

United States Patent [19]

Kijima et al.

[11] Patent Number: Des. 316,448

[45] Date of Patent: ** Apr. 23, 1991

[54] **ULTRASONIC ASPIRATOR FOR
MICROSCOPIC NEUROSURGERY**

[75] Inventors: Masaichi Kijima, Tokyo; Nobumichi
Yajima, Nagano, both of Japan

[73] Assignees: Aloka Co., Ltd., Tokyo; Ueda Japan
Radio Co., Ltd., Nagano, both of
Japan

[**] Term: 14 Years

[21] Appl. No.: 176,391

[22] Filed: Mar. 31, 1988

[30] Foreign Application Priority Data

Oct. 2, 1987 [JP] Japan 62-40561
[52] U.S. Cl. D24/26
[58] Field of Search D24/26, 28, 51;
128/24 A; 606/169; 604/22

[56] References Cited

U.S. PATENT DOCUMENTS

4,169,984 10/1979 Parisi 128/24 A X
4,526,571 7/1985 Wuchinich 606/169 X
4,634,419 1/1987 Kriezuan et al. 128/24 A X
4,747,820 5/1988 Hornlein et al. 128/24 A X

Primary Examiner—Stella Reid
Attorney, Agent, or Firm—Koda and Androlia

[57] CLAIM

The ornamental design for an ultrasonic aspirator for
microscopic neurosurgery, as shown and described.

DESCRIPTION

FIG. 1 is a top, front and left perspective view of an
ultrasonic aspirator for microscopic neurosurgery
showing our new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a top plan view thereof;

FIG. 5 is a bottom plan view thereof;

FIG. 6 is a left side elevational view thereof; and

FIG. 7 is a right side elevational view thereof.

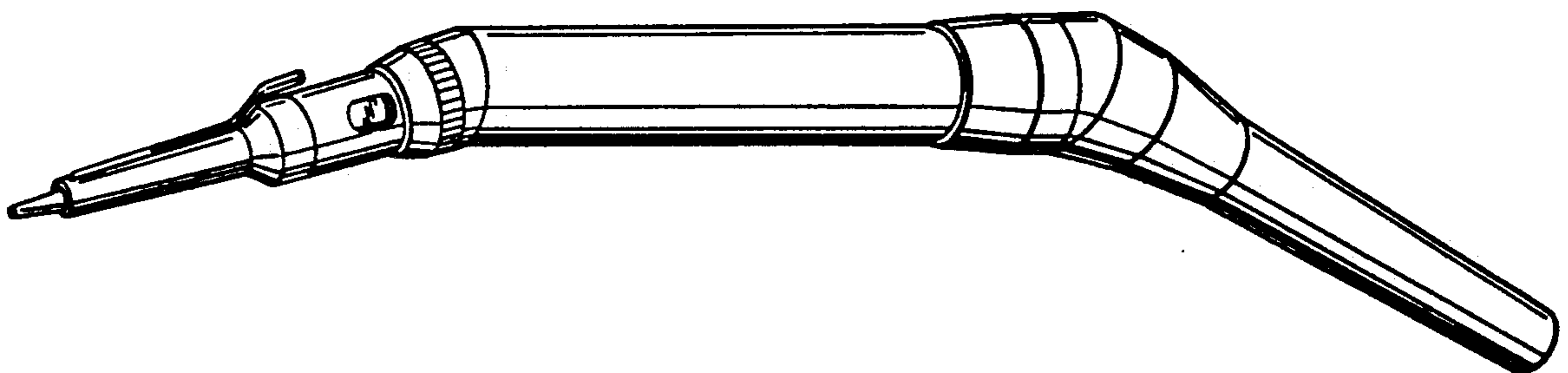


FIG. 1

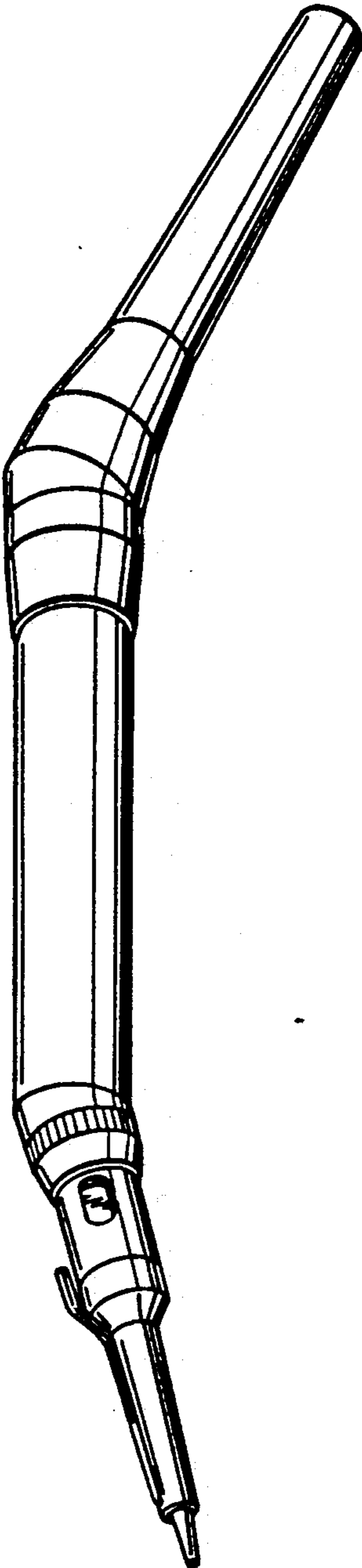


FIG. 2

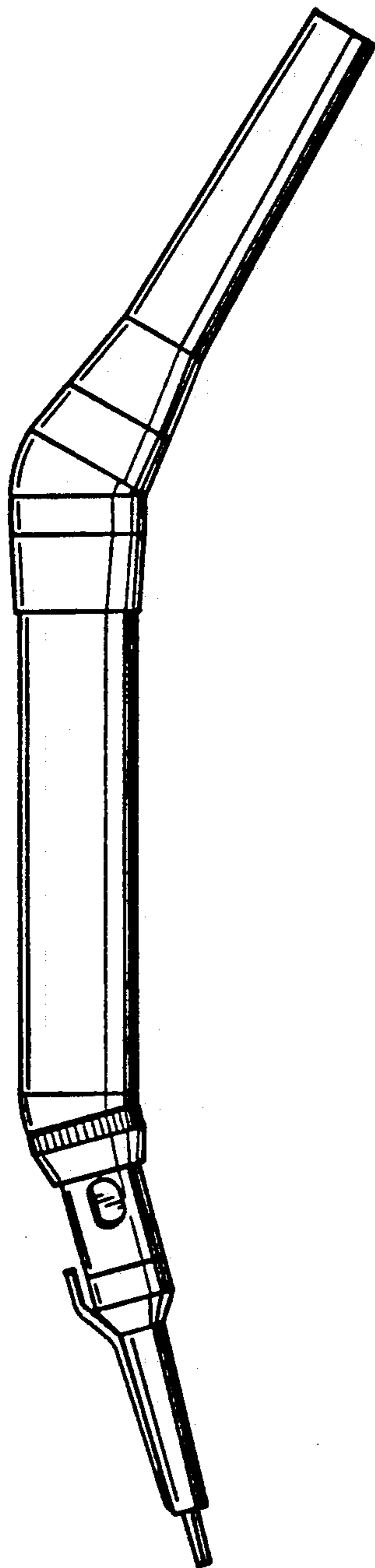


FIG. 3

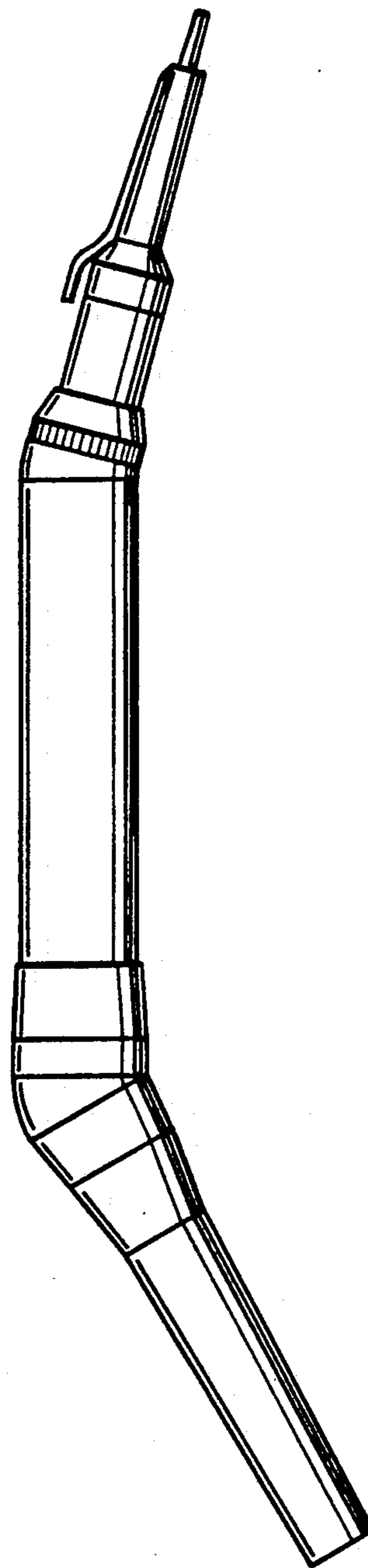


FIG. 4

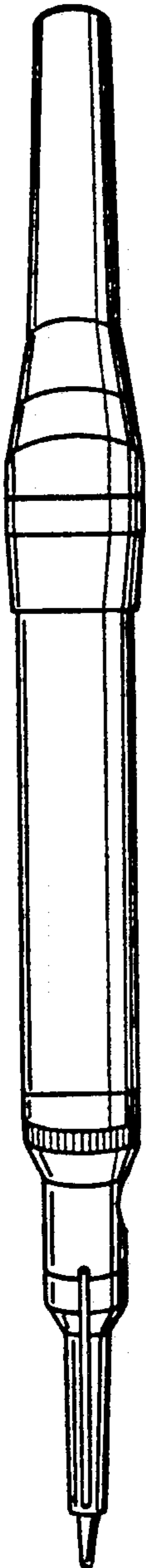


FIG. 5



FIG. 6

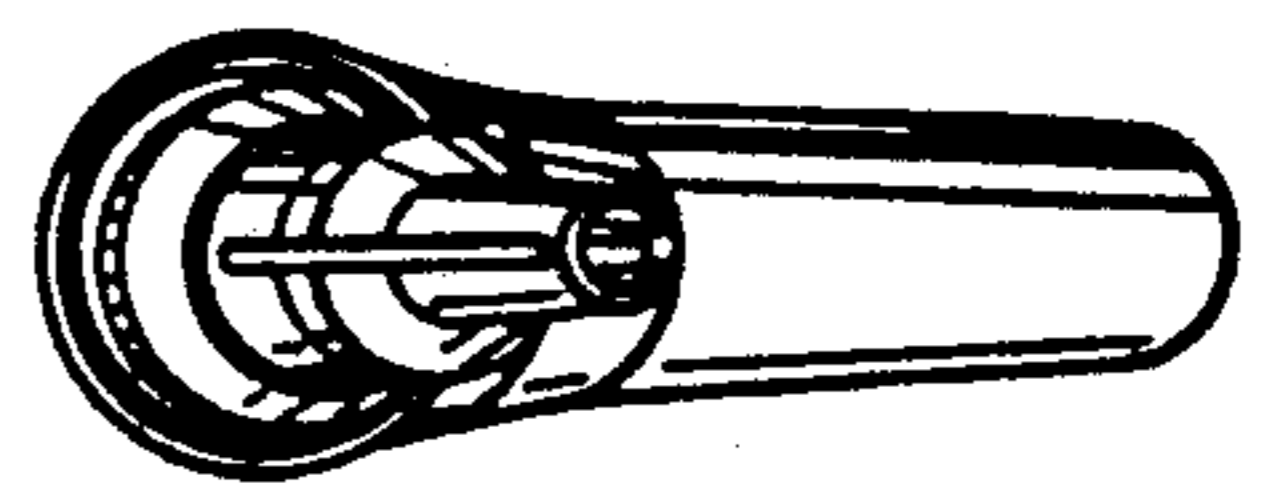


FIG. 7

