



US00D932011S

(12) **United States Design Patent** (10) **Patent No.:** **US D932,011 S**  
**Wang** (45) **Date of Patent:** **\*\* Sep. 28, 2021**

(54) **EAR CLEANER**  
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D529,817 S \* 10/2006 Francavilla ..... G01F 11/025  
D9/724  
D583,506 S \* 12/2008 Justice ..... D28/86  
D749,856 S \* 2/2016 Lee ..... D4/121  
D763,438 S \* 8/2016 Gouret ..... D24/112  
(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 202030253455.0 \* 9/2020 ..... 28/3

**OTHER PUBLICATIONS**

FCC ID, "C3 Bebird Smart Visual Ear-Clean Rod", first available Dec. 23, 2019. (<https://fccid.io/2AU63-C3/External-Photos/External-photos-4562168> (Year: 2019).\*)

(Continued)

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(\*\*) Term: **15 Years**  
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(51) **LOC (13) Cl.** ..... **24-01**  
(52) **U.S. Cl.**  
USPC ..... **D24/151**

(58) **Field of Classification Search**  
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D8/303; D9/723, 725, 726; D24/119,  
D24/127, 133, 135, 141, 151, 154, 173,  
D24/215, 231, 232; D28/58, 99  
CPC ..... A46B 5/00; A46B 5/0004; A46B 5/0016;  
A46B 5/026; A46B 7/10; A46B 13/001;  
A46B 13/02; A46B 13/023; A46B 13/08;  
A46B 2200/1006; A46B 2200/30; A46B  
2018/00327; A61Q 90/00; A61F 11/00;  
A61F 11/006

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D303,021 S \* 8/1989 Reichmann ..... D28/5  
6,325,076 B1 \* 12/2001 Ramirez ..... A45D 44/18  
132/308

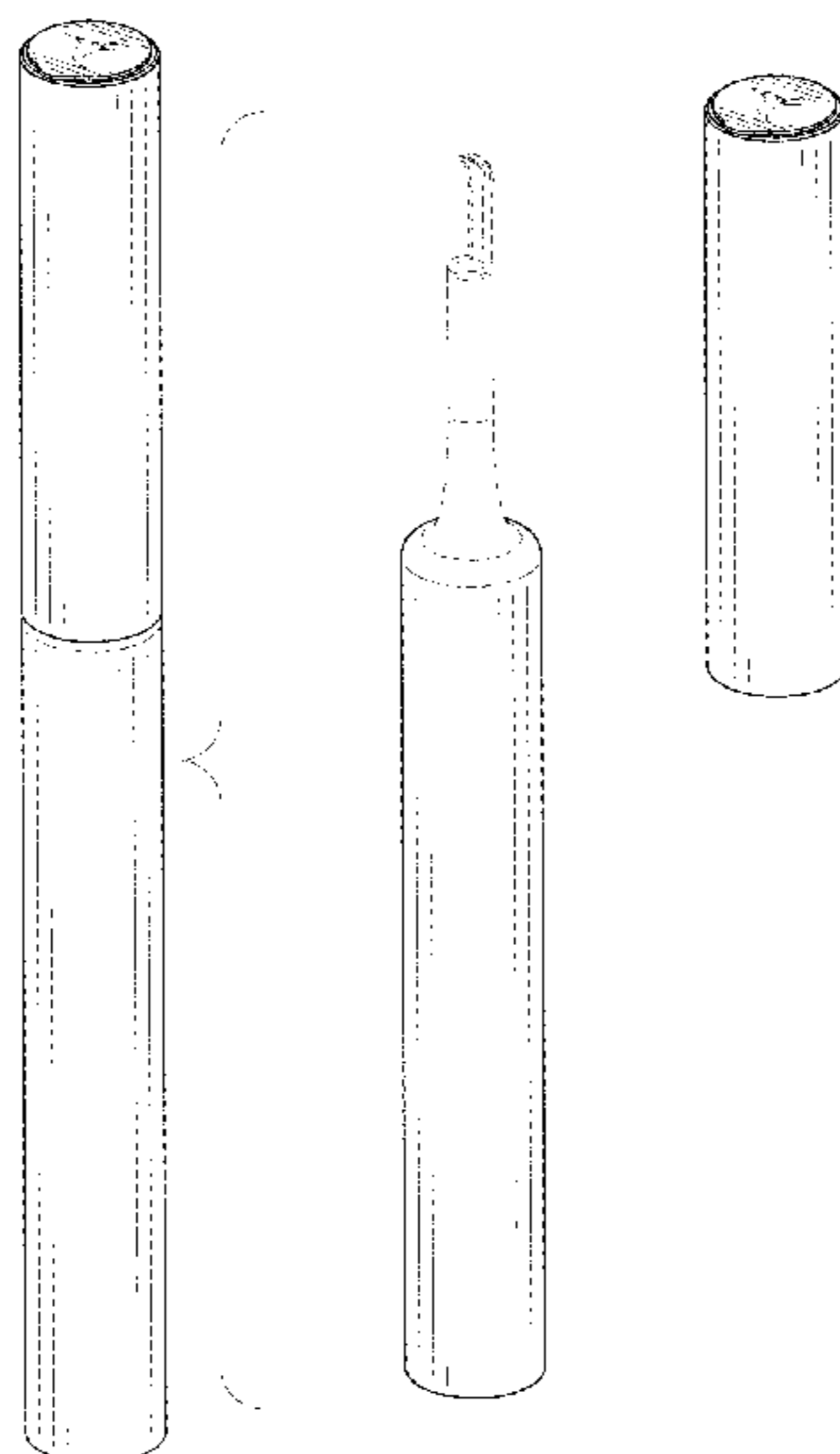
(57) **CLAIM**

The ornamental design for an ear cleaner, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an ear cleaner showing my new design;  
FIG. 2 is another perspective view thereof;  
FIG. 3 is a front elevational view thereof;  
FIG. 4 is a rear elevational view thereof;  
FIG. 5 is a left side elevational view thereof;  
FIG. 6 is a right side elevational view thereof;  
FIG. 7 is a top plan view thereof;  
FIG. 8 is a bottom plan view thereof;  
FIG. 9 is a perspective view of the ear cleaner with the cover separated; and,  
FIG. 10 is an enlarged view of FIG. 8.  
The broken lines in the drawings are for the purpose of illustrating portions of the ear cleaner that form no part of the claimed design.

**1 Claim, 10 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D768,291 S \* 10/2016 Carota ..... D24/119  
D827,450 S \* 9/2018 Loukov ..... D9/726  
D851,333 S \* 6/2019 Nagata ..... D28/89  
D854,744 S \* 7/2019 Tanaka ..... D28/7  
D866,763 S \* 11/2019 Khademhosseini ..... D24/151  
D921,299 S \* 6/2021 Khubani ..... D28/85  
2013/0114991 A1 \* 5/2013 Liu ..... A45D 40/24  
401/172

OTHER PUBLICATIONS

Amazon, "WiFi Otoscope Ear Wax Removal Kit", first available Sep. 29, 2020. (<https://www.amazon.com/Otoscope-Removal-KFF-Wireless-Endoscope/dp/B08KF15RFB>) (Year: 2020).\*

Amazon, "SodaBlue Ear Wax Removal Tool Camera Cleaning Kit", first available Mar. 31, 2021. (<https://www.amazon.com/SodaBlue-Cleaning-Otoscope-Compatiable-Temperature/dp/B091DLTTHH/>) (Year: 2021).\*

Simicrave, "P60 Smart Visual Ear Wax Removal", first available Apr. 9, 2021. (<https://www.simicrave.com/products/p60-smart-visual-ear-cleaner>) (Year: 2021).\*

\* cited by examiner

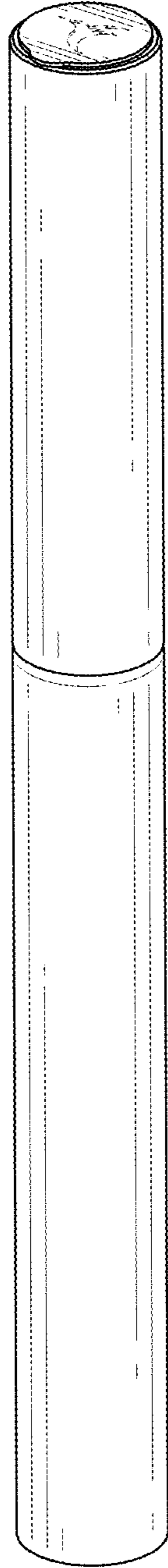


FIG. 1

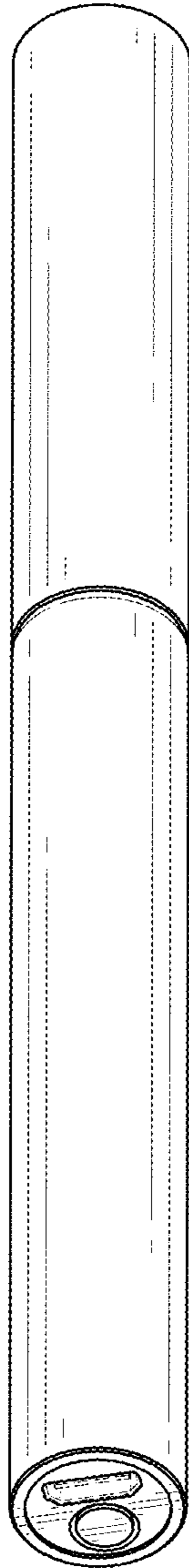


FIG. 2

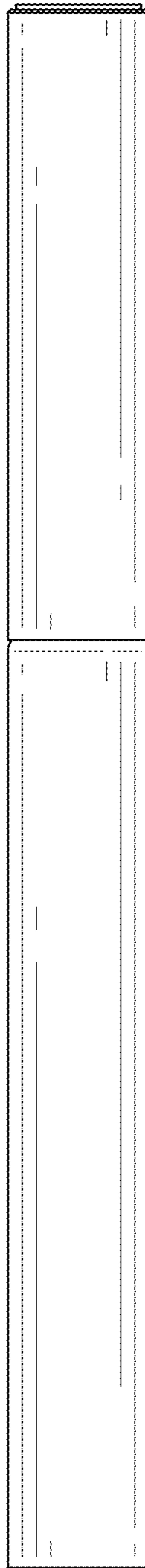


FIG. 3

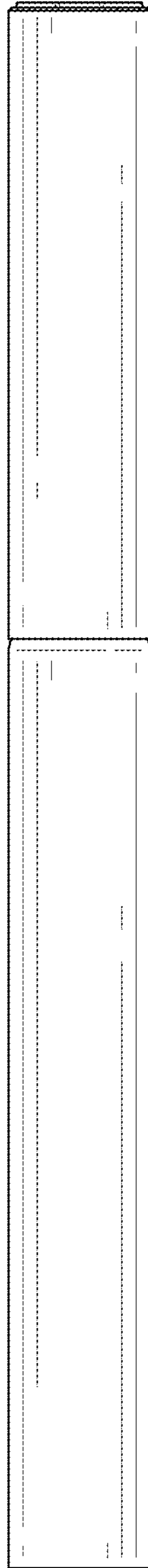


FIG. 4

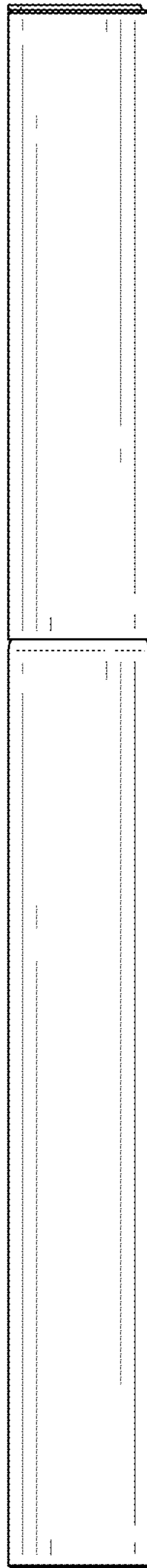


FIG. 5

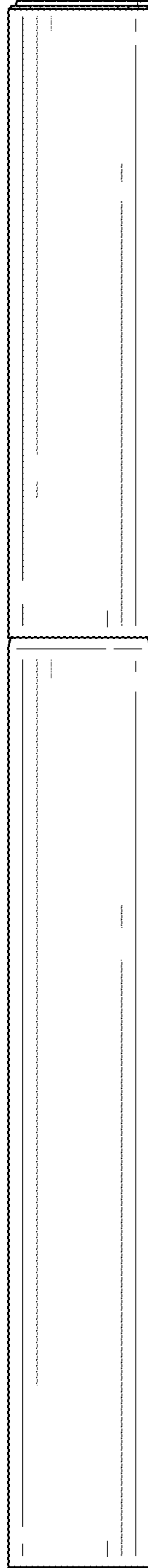


FIG. 6



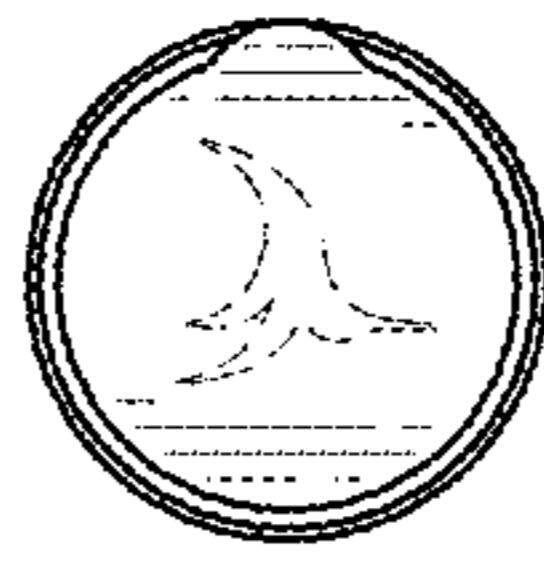


FIG. 7

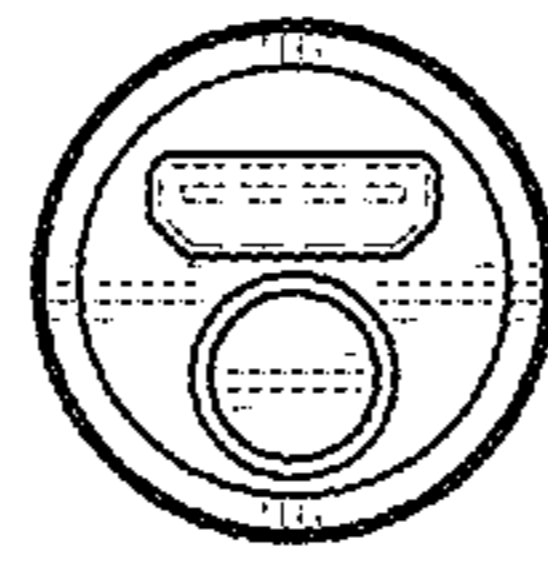


FIG. 8

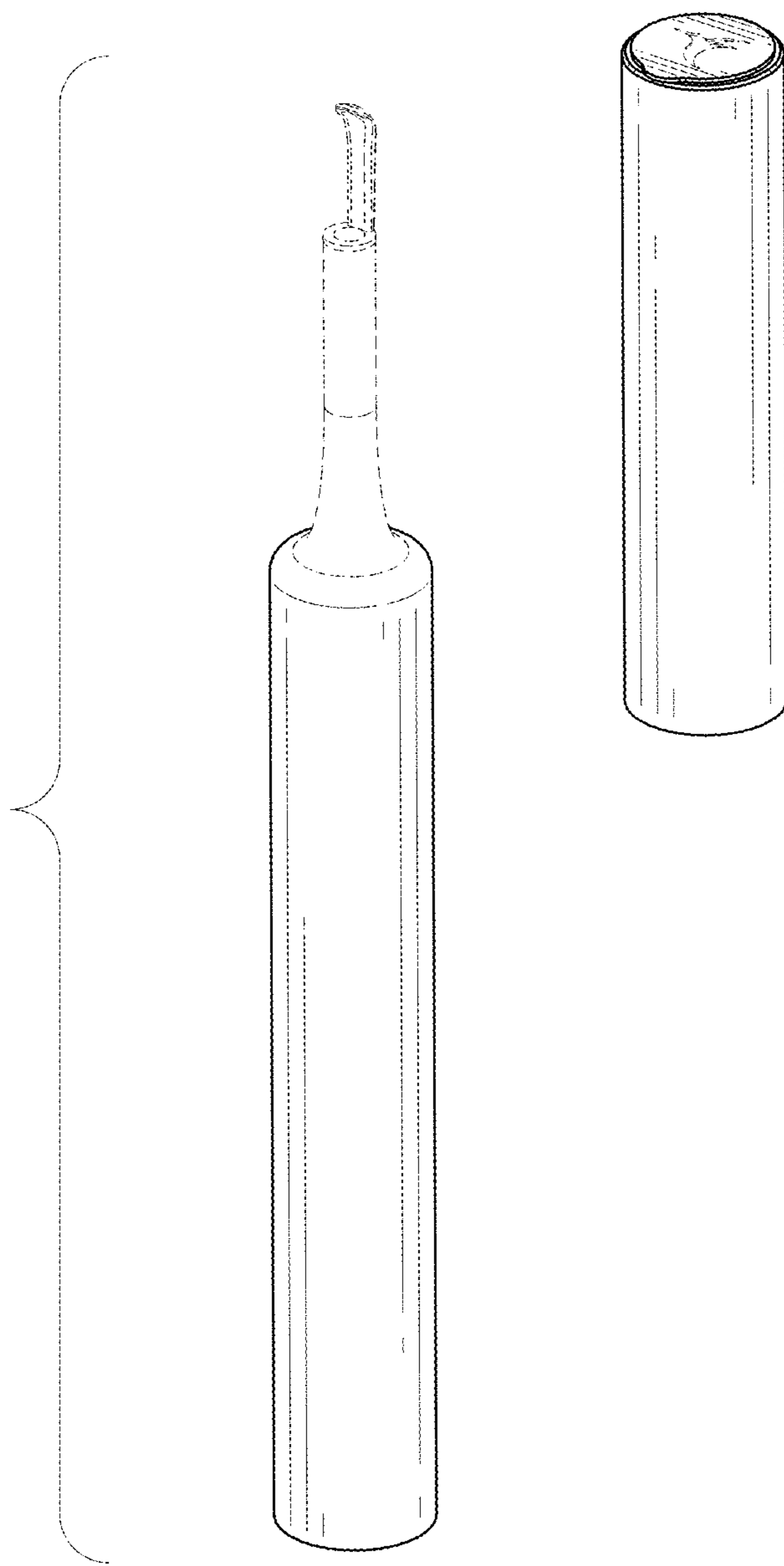


FIG. 9

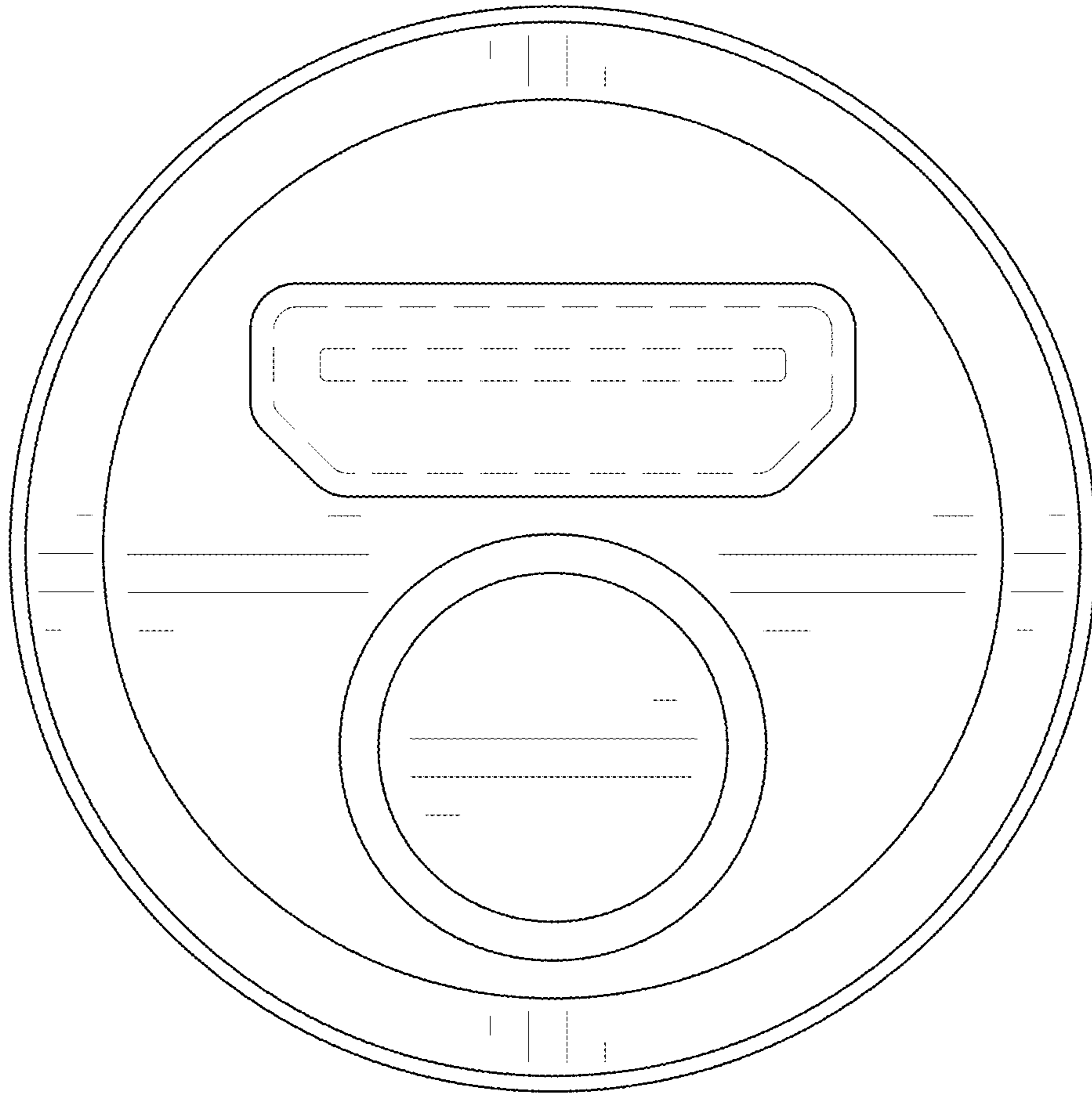


FIG. 10