
EM	001382840-0006	11/2013
EM	001382840-0007	11/2013
EM	001382840-0008	11/2013
EM	001407118-0001	4/2014
EM	001407118-0002	4/2014
EM	001407118-0003	4/2014
EM	001407118-0004	4/2014
EM	001407118-0005	4/2014
EM	001407118-0006	4/2014
EM	001407118-0007	4/2014
EM	001407118-0008	4/2014
EM	003099431-0001	7/2016
EM	003099431-0002	7/2016
EM	003099431-0003	7/2016
EM	003099431-0004	7/2016
EP	1750597	12/2010
GB	1568013 A	5/1980
WO	WO2013140121	9/2013
WO	WODM083624	4/2014
WO	WODM084087	7/2014
WO	WODM088075	10/2015

\* cited by examiner

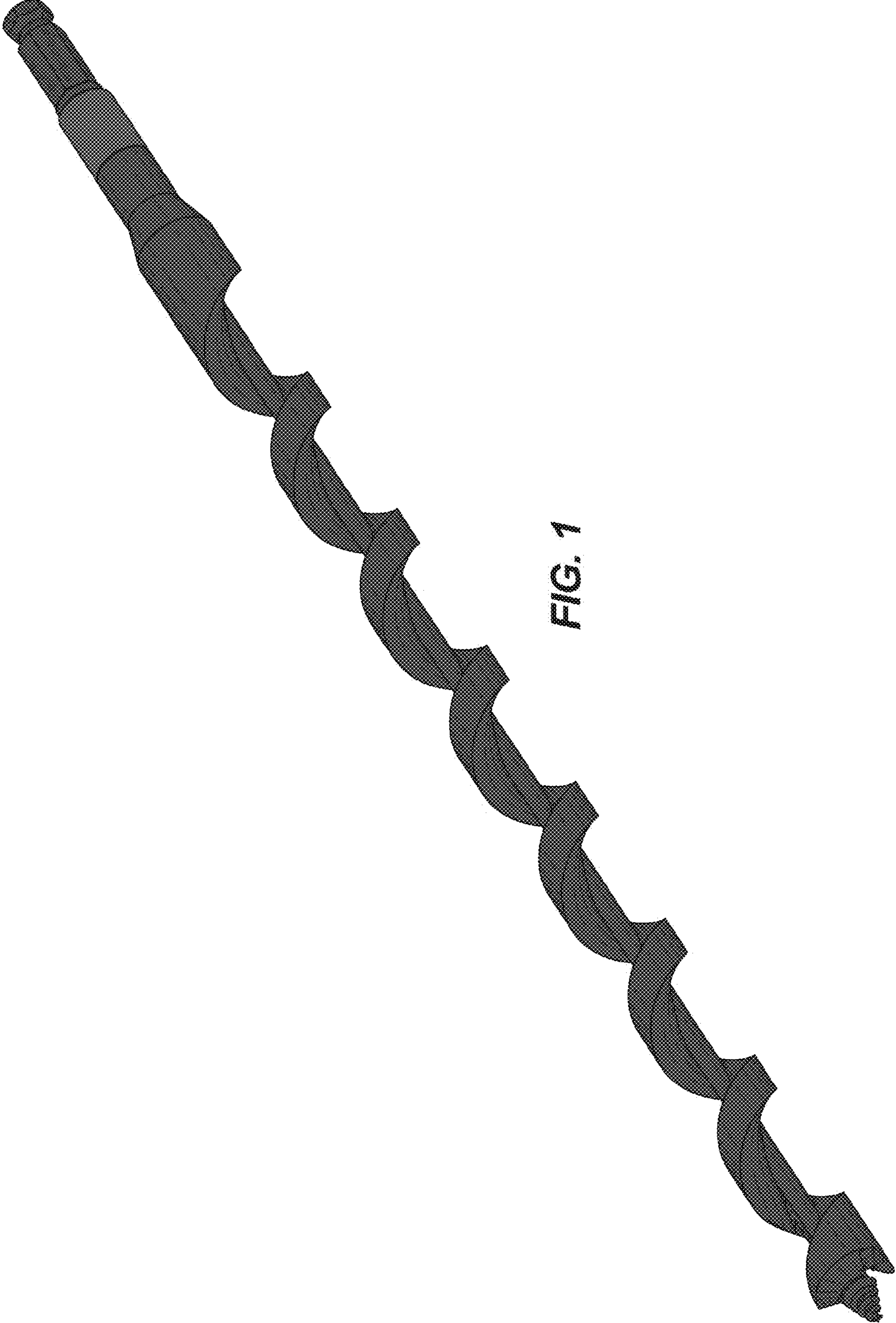


FIG. 1

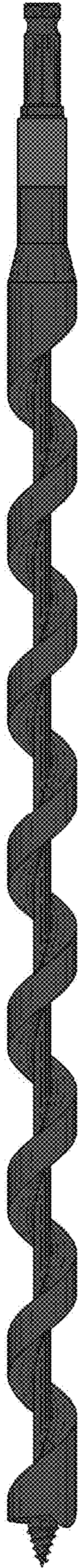


FIG. 2



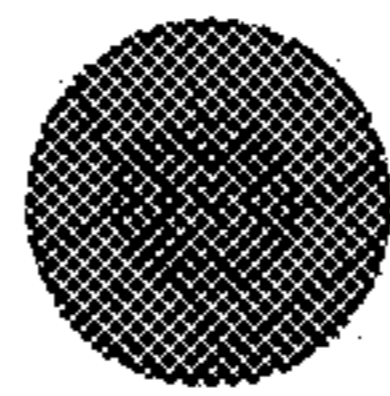
FIG. 3



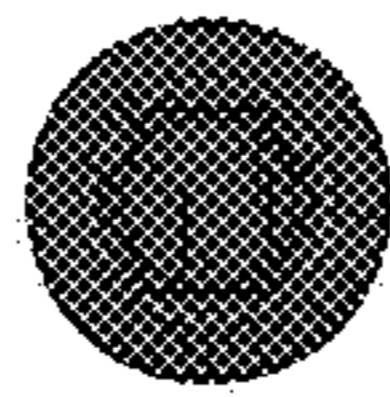
FIG. 4



FIG. 5



***FIG. 6***



***FIG. 7***