



US00D387161S

United States Patent [19]

Ferragamo et al.

[11] Patent Number: Des. 387,161

[45] Date of Patent: **Dec. 2, 1997

- [54] **SURGICAL SUTURE KNOT PUSHER WITH HOOKS**
- [75] Inventors: **Michael C. Ferragamo**, North Dighton;
Joseph H. Sklar, Longmeadow;
Charles H. Brown, Jr., Wellesley, all of Mass.
- [73] Assignee: **Acufex Microsurgical, Inc.**, Mansfield, Mass.
- [**] Term: **14 Years**
- [21] Appl. No.: **48,824**
- [22] Filed: **Jan. 2, 1996**

Related U.S. Application Data

- [60] Continuation of Ser. No. 39,909, Jun. 7, 1995, abandoned, which is a division of Ser. No. 4,867, Feb. 16, 1993, Pat. No. Des. 359,355.
- [51] **LOC (6) Cl.** **24-02**
- [52] **U.S. Cl.** **D24/145**
- [58] **Field of Search** D24/145, 133,
D24/147; 606/148, 146, 141, 144, 147,
143, 142

[56] References Cited

U.S. PATENT DOCUMENTS

- D. 353,002 11/1994 Tovey D24/133
- D. 360,688 7/1995 Ferragamo et al. D24/145
- 2,595,086 4/1952 Larzelere .
- 3,763,860 10/1973 Clarke .
- 4,602,635 7/1986 Mulhollan et al. .
- 4,923,461 5/1990 Caspari et al. .
- 4,935,027 6/1990 Yoon .
- 4,961,741 10/1990 Hayhurst .
- 5,053,043 10/1991 Gottesman et al. .
- 5,084,058 1/1992 Li .
- 5,176,691 1/1993 Pierce .
- 5,192,287 3/1993 Fournier et al. .
- 5,201,744 4/1993 Jones .
- 5,234,445 8/1993 Walker et al. .
- 5,250,054 10/1993 Li .

- 5,269,791 12/1993 Magzels et al. .
- 5,282,809 2/1994 Rammerer et al. .
- 5,290,300 3/1994 Cosgrove et al. .
- 5,292,327 3/1994 Dodd et al. .
- 5,403,330 4/1995 Tuason D24/148

FOREIGN PATENT DOCUMENTS

- 0305885 6/1971 U.S.S.R. .
- 0929090 5/1982 U.S.S.R. .

OTHER PUBLICATIONS

- Jensen, M.L., "Review of Present Treatments for Torn Menisci and Design of New Arthroscopic Suturing Instruments for Meniscus Repair," Mit Thesis, pp. 50-51 (May, 1983).
- Bartlett, E. C., MD "Principles of Knot Delivery in Intra-articular Suturing for Arthroscopic Procedures." American Journal of Arthroscopy pp. 13-15 (vol. 1, No. 6, Aug., 1991).
- Arthrex Brochure (1991) p. 26.
- Primary Examiner*—Louis S. Zarfes
- Assistant Examiner*—Frank Martinez
- Attorney, Agent, or Firm*—Fish & Richardson P.C.

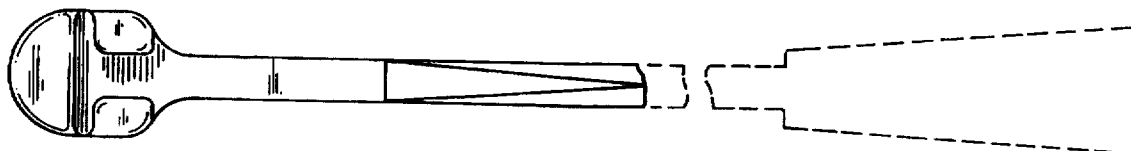
[57] CLAIM

The ornamental design for a surgical suture knot pusher with hooks, as shown and described.

DESCRIPTION

FIG. 1 is a top plan view of a surgical suture knot pusher with hooks, showing our new design;
 FIG. 2 is a side elevational view thereof;
 FIG. 3 is a front elevational view thereof;
 FIG. 4 is a side elevational view thereof, opposite that shown in FIG. 2;
 FIG. 5 is bottom plan view thereof; and,
 FIG. 6 is a cross-sectional view thereof, taken along the line 6-6 of FIG. 4.
 The broken line showing of the shaft in the FIGS. 1, 2, 4 and 5 is for illustrated purposes only and forms no part of the claimed design.

1 Claim, 1 Drawing Sheet



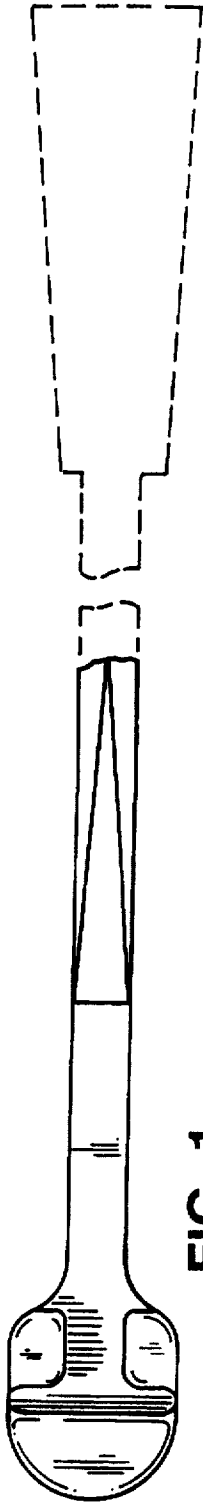


FIG. 1



FIG. 2

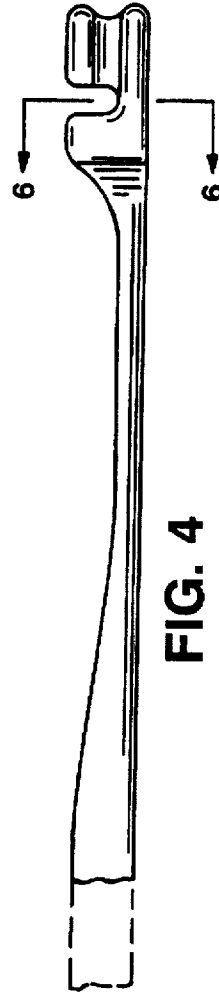


FIG. 4

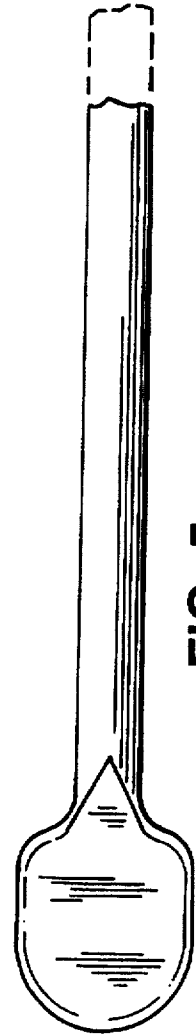


FIG. 5



FIG. 3



FIG. 6