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(12) **United States Design Patent** (10) **Patent No.:** **US D958,364 S**  
**Han et al.** (45) **Date of Patent:** **\*\* Jul. 19, 2022**

(54) <b>TOOTH CLEANER</b>	D691,377 S	10/2013	Zarrabi et al.
	D707,350 S	6/2014	Woodard et al.
(71) Applicant: <b>Shenzhen micro electric intelligence Co., LTD, Shenzhen (CN)</b>	D731,057 S	6/2015	Gitman
	D806,228 S	12/2017	Yan
	D806,229 S	12/2017	Uchida
(72) Inventors: <b>Fangmeng Han, Shenzhen (CN); Qimu Liang, Shenzhen (CN)</b>	D819,196 S	5/2018	Kim et al.
	D839,597 S	2/2019	Courtney et al.
	D839,599 S	2/2019	Courtney et al.
	D855,182 S *	7/2019	Ma ..... D24/152
(73) Assignee: <b>Shenzhen micro electric intelligence Co., LTD, Shenzhen (CN)</b>	D865,177 S	10/2019	Liu
	D884,893 S *	5/2020	Ma ..... D24/152
	D908,886 S	1/2021	Wang
	D940,322 S *	1/2022	Wang ..... D24/152
(**) Term: <b>15 Years</b>	2017/0079754 A1 *	3/2017	Sedillo ..... A61C 15/00

(21) Appl. No.: **29/796,715**

(22) Filed: **Jun. 25, 2021**

(51) **LOC (13) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/152**

(58) **Field of Classification Search**  
USPC ..... D24/111, 152, 176, 108  
CPC .. A61C 3/00; A61C 3/03; A61C 15/00; A61C 15/047; A61C 15/048; A61C 17/00; A61C 17/06; A61C 17/18; A61C 17/20; A61C 17/32

See application file for complete search history.

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*Primary Examiner* — Wan Laymon

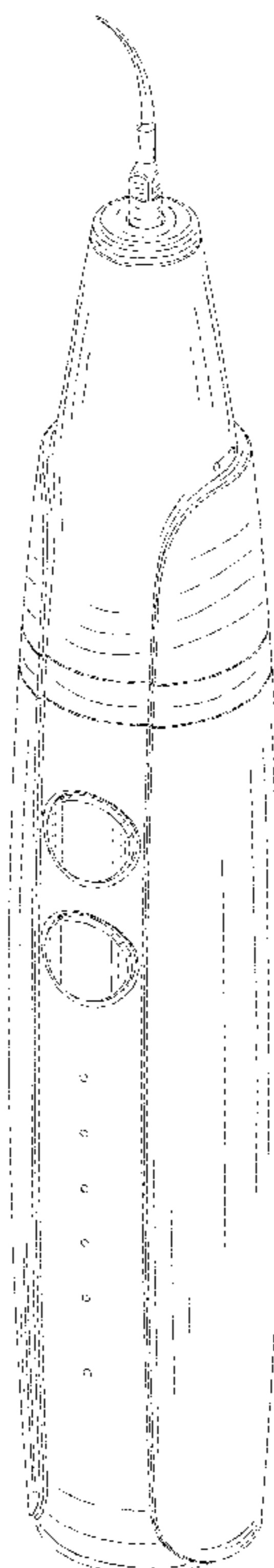
(57) **CLAIM**

The ornamental design for a tooth cleaner, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a tooth cleaner showing my new design;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a back elevation view thereof;  
FIG. 4 is a left-side view thereof;  
FIG. 5 is a right-side view thereof;  
FIG. 6 is a top plan view thereof; and,  
FIG. 7 is a bottom plan view thereof.  
The broken lines depict portions of the article that form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



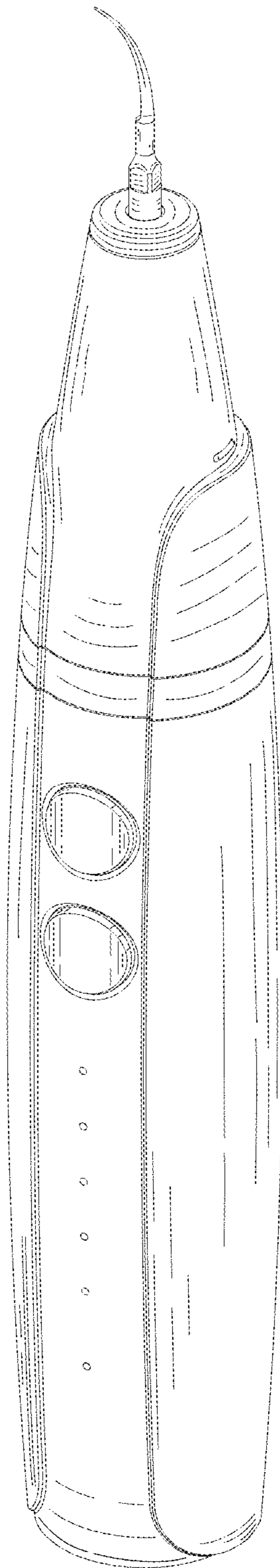


FIG.1

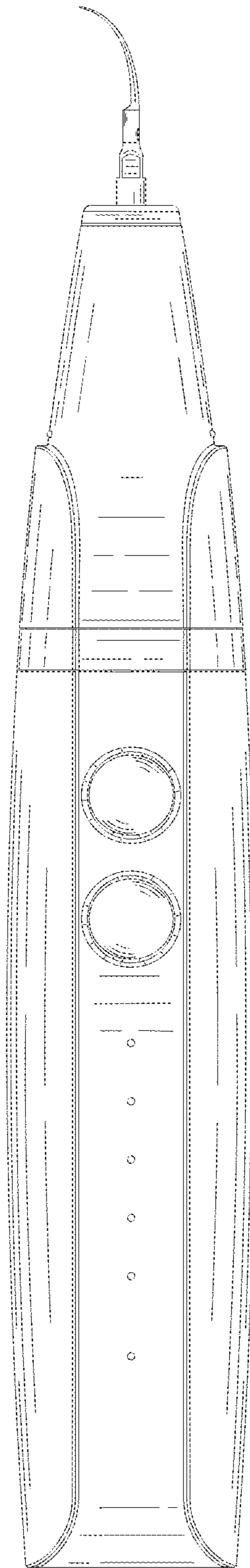


FIG.2

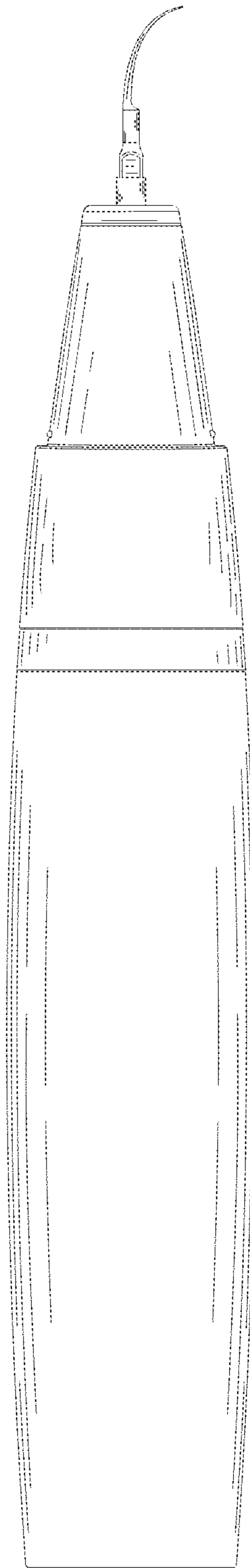


FIG.3

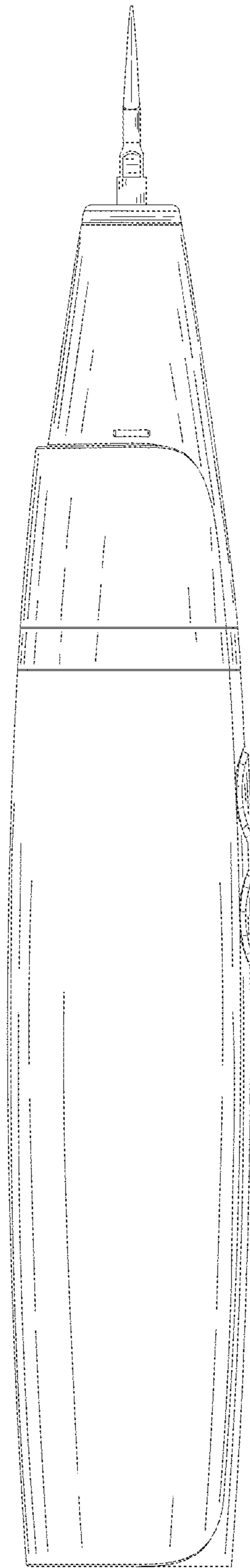


FIG.4

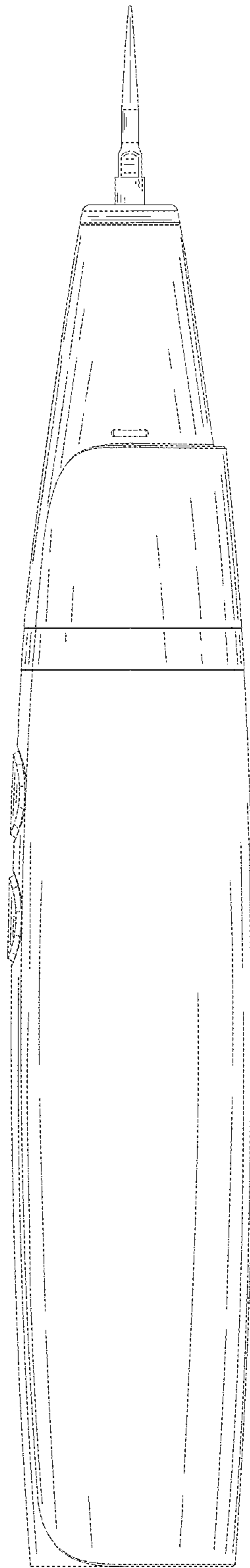


FIG.5

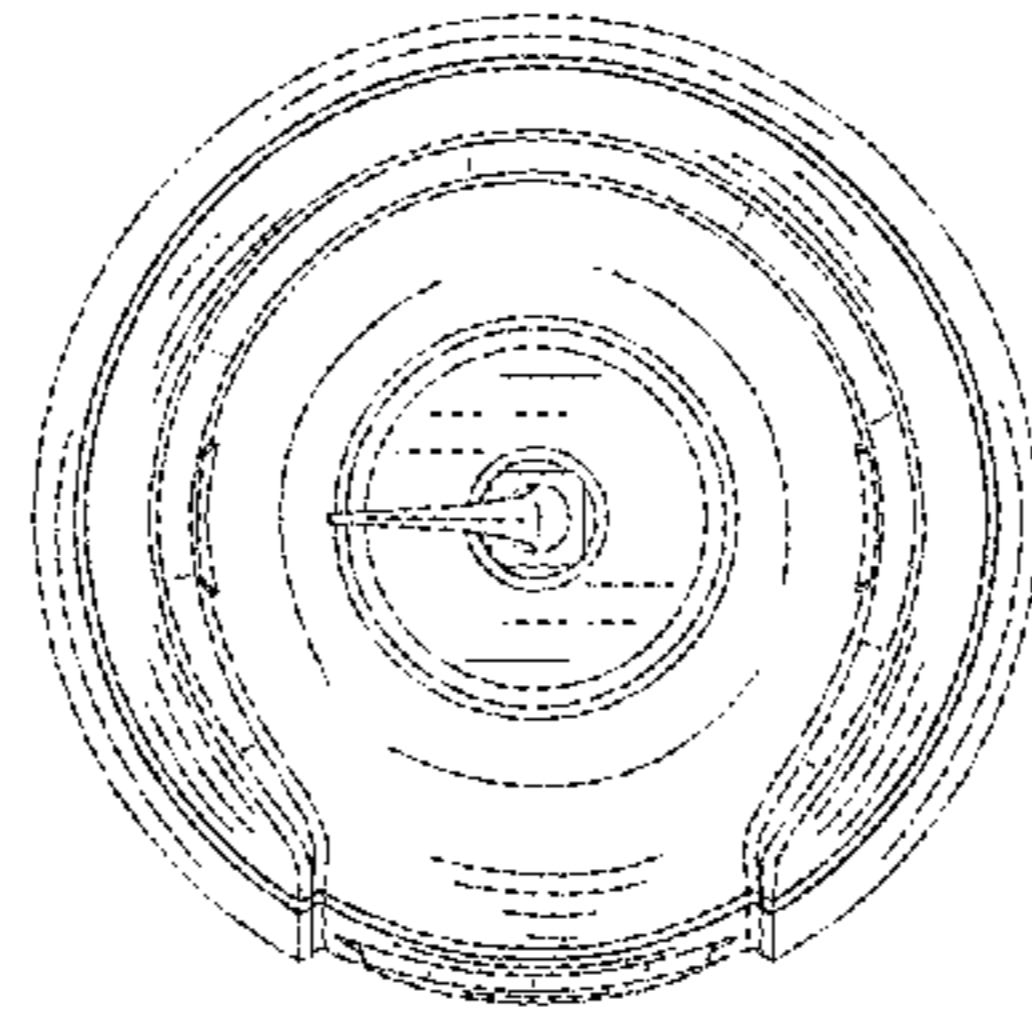


FIG.6

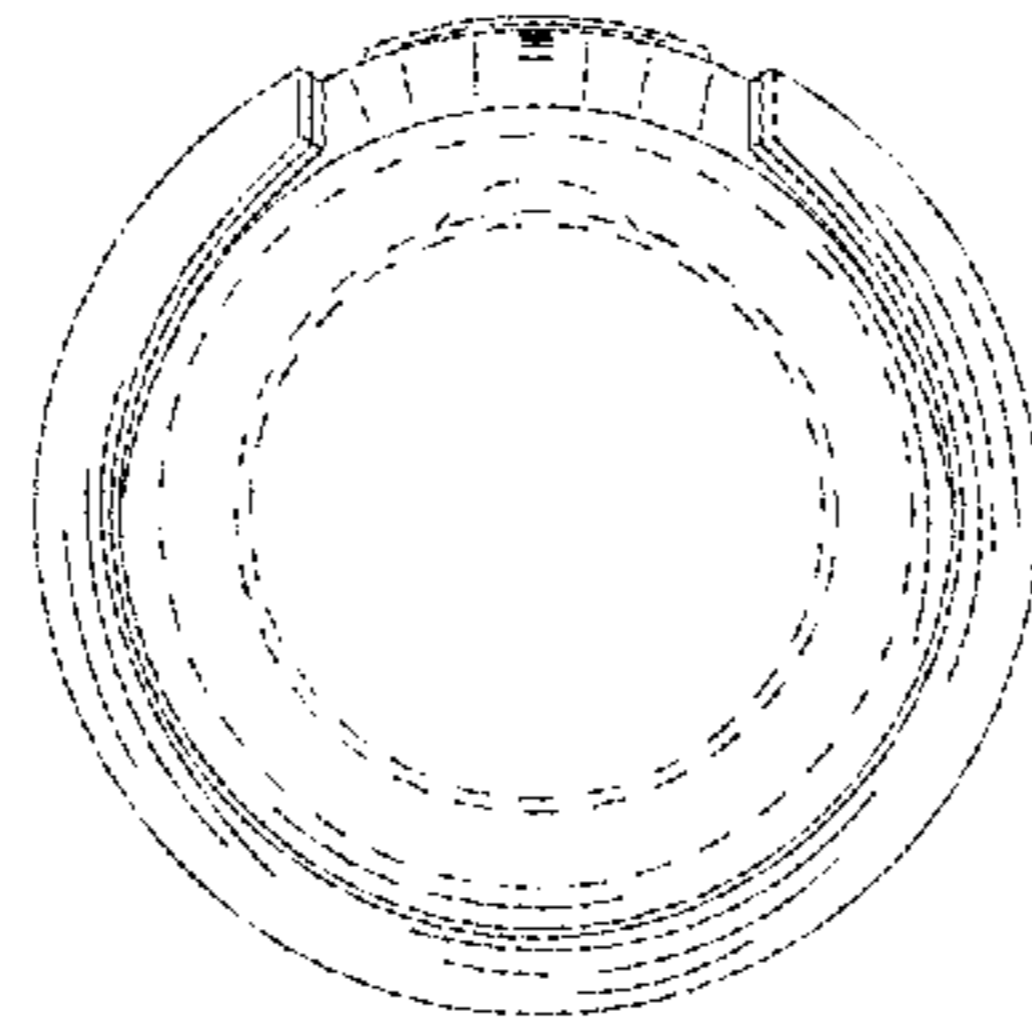


FIG.7