



(12) **United States Design Patent**
Butz

(10) **Patent No.:** **US D794,793 S**
(45) **Date of Patent:** **** Aug. 15, 2017**

(54) **INTERDENTAL CLEANER**

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- (72) Inventor: **Jürgen Butz**, Schönau (DE)
- (73) Assignee: **INTERBROS GMBH**, Schönau (DE)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/576,410**
- (22) Filed: **Sep. 2, 2016**

Related U.S. Application Data

- (62) Division of application No. 35/500,137, filed on Aug. 11, 2015 (U.S. filing date under 35 U.S.C. 384), and having an international filing date of Sep. 18, 2015.

(30) **Foreign Application Priority Data**

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 Feb. 27, 2015 (EM) 001430771

- (51) **LOC (10) Cl.** **24-02**

- (52) **U.S. Cl.**
USPC **D24/152**; D4/111

(58) **Field of Classification Search**

USPC D24/152, 156, 176, 133, 146-147, 119;
 D4/104-107, 109, 111, 128, 136; D28/68
 CPC A46B 3/00; A46B 1/00; A46B 5/00; A46B
 5/0062; A46B 5/02; A46B 5/021; A46B
 5/026; A46B 2200/108; A46B 2200/1066;
 A61C 15/00; A61C 15/02; A61C 15/047;
 A61C 15/048; A61C 15/0069; A61C
 15/0087; A61C 15/0093

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D536,529 S * 2/2007 Antler D4/111
 D594,984 S * 6/2009 Crossman D24/152
 D674,610 S * 1/2013 Eatherton D4/111
 8,663,520 B2 * 3/2014 Kalbfeld A46B 1/00
 264/138

(Continued)

FOREIGN PATENT DOCUMENTS

CN 303535305 * 4/2015
 WO WO D087426-001 * 8/2015
 WO WO D087426-009 * 8/2015
 WO WO D087426-010 * 8/2015
 WO WO D087426-011 * 8/2015
 WO WO D087426-012 * 8/2015

Primary Examiner — Wan Laymon

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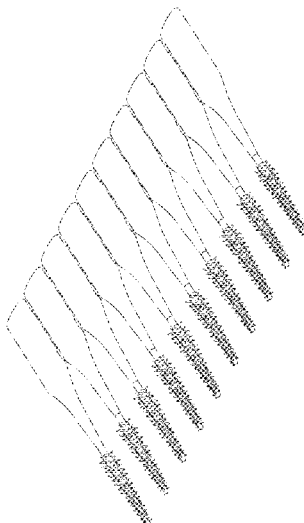
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a perspective view of my design;
 FIG. 2 is a front view of the design of FIG. 1;
 FIG. 3 is a rear view of the design of FIG. 1;
 FIG. 4 is a top view of the design of FIG. 1;
 FIG. 5 is a bottom view of the design of FIG. 1;
 FIG. 6 is a left view of the design of FIG. 1;
 FIG. 7 is a right view of the design of FIG. 1;
 FIG. 8 is a perspective view of another design;
 FIG. 9 is a front view of the design of FIG. 8;
 FIG. 10 is a rear view of the design of FIG. 8;
 FIG. 11 is a top view of the design of FIG. 8;
 FIG. 12 is a bottom view of the design of FIG. 8;
 FIG. 13 is a left view of the design of FIG. 8;
 FIG. 14 is a right view of the design of FIG. 8;
 FIG. 15 is a perspective view of another design;
 FIG. 16 is a front view of the design of FIG. 15;
 FIG. 17 is a rear view of the design of FIG. 15;
 FIG. 18 is a top view of the design of FIG. 15;
 FIG. 19 is a bottom view of the design of FIG. 15;
 FIG. 20 is a left view of the design of FIG. 15; and,
 FIG. 21 is a right view of the design of FIG. 15.

1 Claim, 21 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D767,900 S * 10/2016 Kalbfeld D4/111
2006/0254609 A1* 11/2006 Kuo A46B 5/02
132/321
2009/0230756 A1* 9/2009 Crossman A46B 5/02
300/21
2014/0008837 A1* 1/2014 Eatherton A46B 1/00
264/243
2014/0166043 A1* 6/2014 Dishon A61C 15/02
132/329
2015/0257861 A1* 9/2015 Dishon A61C 15/02
132/329
2015/0282601 A1* 10/2015 Butz A46B 1/00
15/167.1
2016/0058531 A1* 3/2016 Adriano A61C 15/02
132/329
2016/0135932 A1* 5/2016 Butz A61C 15/02
132/329
2016/0367345 A1* 12/2016 Wallstrom A61C 15/02

* cited by examiner

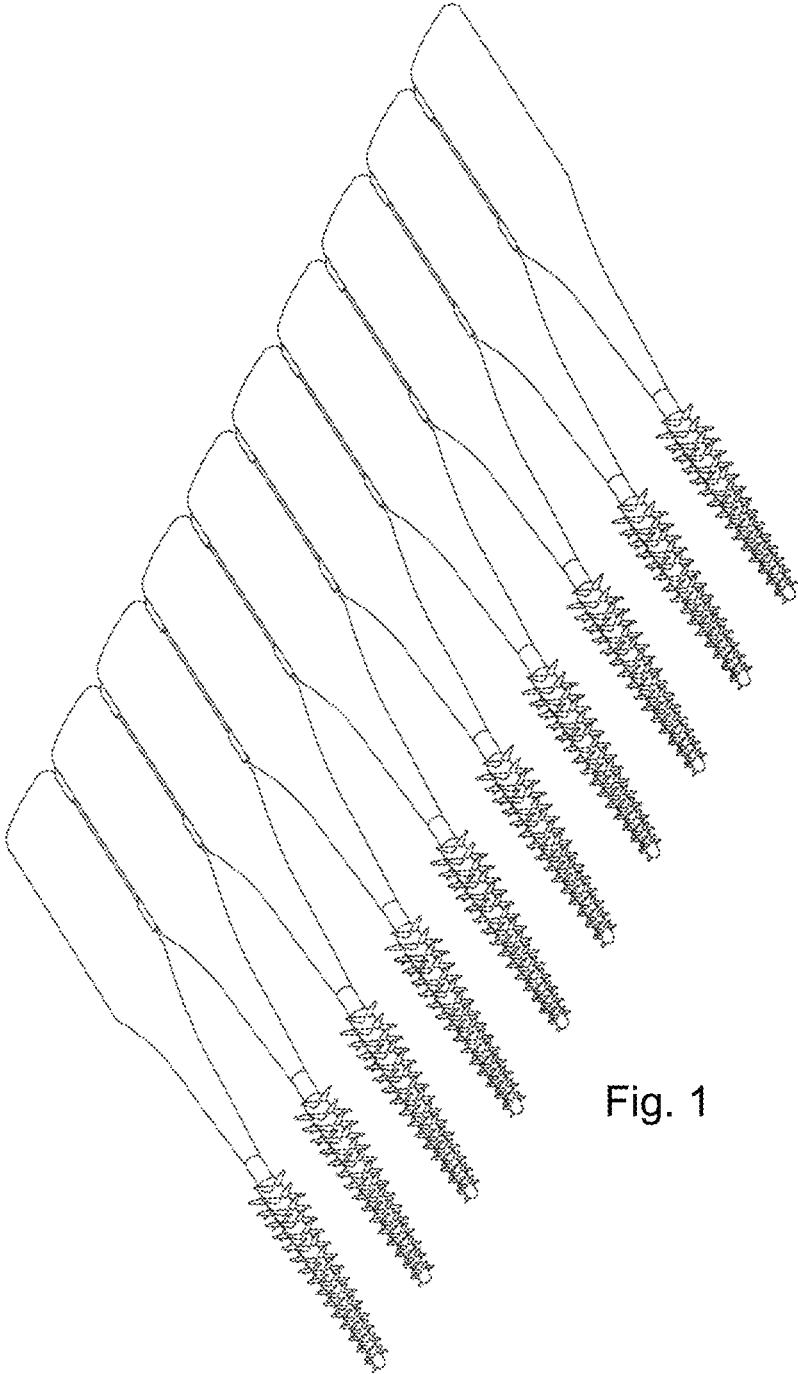


Fig. 1

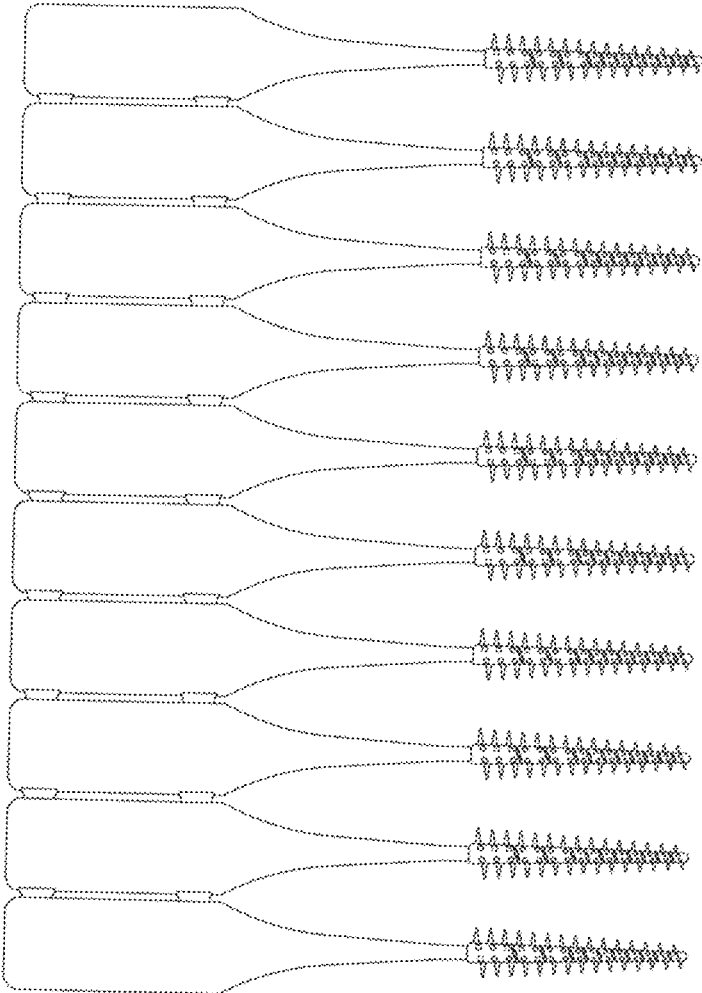


Fig. 2

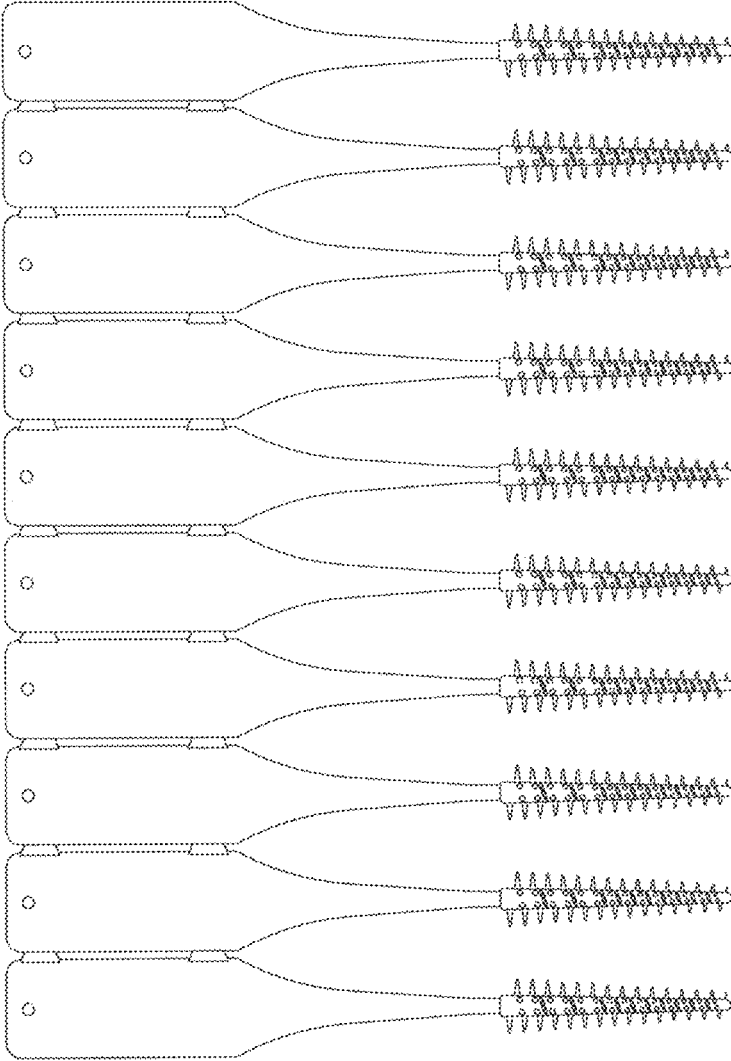


Fig. 3

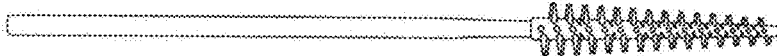


Fig. 4

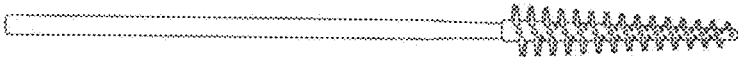


Fig. 5

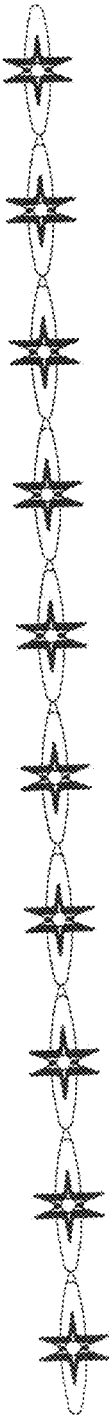


Fig. 6

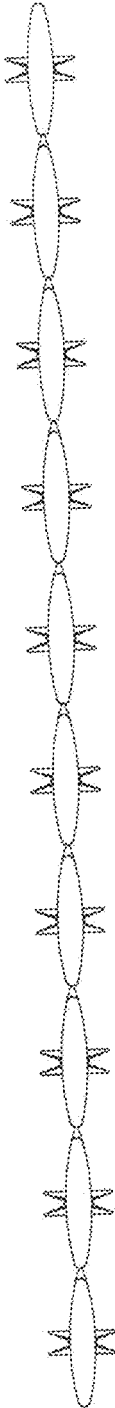


Fig. 7

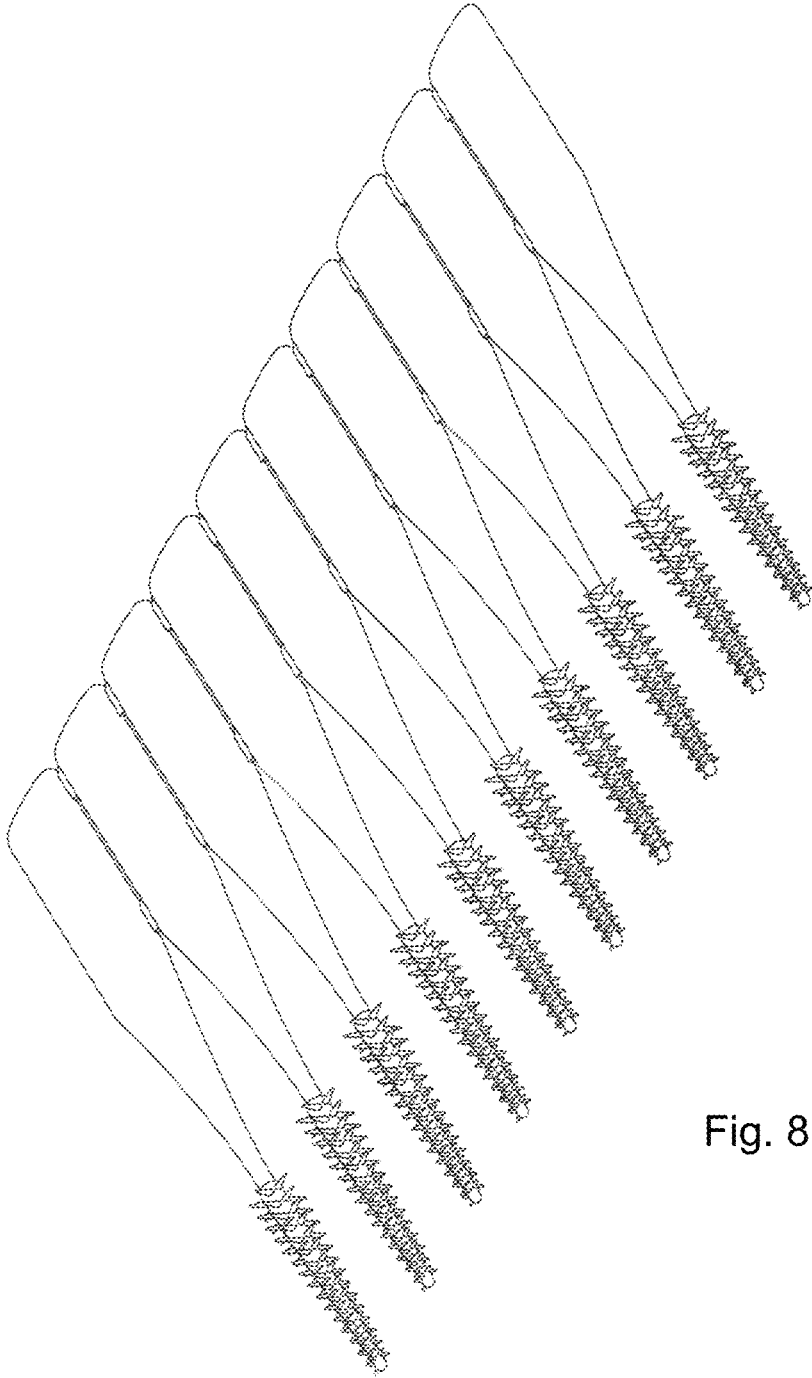


Fig. 8

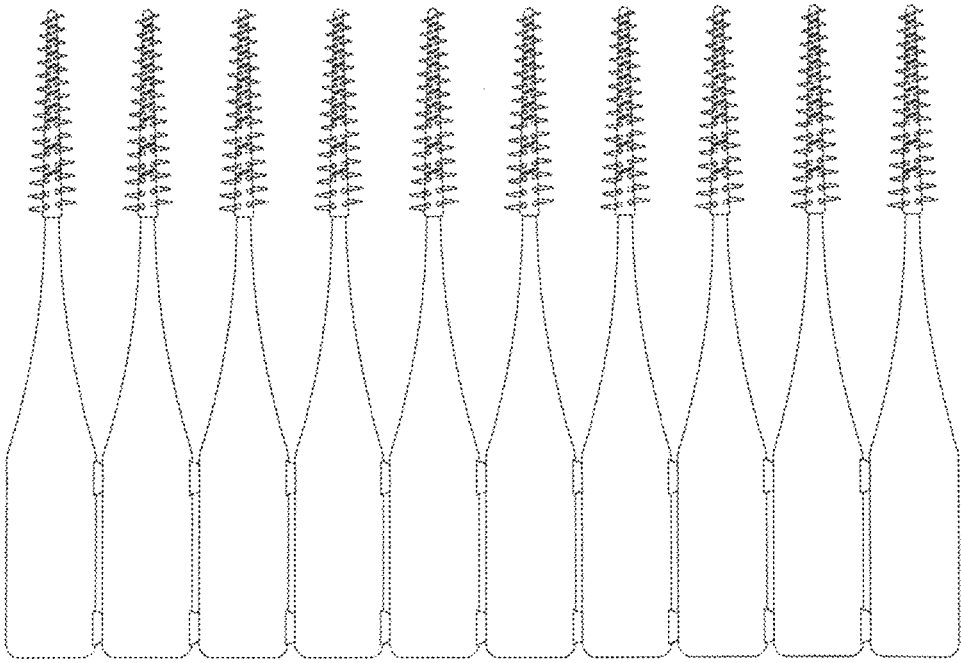


Fig. 9

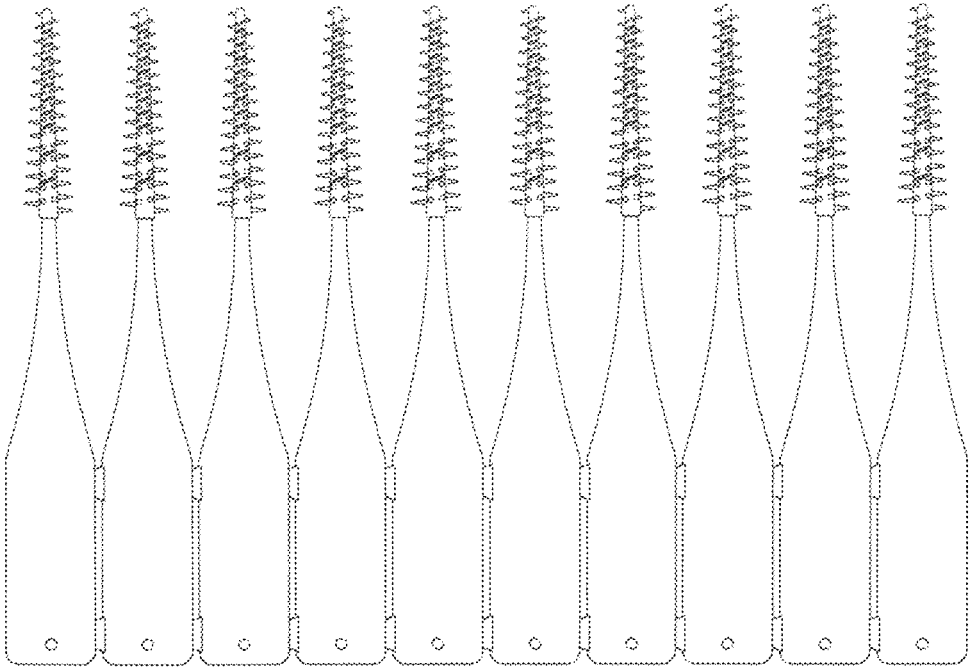


Fig. 10

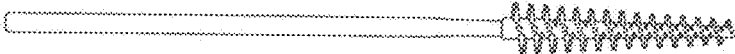


Fig. 11

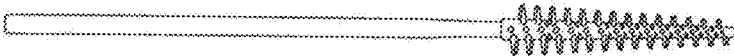


Fig. 12

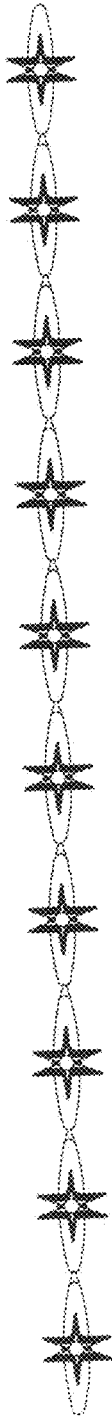


Fig. 13

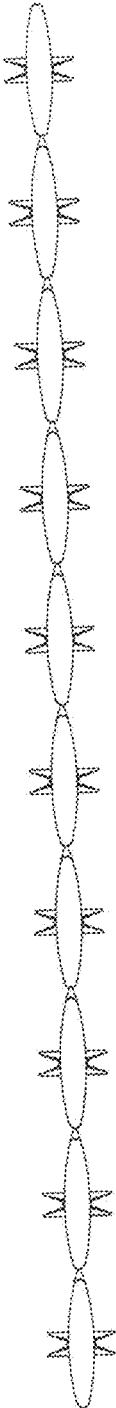


Fig. 14

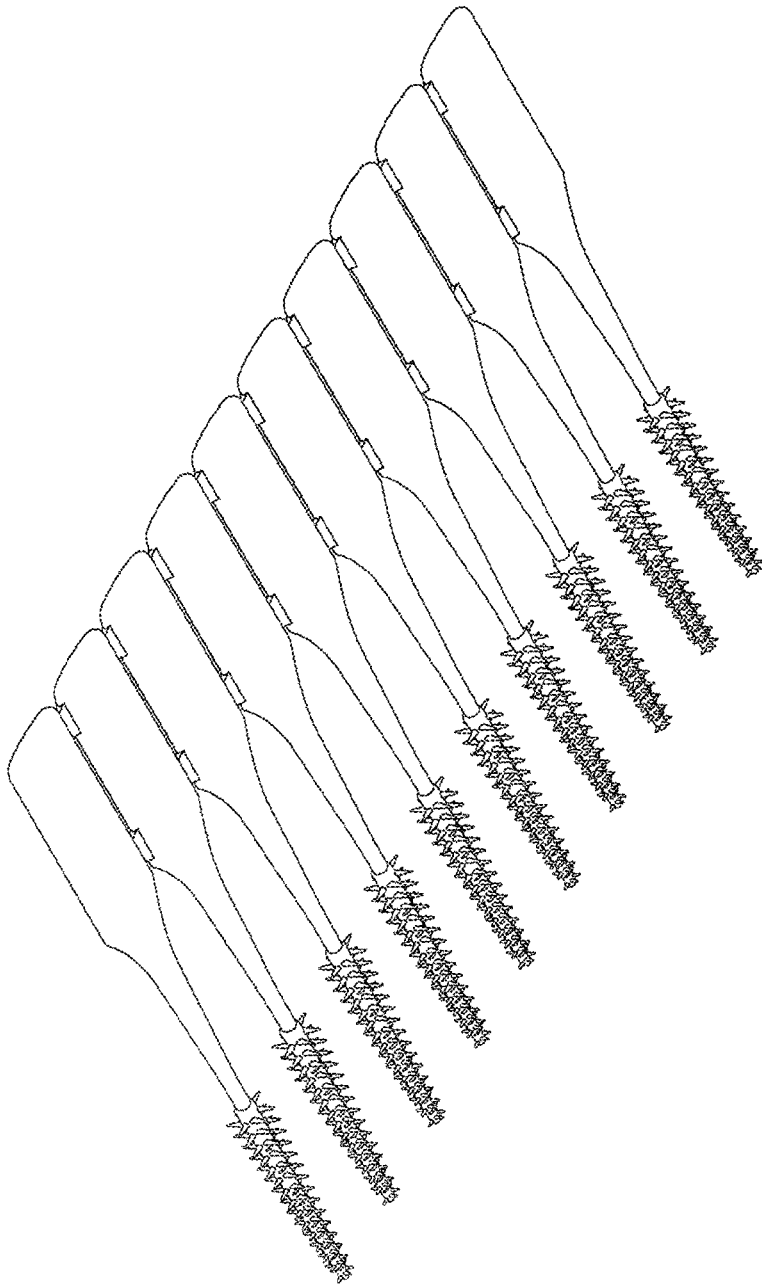


Fig. 15

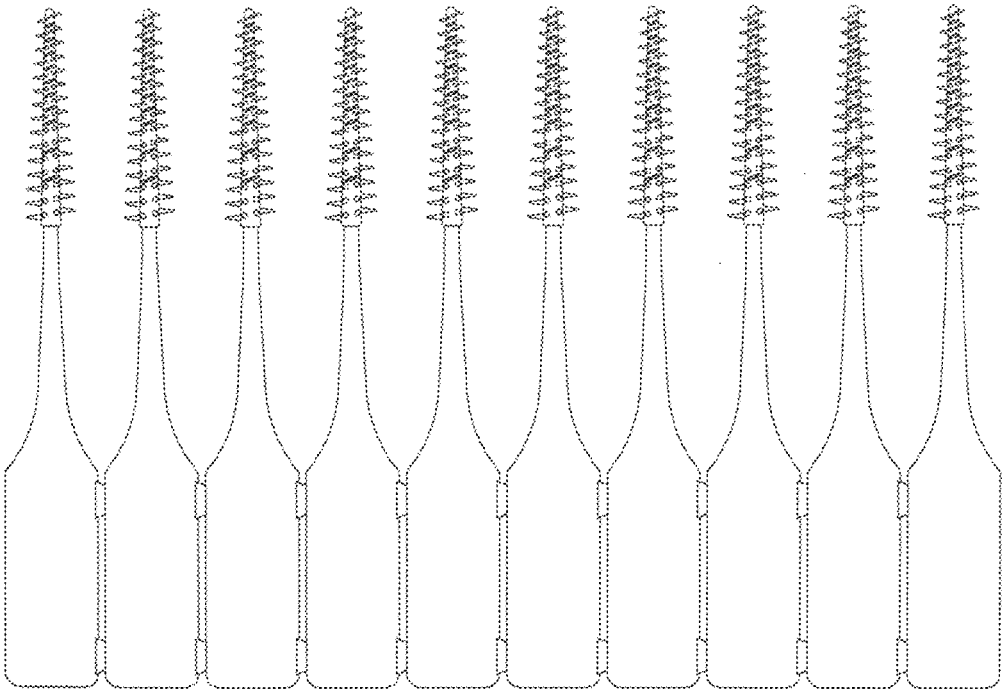


Fig. 16

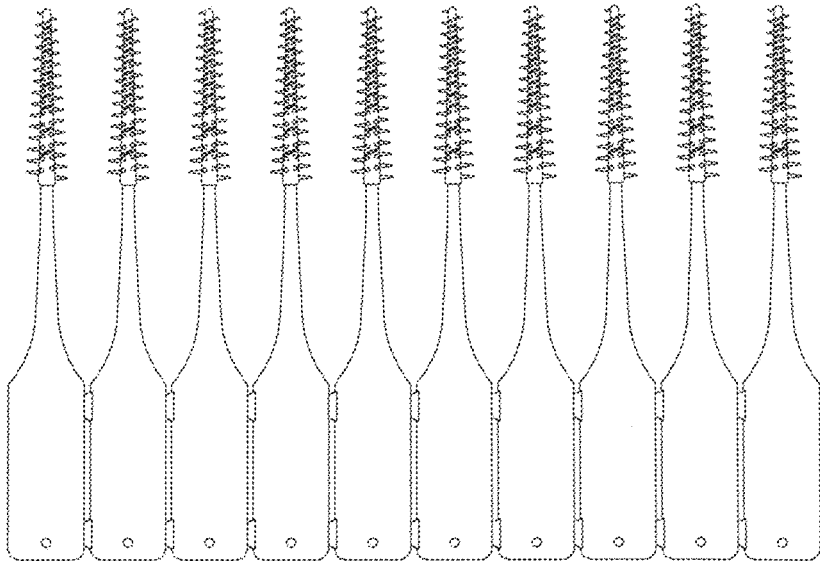


Fig. 17

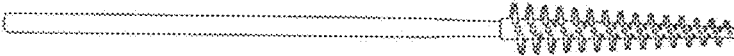


Fig. 18

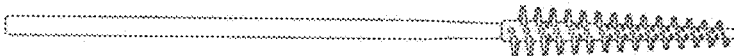


Fig. 19

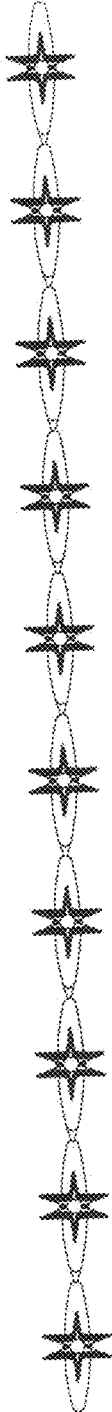


Fig. 20

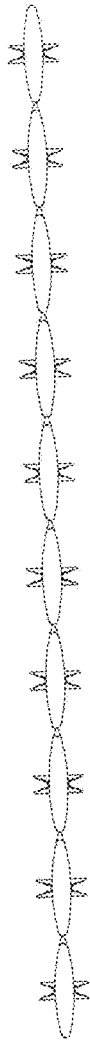


Fig. 21