

US00D646063S

(12) **United States Design Patent**  
**Ballmaier et al.**

(10) **Patent No.:** **US D646,063 S**  
(45) **Date of Patent:** **\*\* Oct. 4, 2011**

(54) **MANUAL TOOTHBRUSH**

(75) Inventors: **Kathi Ballmaier**, Wehrheim (DE);  
**Gerhard Schäfer**, Frankfurt (DE);  
**Sören Wasow**, Freigericht (DE);  
**Tilmann Winkler**, Kronberg (DE)

(73) Assignee: **The Procter & Gamble Company**,  
Cincinnati, OH (US)

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/387,795**

(22) Filed: **Mar. 18, 2011**

(51) **LOC (9) Cl.** ..... **04-02**

(52) **U.S. Cl.** ..... **D4/104**

(58) **Field of Classification Search** ..... D4/101,  
D4/104–112, 132–134, 136, 138; D24/146,  
D24/147, 152; 15/110, 143.1, 167.1, 167.2,  
15/186–188; 16/110.1, 430, 431, DIG. 12,  
16/DIG. 19; 132/308–311; 601/139, 141  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

|          |   |   |         |                   |       |        |
|----------|---|---|---------|-------------------|-------|--------|
| D172,693 | S | * | 7/1954  | Wibbelsman et al. | ..... | D4/104 |
| D209,736 | S | * | 1/1968  | Halm              | ..... | D4/104 |
| D276,005 | S | * | 10/1984 | Fido              | ..... | D4/104 |
| D369,471 | S | * | 5/1996  | Schneider         | ..... | D4/104 |
| D506,873 | S | * | 7/2005  | Kling             | ..... | D4/104 |
| D514,325 | S | * | 2/2006  | Moskovich et al.  | ..... | D4/104 |
| D514,813 | S | * | 2/2006  | Moskovich et al.  | ..... | D4/104 |
| D582,682 | S | * | 12/2008 | Kling et al.      | ..... | D4/104 |
| D621,160 | S | * | 8/2010  | Ballmaier et al.  | ..... | D4/104 |
| D628,808 | S | * | 12/2010 | Xi et al.         | ..... | D4/108 |

**FOREIGN PATENT DOCUMENTS**

KR 30-0465410 S \* 10/2007

\* cited by examiner

*Primary Examiner* — Melanie H Tung

*Assistant Examiner* — Lavone D Tabor

(74) *Attorney, Agent, or Firm* — David Weirich; Julie A. Glazer; Kim W. Zerby

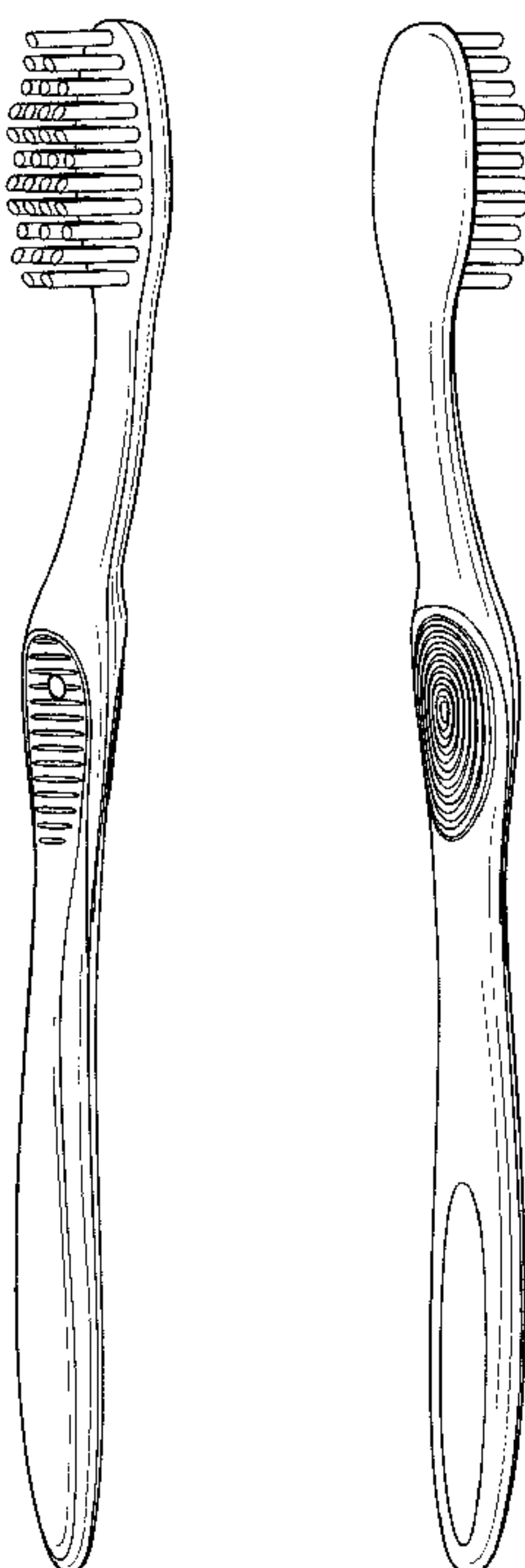
(57) **CLAIM**

The ornamental design for a manual toothbrush, as shown and described above.

**DESCRIPTION**

FIG. 1 is a perspective view of a manual toothbrush;  
FIG. 2 is an alternative perspective view thereof;  
FIG. 3 is a front view thereof;  
FIG. 4 is a rear view thereof;  
FIG. 5 is a left side view thereof;  
FIG. 6 is a right side view thereof;  
FIG. 7 is a top plan view thereof;  
FIG. 8 is a bottom view thereof.  
FIG. 9 is a perspective view of an alternative embodiment of a manual toothbrush;  
FIG. 10 is an alternative perspective view of the manual toothbrush shown in FIG. 9;  
FIG. 11 is a front view thereof;  
FIG. 12 is a rear view thereof;  
FIG. 13 is a left side view thereof;  
FIG. 14 is a right side view thereof;  
FIG. 15 is a top plan view thereof; and,  
FIG. 16 is a bottom view thereof.

**1 Claim, 4 Drawing Sheets**



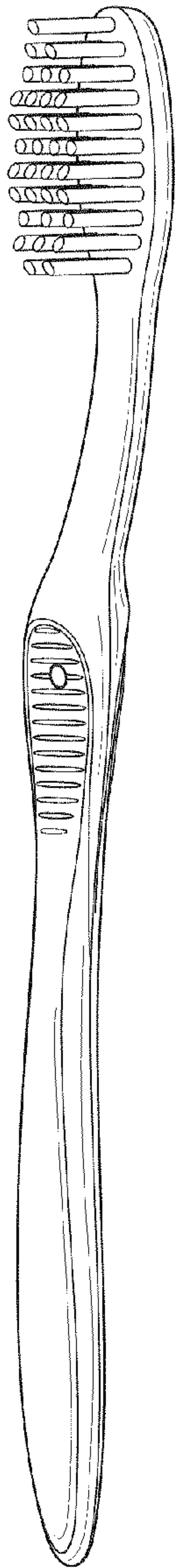


Fig. 1

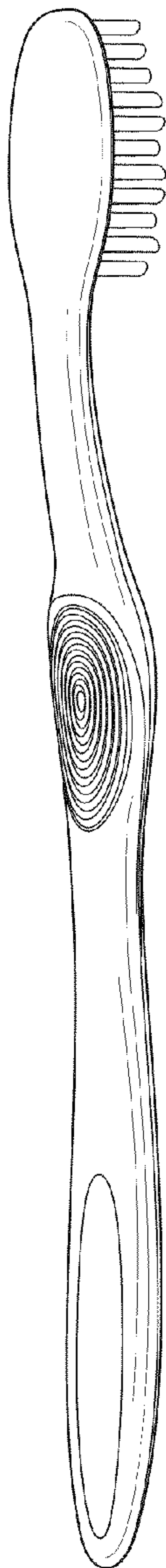


Fig. 2

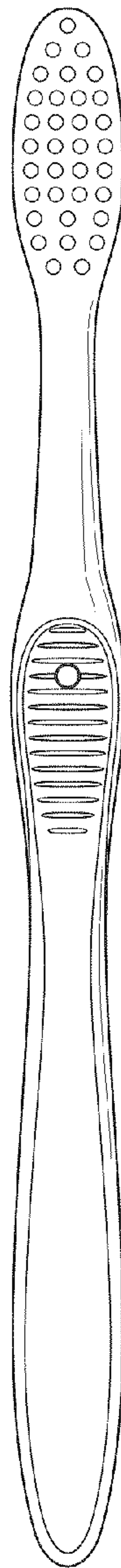


Fig. 3

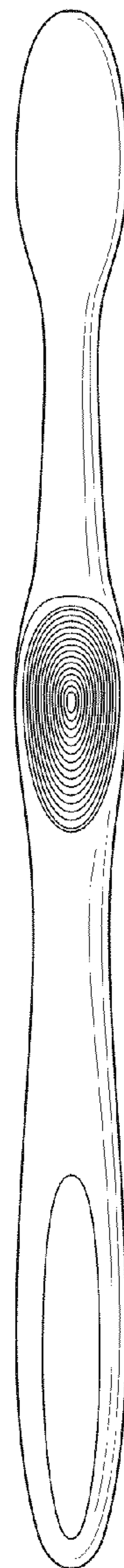


Fig. 4

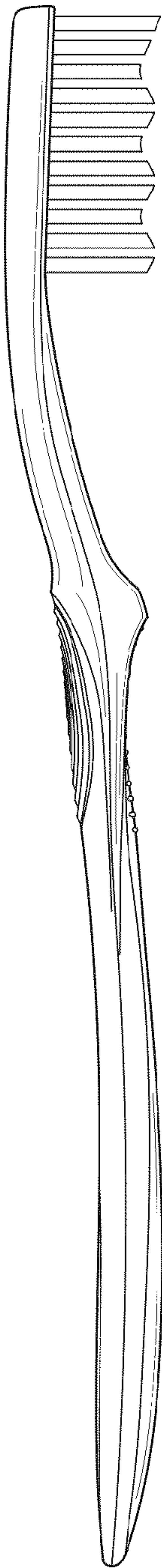


Fig. 5

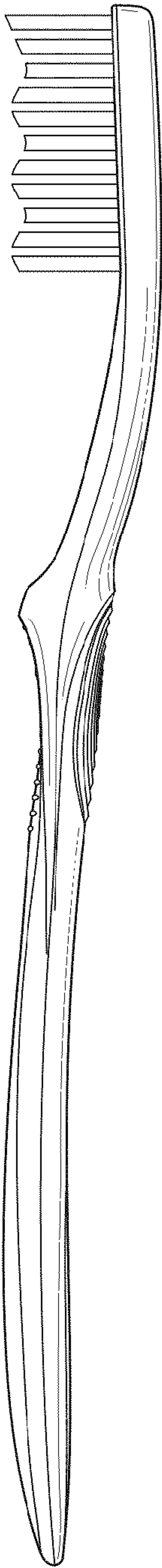


Fig. 6

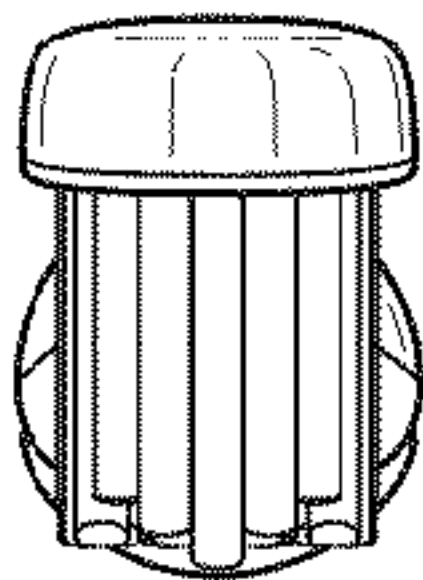


Fig. 7

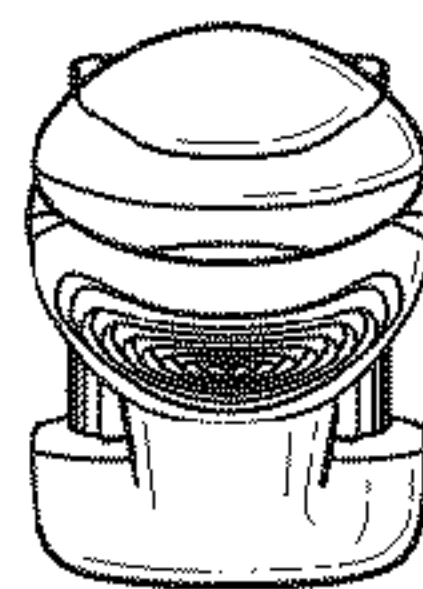


Fig. 8

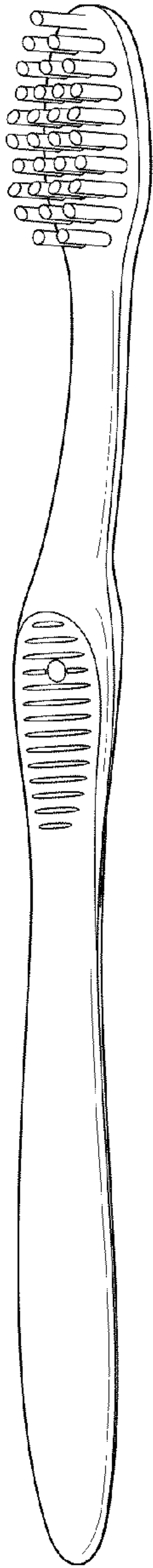


Fig. 9

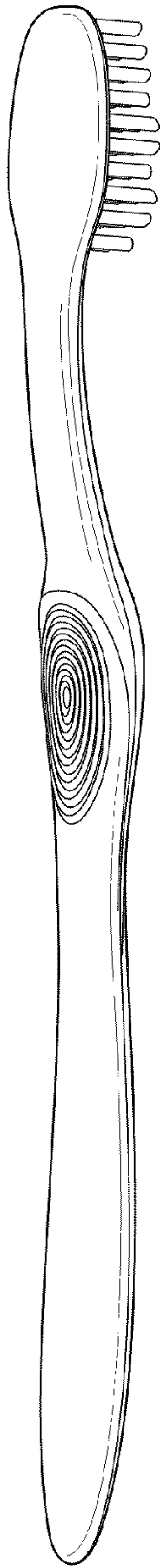


Fig. 10

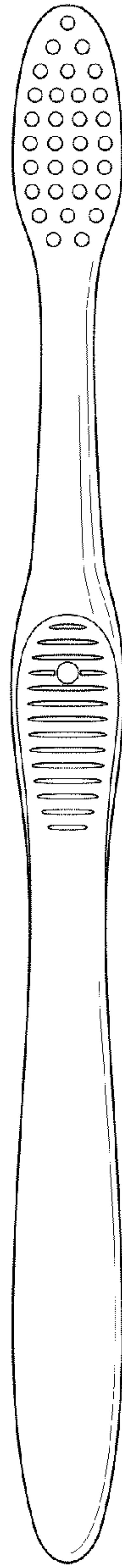


Fig. 11

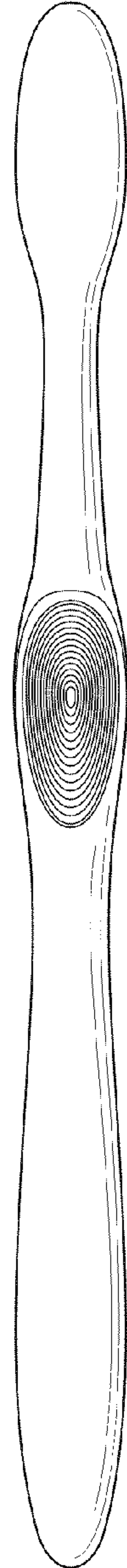


Fig. 12

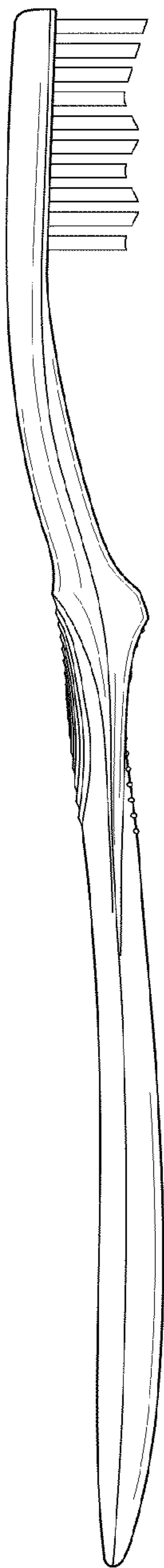


Fig. 13

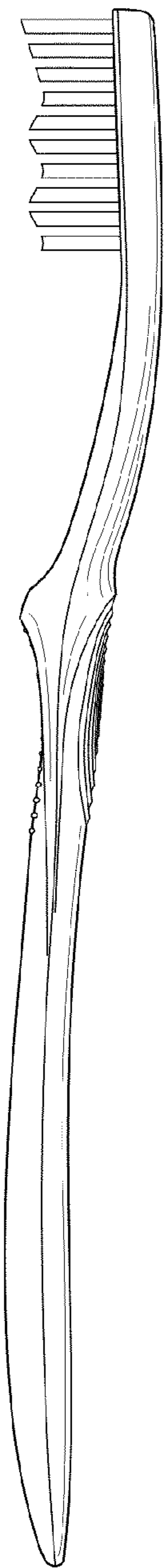


Fig. 14

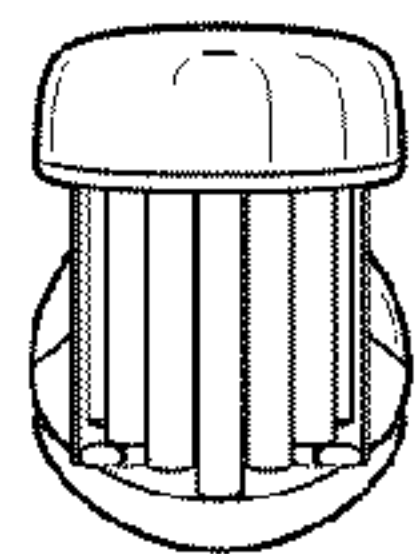


Fig. 15

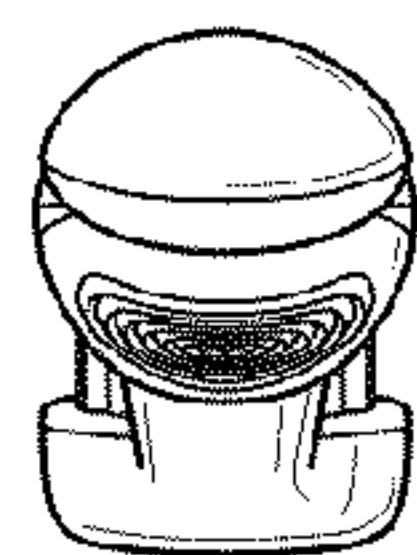


Fig. 16