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

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- (54) **SPADE TYPE BORING BIT**
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- (**) Term: **14 Years**
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5,061,127 A	10/1991	Thomas	
5,193,951 A	3/1993	Schimke	
5,221,166 A	6/1993	Bothum	
5,286,143 A	2/1994	Schimke	
5,291,806 A	3/1994	Bothum	
D372,485 S	8/1996	Stone et al.	
D376,809 S	12/1996	Stone et al.	
5,697,738 A	12/1997	Stone et al.	
D394,663 S	5/1998	Stone et al.	
6,227,774 B1 *	5/2001	Haughton et al.	408/225
D455,446 S	4/2002	Collins	
6,957,937 B2	10/2005	Vasudeva	
7,140,814 B2	11/2006	Singh et al.	
7,267,513 B2 *	9/2007	Wiker et al.	408/214
7,416,371 B2	8/2008	Scott et al.	
2002/0127071 A1 *	9/2002	Vasudeva	408/213
2008/0101879 A1	5/2008	Durfee	
2009/0047085 A1	2/2009	Liao et al.	

Related U.S. Application Data

- (62) Division of application No. 29/312,124, filed on Sep. 30, 2008.
- (51) **LOC (9) Cl.** **15-09**
- (52) **U.S. Cl.** **D15/139**
- (58) **Field of Classification Search** D15/138,
D15/139, 140; 408/211-214, 225-230
See application file for complete search history.

* cited by examiner

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(56) **References Cited**

U.S. PATENT DOCUMENTS

2,627,292 A	2/1953	Kronwall
2,692,627 A	10/1954	Stearns
2,794,468 A	6/1957	Huxtable
D240,263 S	6/1976	Southhall
3,997,279 A	12/1976	Porter
4,286,904 A	9/1981	Porter et al.
D278,065 S	3/1985	Sydrowski et al.
4,625,593 A	12/1986	Schmotzer
4,753,558 A	6/1988	Jansson
4,819,736 A	4/1989	Hedgepeth
4,950,111 A	8/1990	Thomas

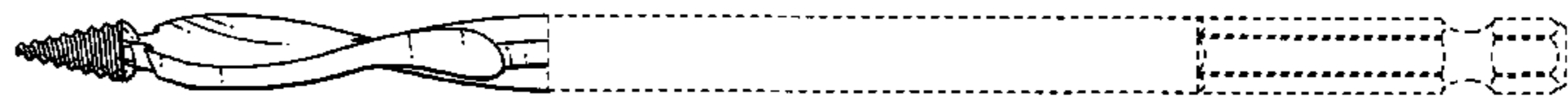
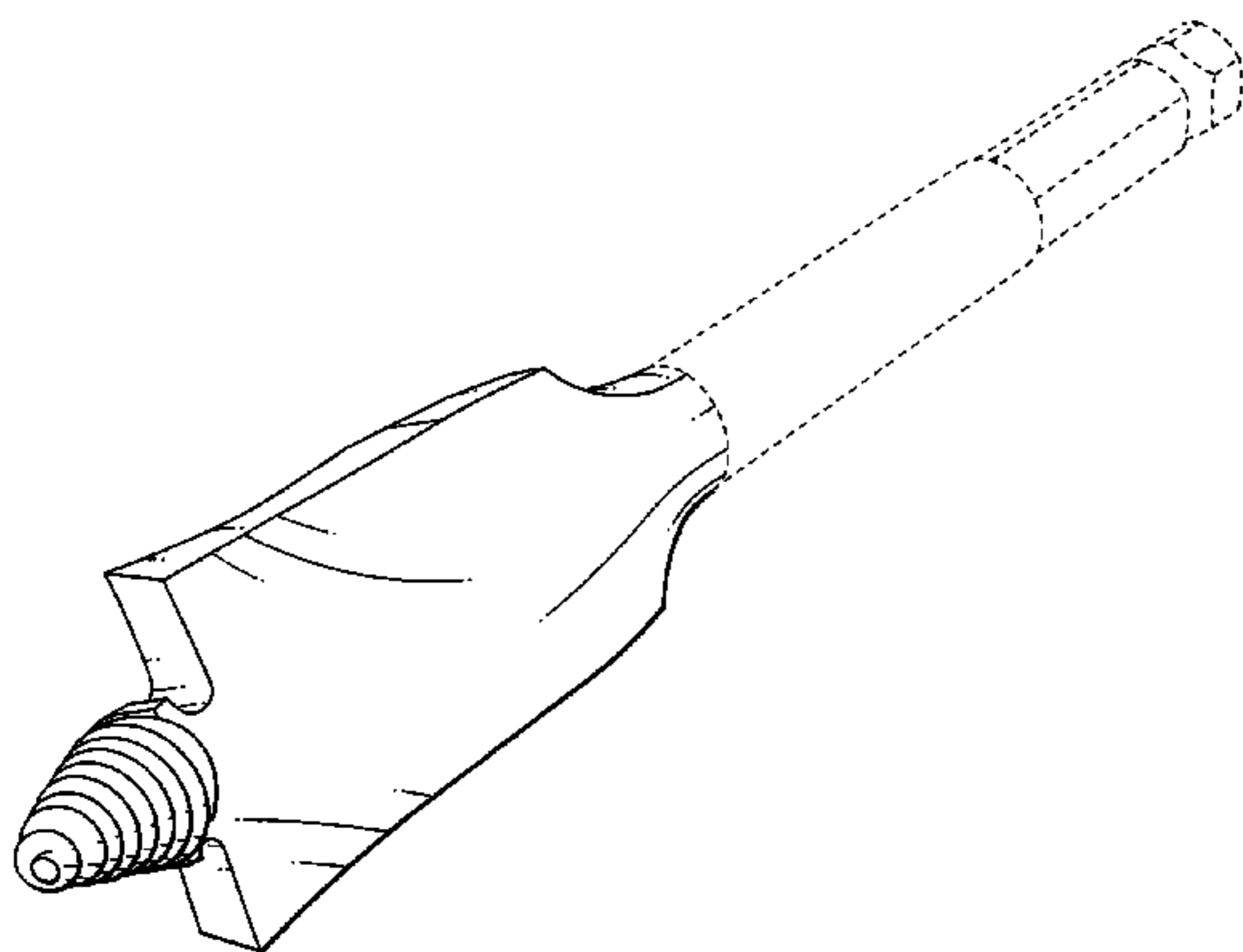
(57) **CLAIM**

The ornamental design for a spade type boring bit, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a spade type boring bit;
FIG. 2 is an elevation view taken along a line perpendicular to the cutting blade portion of the tool shown in FIG. 1;
FIG. 3 is an elevation view taken along the line of the cutting blade portion of the tool shown in FIG. 1;
FIG. 4 is a top view of the tool shown in FIG. 1; and,
FIG. 5 is a bottom view of the tool shown in FIG. 1.

1 Claim, 2 Drawing Sheets



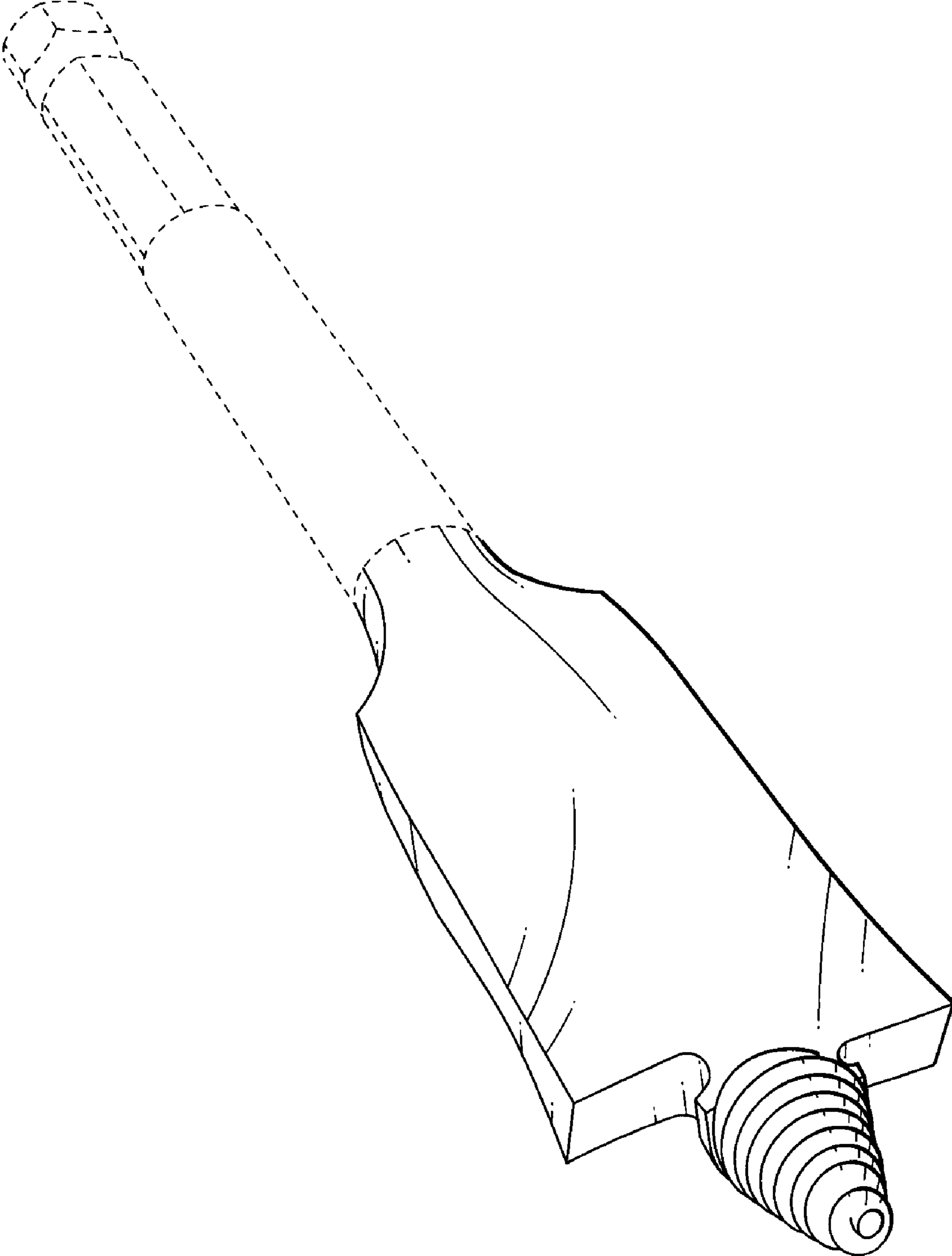


FIG. 1

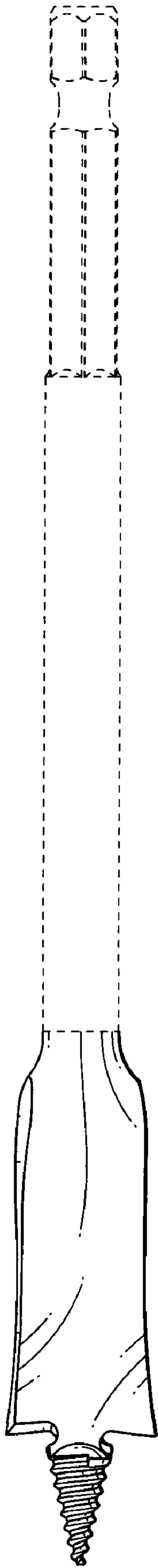


FIG. 2

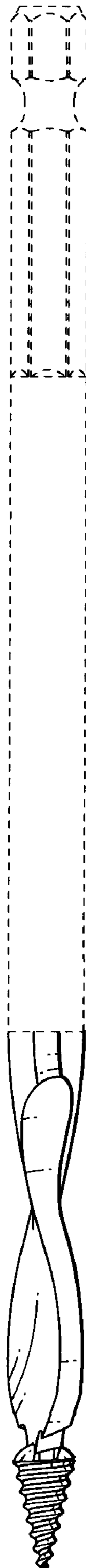


FIG. 3

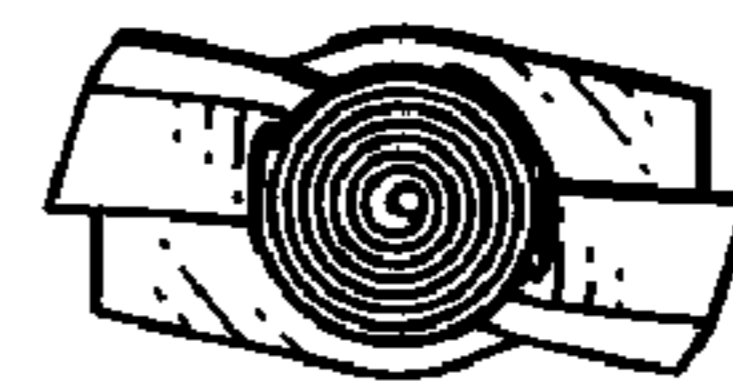


FIG. 4



FIG. 5