



US00D879294S

(12) **United States Design Patent** (10) **Patent No.:** **US D879,294 S**  
**Sarig et al.** (45) **Date of Patent:** **\*\* Mar. 24, 2020**

(54) **DENTAL TOOL WITH A TRANSPONDER**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **DENTSPLY SIRONA Inc.**, York, PA (US)

DE 102006057338 A1 6/2008

(72) Inventors: **Dror Sarig**, Misgav (IL); **Ami Kamil**, Beerotayim (IL)

OTHER PUBLICATIONS

International Search Report; PCT/US2019/028237; dated Oct. 15, 2019 (completed); dated Oct. 22, 2019.

(73) Assignee: **DENTSPLY SIRONA Inc.**, York, PA (US)

(Continued)

(\*\*) Term: **15 Years**

Primary Examiner — Wan Laymon

(74) Attorney, Agent, or Firm — Dentsply Sirona Inc.

(21) Appl. No.: **29/645,325**

(22) Filed: **Apr. 25, 2018**

(57) **CLAIM**

(51) **LOC (12) Cl.** ..... **24-02**

The ornamental design for a dental tool with a transponder, as shown and described.

(52) **U.S. Cl.**

USPC ..... **D24/152**

(58) **Field of Classification Search**

USPC ..... D24/152, 146-147, 156

CPC ..... A61C 1/084; A61C 8/0089; A61C 8/0096;

A61C 3/00; A61C 3/02

See application file for complete search history.

**DESCRIPTION**

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,078,607 A \* 1/1992 Niznick ..... A61C 8/0089  
433/173

5,261,818 A \* 11/1993 Shaw ..... A61C 8/0089  
433/165

D351,908 S \* 10/1994 Shaw ..... D24/152

D558,348 S \* 12/2007 Anitua Aldecoa ..... D24/152

D743,549 S \* 11/2015 Sarig ..... D24/152

9,313,558 B1 4/2016 Manddecki

2002/0031745 A1\* 3/2002 Kumar ..... A61C 8/0089  
433/165

2003/0062988 A1 4/2003 Manddecki

2004/0142300 A1\* 7/2004 Aravena ..... A61C 1/084  
433/76

2008/0010771 A1 1/2008 Hilscher

2008/0221564 A1 9/2008 Rouiller

2008/0293008 A1 11/2008 Regere

(Continued)

FIG. 1 is a perspective view of a dental tool with a transponder of the present invention;

FIG. 2 is a left side view of the dental tool with a transponder shown in FIG. 1;

FIG. 3 is a right side view of the dental tool with a transponder shown in FIG. 1;

FIG. 4 is a front view of the dental tool with a transponder shown in FIG. 1;

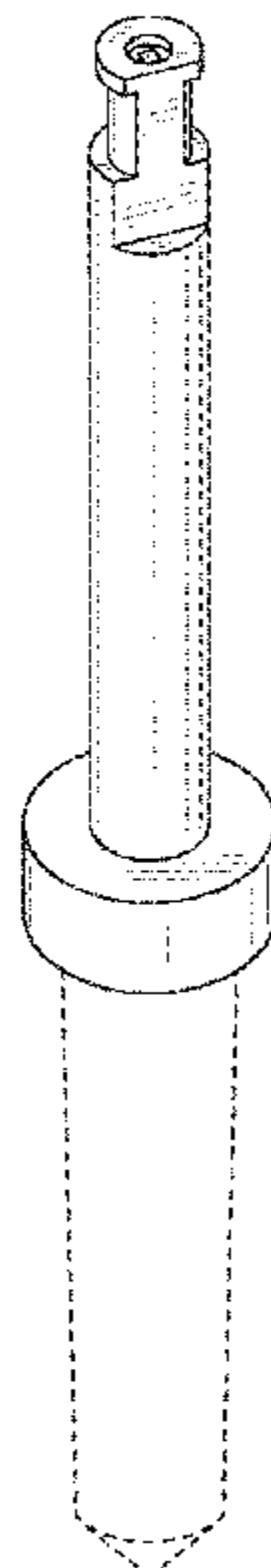
FIG. 5 is a back view of the dental tool with a transponder shown in FIG. 1;

FIG. 6 is a top view of the dental tool with a transponder shown in FIG. 1; and,

FIG. 7 is a bottom view of the dental tool with a transponder shown in FIG. 1.

The broken lines immediately adjacent the claimed areas represent the bounds of the claim, and all other broken lines are included for the purpose of illustrating portions of the present invention that form no part of the claimed design. None of the broken lines form part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2009/0258328 A1\* 10/2009 Chen ..... A61C 8/0089  
433/173  
2010/0248177 A1 9/2010 Mangelberger  
2013/0046308 A1\* 2/2013 Heo ..... A61C 3/02  
606/80  
2014/0093838 A1\* 4/2014 Carmichael ..... A61C 8/0089  
433/76  
2014/0315140 A1\* 10/2014 Pruckner ..... A61C 3/02  
433/27  
2017/0071696 A1\* 3/2017 Siadous ..... A61C 1/084  
2017/0143351 A1\* 5/2017 Devitre ..... A61C 8/0089  
2018/0092710 A1 4/2018 Bosisio  
2019/0151054 A1\* 5/2019 Weitzel ..... A61C 8/0089  
2019/0159790 A1\* 5/2019 Suriyan ..... A61C 8/0089  
2019/0321144 A1\* 10/2019 Kim ..... A61C 3/02  
2019/0374314 A1\* 12/2019 Chen ..... A61C 8/0089

OTHER PUBLICATIONS

Written Opinion of the International Searching Authority; PCT/  
US2019/028237; dated Oct. 15, 2019 (completed); dated Oct. 22,  
2019.

\* cited by examiner

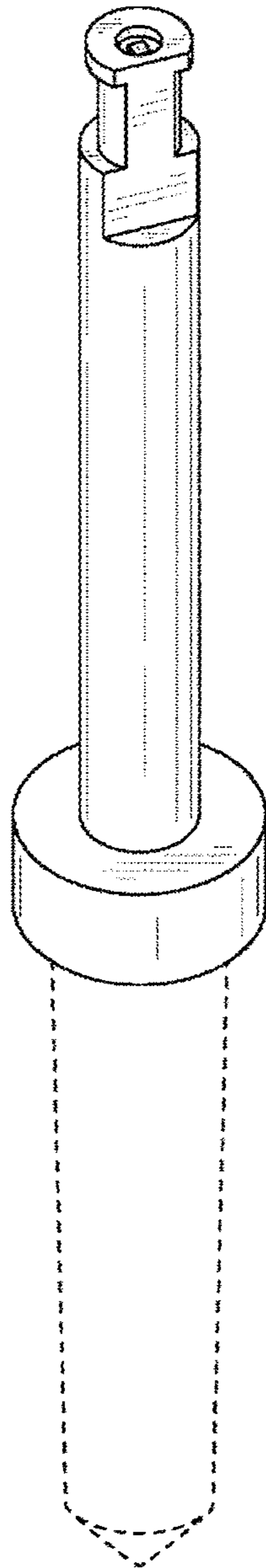


FIG. 1

DENTAL TOOL WITH TRANSPONDER

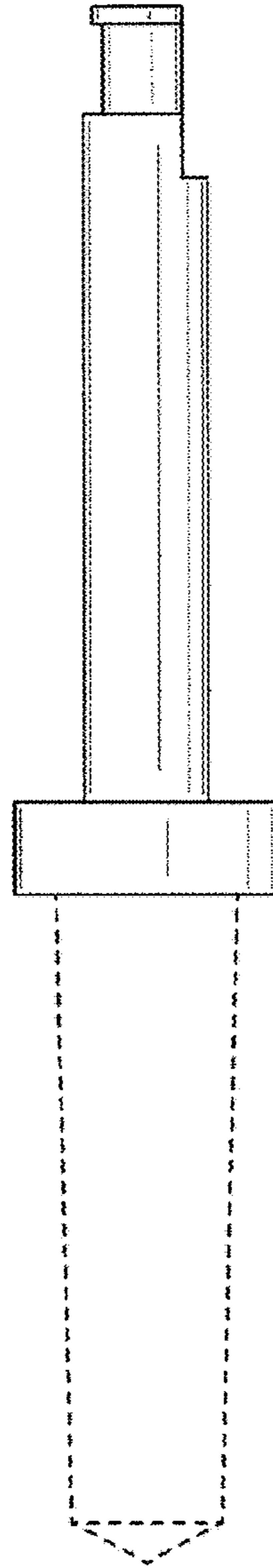


FIG. 2

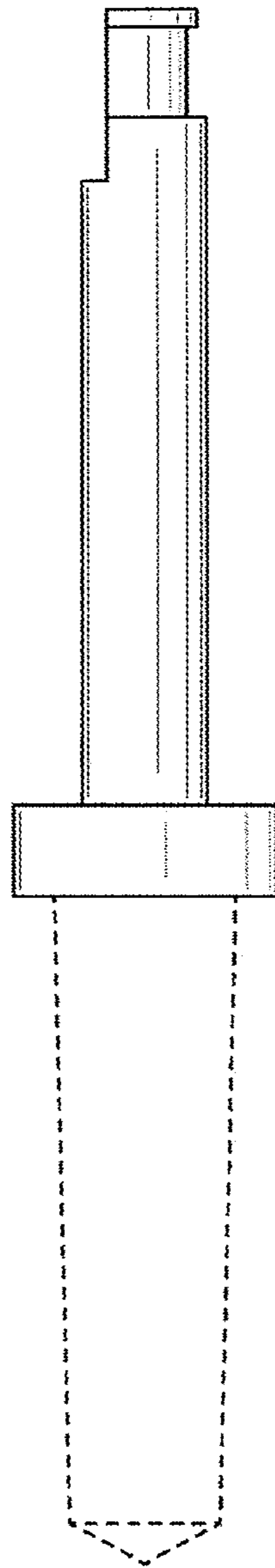


FIG. 3

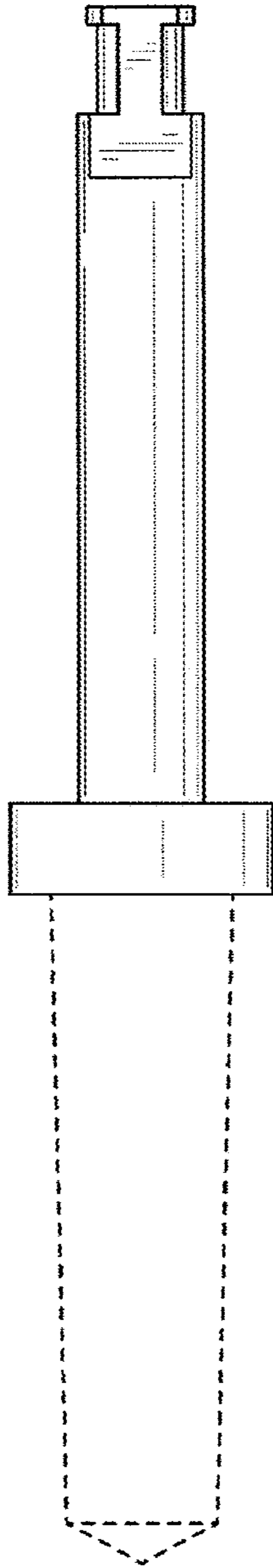


FIG. 4

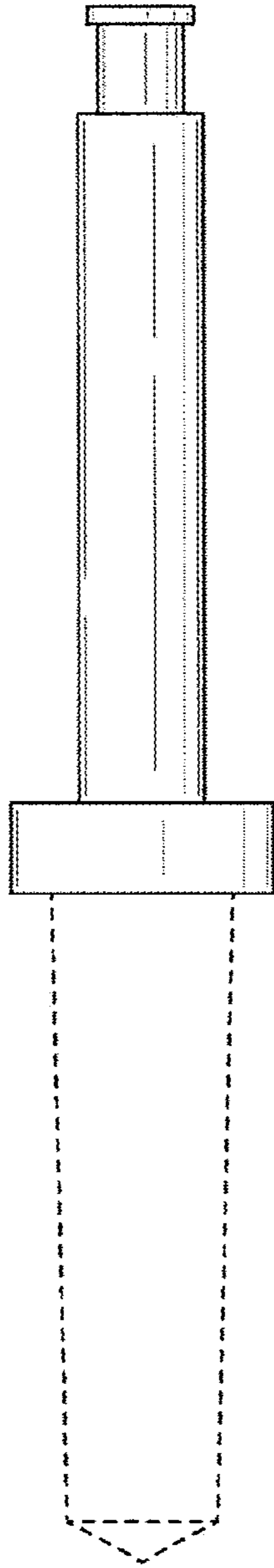


FIG. 5

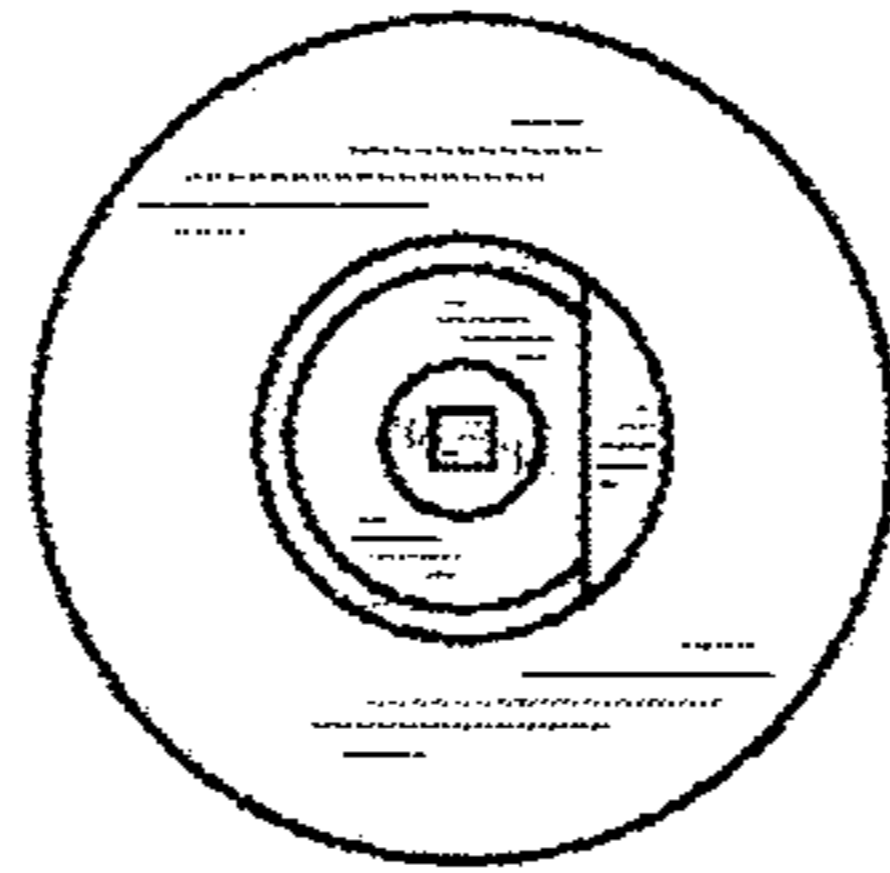


FIG. 6



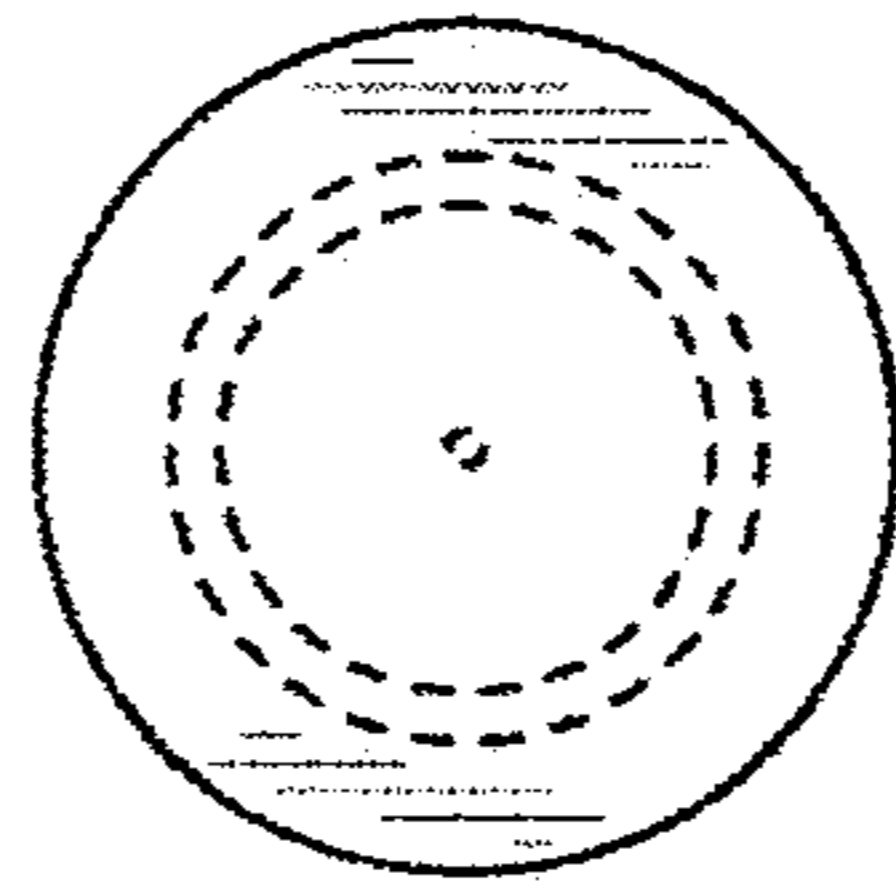


FIG. 7