



US006543317B1

(12) **United States Patent**
Rinner et al.

(10) **Patent No.:** **US 6,543,317 B1**
(45) **Date of Patent:** **Apr. 8, 2003**

(54) **SCREW HOLDER AND TORQUING TOOL**

(75) Inventors: **James A. Rinner**, Racine, WI (US);
Mary E. Uhrich, Milford, MA (US)

(73) Assignee: **Beere Precision Medical Instruments, Inc.**, Kenosha, WI (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

2,805,594 A *	9/1957	Fogel	81/125
3,056,441 A *	10/1962	Helms	81/429
3,162,072 A *	12/1964	Stewart	81/55
3,379,231 A *	4/1968	Gallo, Sr.	81/455
3,901,298 A *	8/1975	Eby	81/455
4,644,831 A *	2/1987	Yang	81/125
4,744,273 A *	5/1988	Bartok, Jr.	81/453
4,976,174 A *	12/1990	Walsh	81/125
5,605,080 A *	2/1997	Pfefferle et al.	81/456
6,299,616 B1 *	10/2001	Beger	606/86

FOREIGN PATENT DOCUMENTS

JP 01199774 A * 8/1989 B25B/23/10

* cited by examiner

Primary Examiner—Joseph J. Hail, III

Assistant Examiner—David B. Thomas

(74) *Attorney, Agent, or Firm*—Arthur J. Hansmann

(21) Appl. No.: **10/017,964**

(22) Filed: **Dec. 18, 2001**

(51) **Int. Cl.**⁷ **B25B 13/06**

(52) **U.S. Cl.** **81/125; 81/452; 81/176.2**

(58) **Field of Search** 81/125, 438, 452,
81/13, 176.2

(57) **ABSTRACT**

A screw holder and torquing tool having a one-piece body with a cavity for receiving a screw in a sturdy and stable condition. The screw can be applied in stabilizing bone, and the tool can apply sufficient torque though it is of a relatively small overall size. Tangs or fingers are flexible on the tool and they flex toward and away from the cavity and they hold the screw in the tool until the screw is embedded into bone or other host object.

6 Claims, 1 Drawing Sheet

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,698,521 A *	1/1929	Wood	81/452
1,712,196 A *	5/1929	Burger et al.	81/452
2,247,500 A *	7/1941	Hutchison, Jr.	81/125
2,304,271 A *	12/1942	Merriman et al.	81/125
2,566,673 A *	9/1951	Nygaard	81/452
2,611,289 A *	9/1952	Frank	81/125
2,704,954 A *	3/1955	Martorella	81/112
2,798,394 A *	7/1957	Hubbard	81/125

