



US00D344799S

United States Patent [19]

[11] Patent Number: **Des. 344,799**

Hood et al.

[45] Date of Patent: **** Mar. 1, 1994**

[54] ULTRASONIC CUTTING TOOL FOR MEDICAL USE

[75] Inventors: **Larry L. Hood, Laguna Hills; Gregg Hughes, El Toro, both of Calif.**

[73] Assignee: **Advanced Osseous Technologies, Inc., Aliso Viejo, Calif.**

[**] Term: **14 Years**

[21] Appl. No.: **714,076**

[22] Filed: **Jun. 11, 1991**

[52] U.S. Cl. **D24/144; D24/146**

[58] Field of Search **D8/47, 101, 90; 606/79, 606/83, 169; 604/22; 128/24 AA, 24 A; 30/168, 161, 167; D24/146, 147, 170, 231, 232**

[56] References Cited

U.S. PATENT DOCUMENTS

2,714,890	8/1955	Vang .	
3,086,288	4/1963	Balamuth et al. .	
3,526,219	9/1970	Balamuth .	
3,589,363	6/1971	Banko et al. .	
3,693,613	9/1972	Kelman .	
3,809,977	5/1974	Balamuth et al. .	
3,823,717	7/1974	Pohlman et al. .	
3,862,630	1/1975	Balamuth .	
3,990,452	11/1976	Murray et al. .	
4,041,947	8/1977	Weiss et al. .	
4,063,557	12/1977	Wuchinich et al. .	
4,184,510	1/1980	Murry et al. .	
4,188,952	2/1980	Loschilov et al. .	
4,248,232	2/1981	Engelbrecht et al. .	
4,298,074	11/1981	Mattchen .	
4,425,115	1/1984	Wuchinich .	
4,497,320	2/1985	Nicholson et al.	606/79
4,705,038	11/1987	Sjostrom et al. .	
4,705,500	11/1987	Reimels et al. .	
4,750,488	6/1988	Wuchinich et al. .	
4,832,683	5/1989	Idemoto et al. .	
4,834,081	5/1989	Van Zile .	
4,846,161	7/1989	Roger .	
5,019,083	5/1991	Klapper et al. .	

OTHER PUBLICATIONS

"Orthopedic Catalog" Richards Manufacturing Inc. pp. 10, 14, 20 ©1981.

"Complete Replacement Arthroplasty of the Hip by the Ring Prosthesis", The Journal of Bone and Joint Surgery, P. A. Ring, pp. 720-731 (British) vol. 50B, No. 4, Nov. 1968.

"A New Technique for Removal of Broken Femoral Stem in Total Hip Replacement" by William H. Harris, et al., The Journal of Bone and Joint Surgery, vol. 63-A, No. 5, Jun. 1981.

Biological Fixation of the Porocoat AML® Hip—Manual for Pre-Operative Planning and Recommended Surgical Technique (1984) by Charles A. Engh, M.D. and J. Dennis Bobyn, Ph.D.

"Proximal Femoral Osteotomy in Difficult Revision Hip Surgery: How to Revise the Unrevisable" by Hugh H. Cameron, Ph.D., Contemporary Orthopaedics, May 1989, vol. 18, No. 5.

Photographs 1-3 illustrating an ultrasonic aspiration surgical tool used in neural surgery, designed by Dr. David Wuchinich and disclosed in 1967.

Photographs 4-15 illustrating three ultrasonic surgical tools manufactured by Quinton and distributed by Howmedica, Inc. in 1985.

Primary Examiner—A. Hugo Word

Assistant Examiner—I. Simmons

Attorney, Agent, or Firm—Knobbe, Martens, Olson & Bear

[57] CLAIM

The ornamental design for an ultrasonic cutting tool for medical use, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an ultrasonic cutting tool for medical use showing my new design;

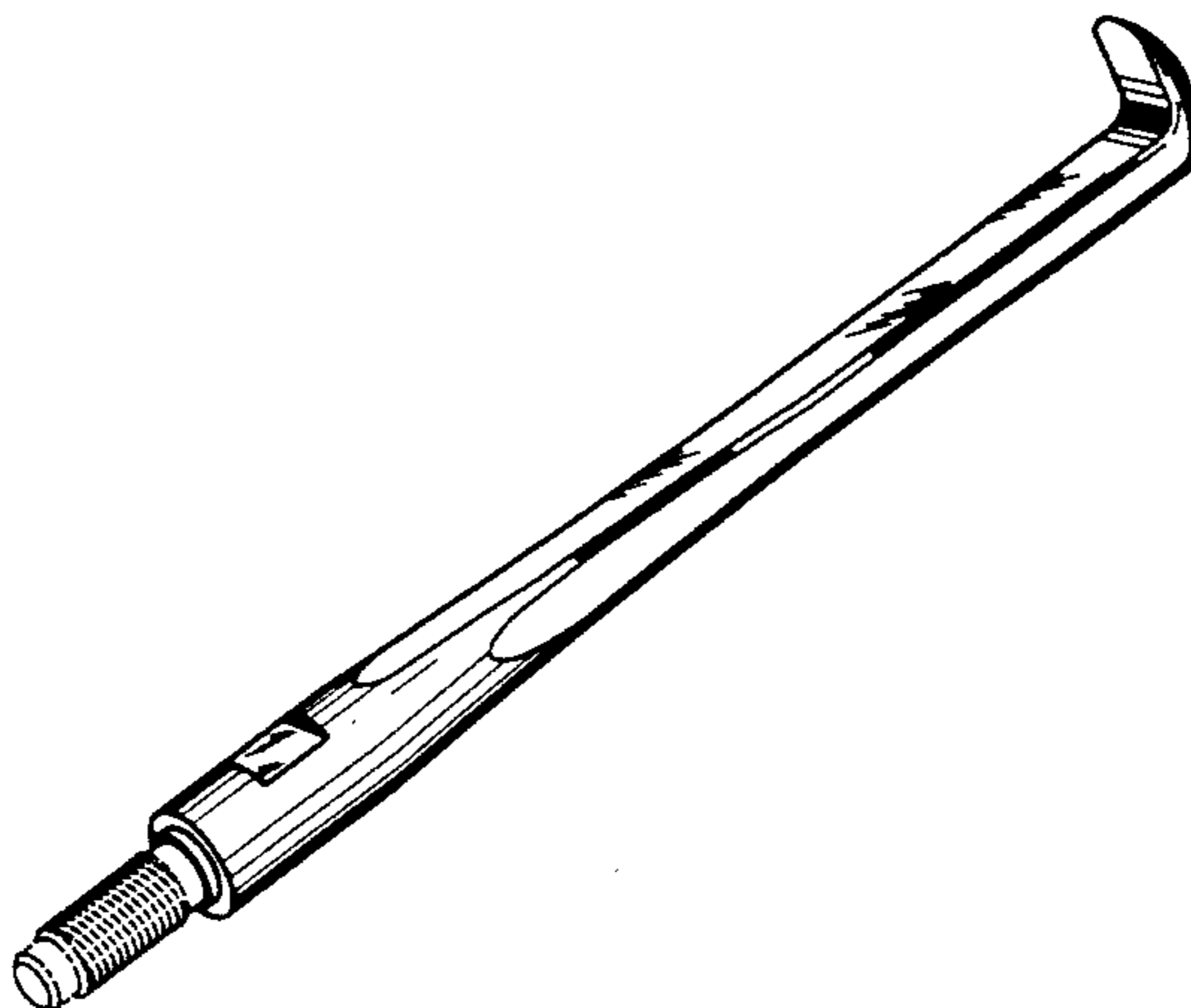
FIG. 2 is a top plan view thereof;

FIG. 3 is a side elevational view thereof, the view opposite to that disclosed in FIG. 3 is identical to that shown in FIG. 3;

FIG. 4 is an end elevational view thereof; and,

FIG. 5 is an end elevational view opposite that shown in FIG. 4.

The broken line showing the connector in FIGS. 1-3 is for illustrative purposes only and forms no part of the claimed design.



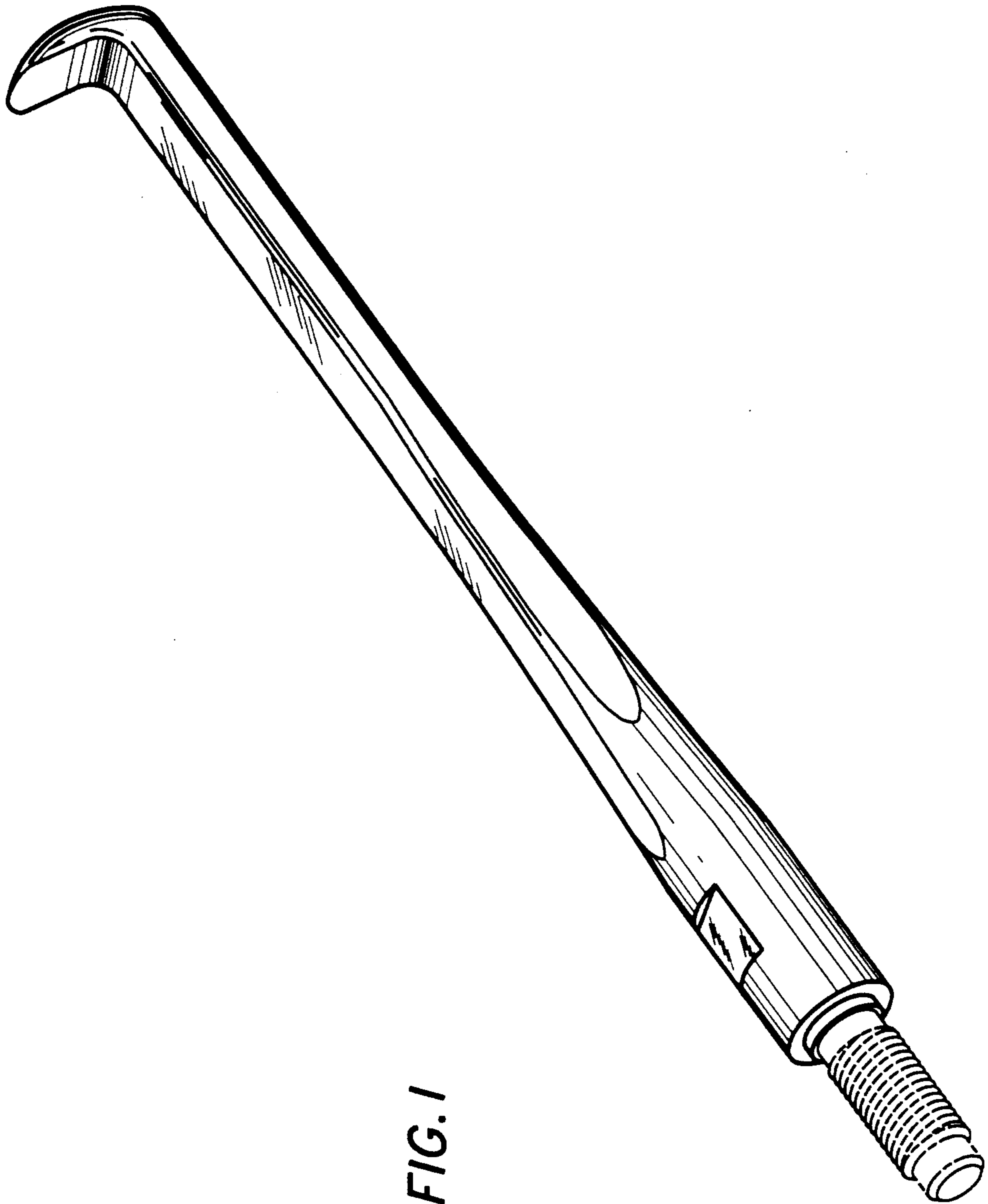


FIG. 1

FIG. 2

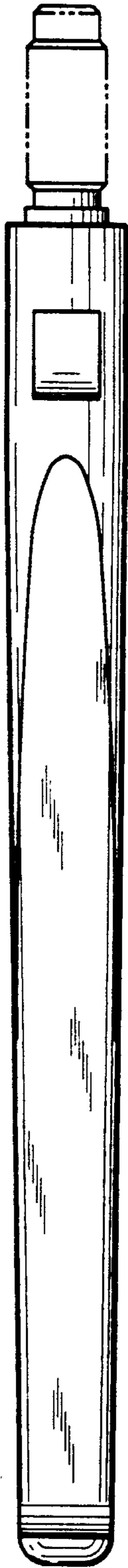


FIG. 3

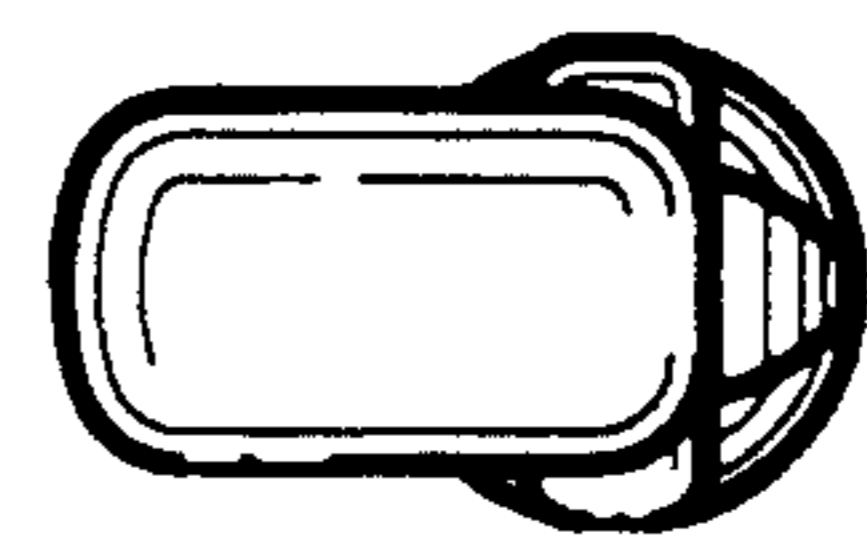


FIG. 4

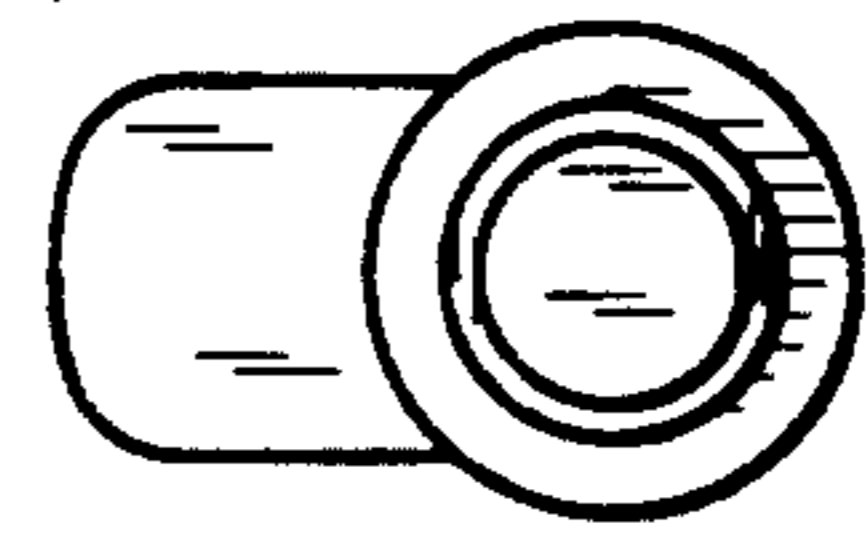


FIG. 5