



US00D378764S

# United States Patent [19]

Araki et al.

[11] Patent Number: **Des. 378,764**

[45] Date of Patent: **\*\*Apr. 8, 1997**

[54] **INK REFILL FOR A BALL-POINT PEN**

[75] Inventors: **Toshio Araki; Hideyuki Tanaka**, both of Aichi, Japan

[73] Assignee: **The Pilot Ink Co., Ltd.**, Nagoya, Japan

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

[21] Appl. No.: **46,456**

[22] Filed: **Nov. 15, 1995**

[30] **Foreign Application Priority Data**

May 15, 1995 [JP] Japan ..... 7-13524

[52] **U.S. Cl.** ..... **D19/54; D19/51; D19/57; D19/43**

[58] **Field of Search** ..... **D19/35, 36, 41-51, D19/53-58, 81-85; 401/210, 217, 222-224, 221, 99-101**

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

- D. 263,622 3/1982 Hasson ..... D19/51 X
- D. 300,640 4/1989 Colette et al. .... D19/51
- D. 301,202 5/1989 Canet ..... D19/51 X
- D. 332,626 1/1993 Wada et al. .... D19/43 X
- D. 363,308 10/1995 Sekine ..... D19/48
- D. 364,422 11/1995 Diresta ..... D19/36

*Primary Examiner*—Martie Thompson

*Attorney, Agent, or Firm*—Sughrue, Mion, Zinn, Macpeak & Seas

[57] **CLAIM**

The ornamental design for an ink refill for a ball-point pen, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of the top, front and one end of an ink refill for a ball-point pen showing our new design; FIG. 2 is a side elevational view thereof, the opposite side being a mirror image thereof;

FIG. 3 is a side elevational view rotated 90 degrees from the showing of FIG. 2, the opposite side being a mirror image thereof;

FIG. 4 is an end elevational view thereof;

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

FIG. 6 is a side elevational view with the cap member removed for convenience of illustration, the opposite side being a mirror image thereof;

FIG. 7 is a side elevational view rotated 90 degrees from the showing of FIG. 6, the opposite side being a mirror image thereof;

FIG. 8 is an end elevational view of FIG. 6;

FIG. 9 is an end elevational view of the end opposite that shown FIG. 8;

FIG. 10 is a top plan view of the cap member with the refill body removed for convenience of illustration;

FIG. 11 is a side elevational view of FIG. 10; and,

FIG. 12 is a bottom plan view of FIG. 10.

**1 Claim, 2 Drawing Sheets**

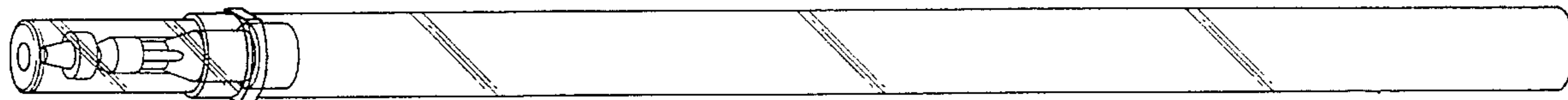


FIG. 1

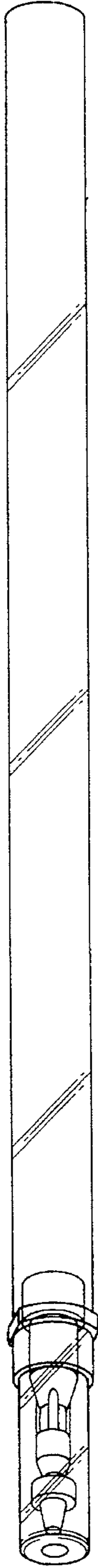


FIG. 2

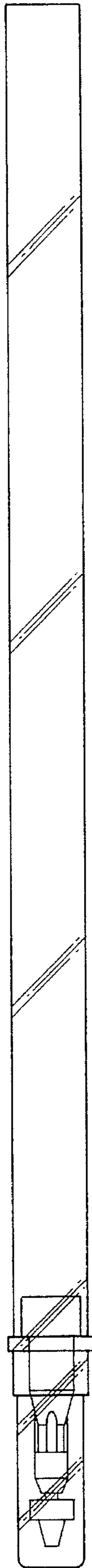


FIG. 3



FIG. 4 FIG. 5



FIG. 6

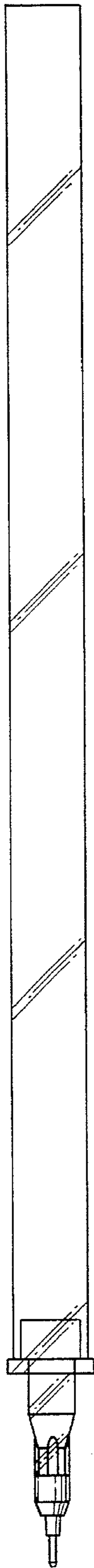


FIG. 7

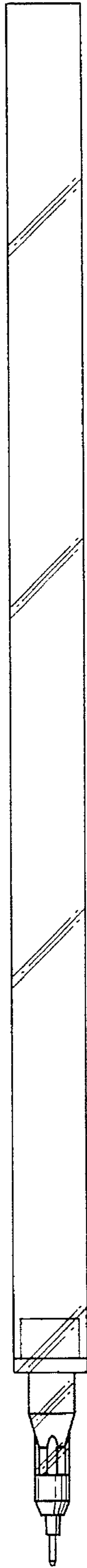


FIG. 8

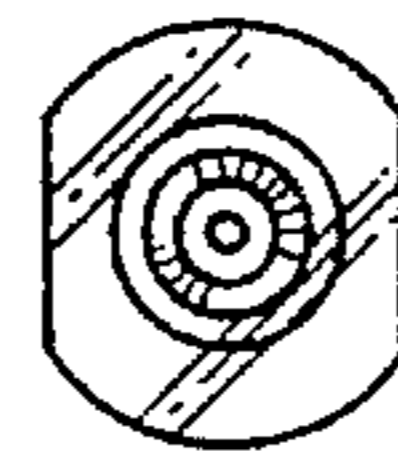


FIG. 9



FIG. 10

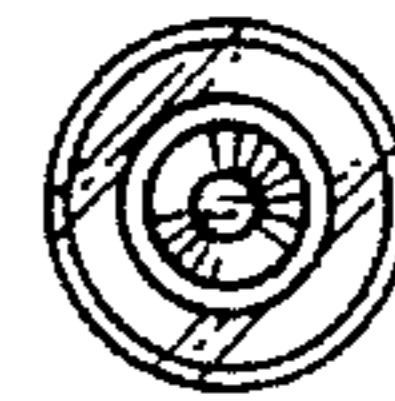


FIG. 11

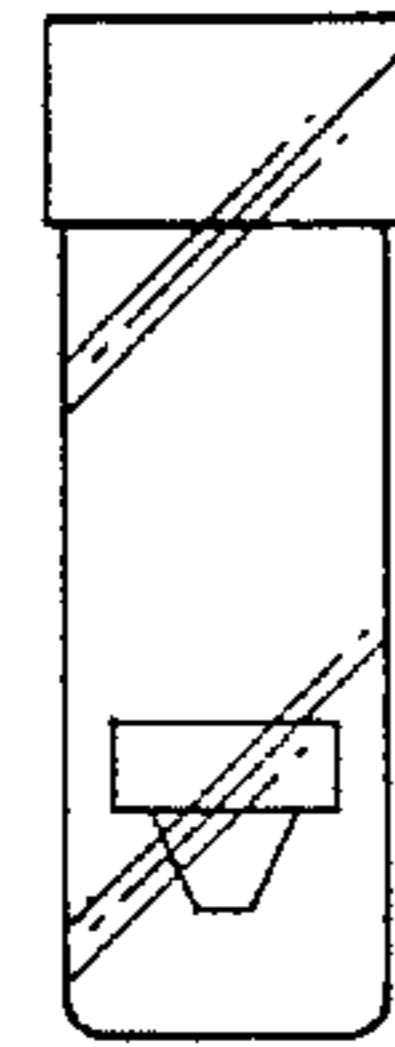


FIG. 12

