



US00D962424S

(12) **United States Design Patent** (10) **Patent No.:** **US D962,424 S**
Lund et al. (45) **Date of Patent:** **** Aug. 30, 2022**

(54) **SWAB**

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

(21) Appl. No.: **29/753,513**

(22) Filed: **Sep. 30, 2020**

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

(52) **U.S. Cl.**
USPC **D24/119**

(58) **Field of Classification Search**
USPC D24/119, 133, 144, 184, 186, 200, 214; D8/315, 316
CPC A61B 18/2018; A61B 2018/0231; A61C 19/04; A61F 13/38; B01L 2300/0825; B01L 3/5023; C12M 1/30; G01N 33/5302; B29C 2035/0877; B29K 2021/003; B29K 2033/08

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D379,508 S * 5/1997 Hudson D24/119
D401,326 S * 11/1998 Powell D24/119
D541,931 S * 5/2007 Tsaur D24/119

(Continued)

OTHER PUBLICATIONS

AM Companies Make 3D Printed Swabs for COVID-19 Testing
<https://www.3dnatives.com/en/3d-printed-swabs-for-covid-19-testing-010420204/> Apr. 1, 2020 (Year: 2020).*

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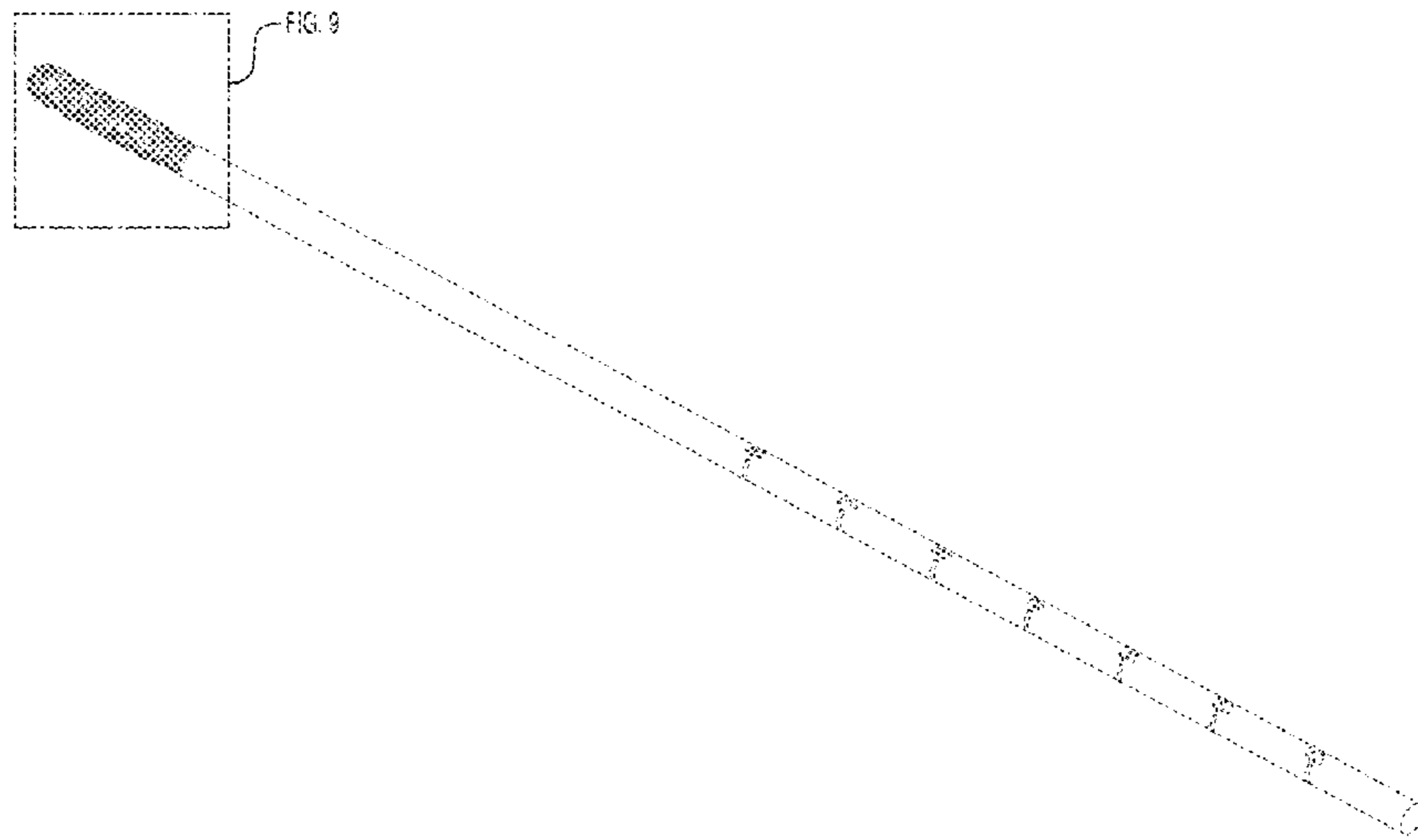
(57) **CLAIM**

The ornamental design for a swab, as shown and described.

DESCRIPTION

FIG. 1 is a front, right, bottom perspective view of a swab, showing the new design;
FIG. 2 is a rear, top, left perspective view thereof;
FIG. 3 is an enlarged top view thereof;
FIG. 4 is an enlarged bottom view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a front view thereof;
FIG. 8 is a rear view thereof;
FIG. 9 is an enlarged front, right, bottom perspective view, as shown in FIG. 1;
FIG. 10 is an enlarged left side view, as shown in FIG. 5; and,
FIG. 11 is an enlarged front view, as shown in FIG. 7.
The broken lines of even length shown in the drawings illustrate portions of the swab that form no part of the claimed design. The broken lines of uneven length shown directly adjacent to where the claimed portion stops in FIGS. 1, 2, and 5-11 indicate the bounds of the claim and form no part of the claimed design. The additional broken lines of uneven length shown in FIGS. 1, 5, 7, and 9-11 indicate areas where enlarged views are taken from and form no part of the claimed design.

1 Claim, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D584,813 S *	1/2009	Watanabe	.....	D24/119
D614,292 S *	4/2010	Anderson	.....	D24/119
D701,600 S *	3/2014	Kauffman	.....	D24/119
D772,398 S *	11/2016	Triva	.....	D24/119
D914,203 S *	3/2021	Aagaard	.....	D24/119

* cited by examiner

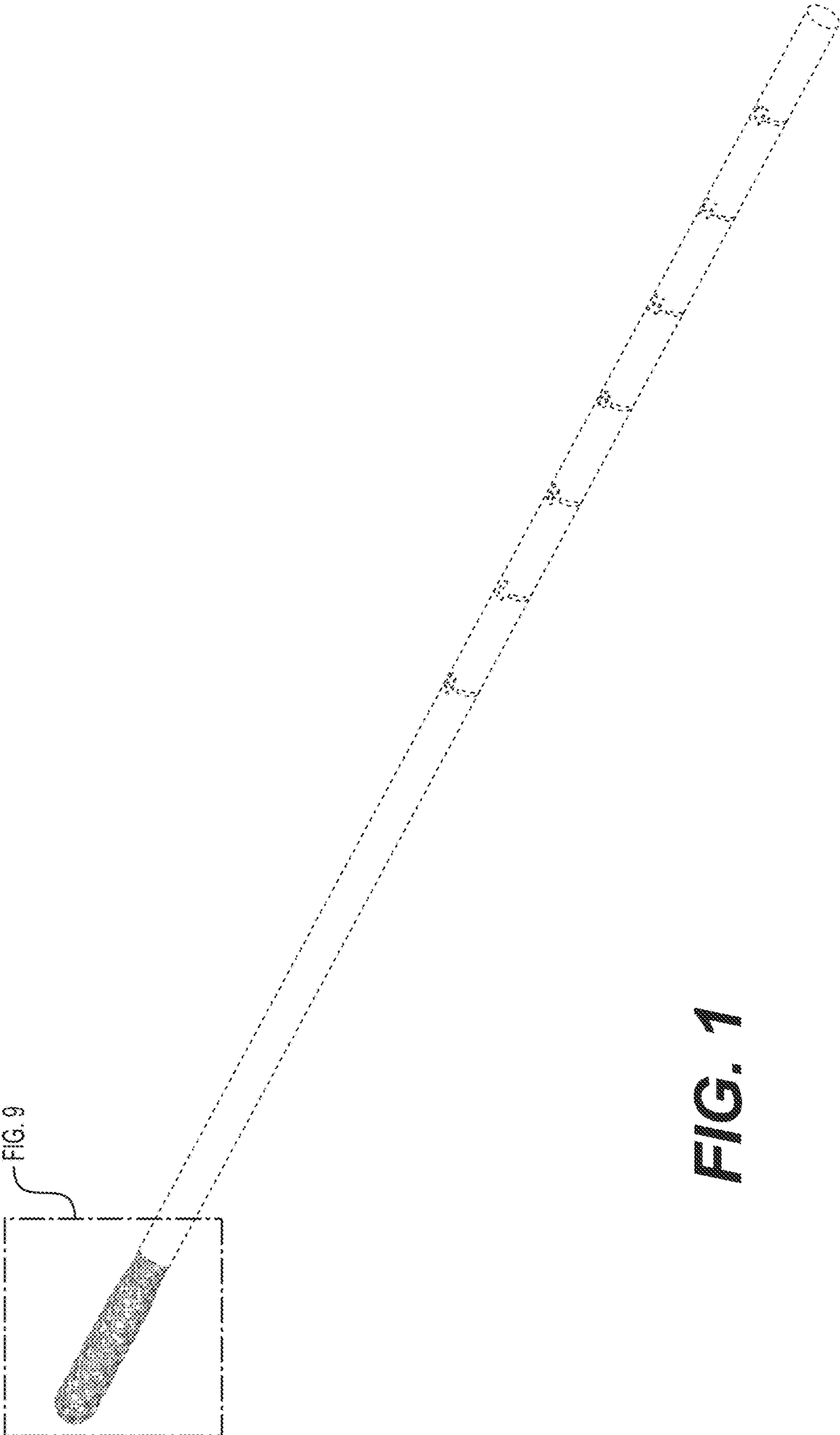


FIG. 1

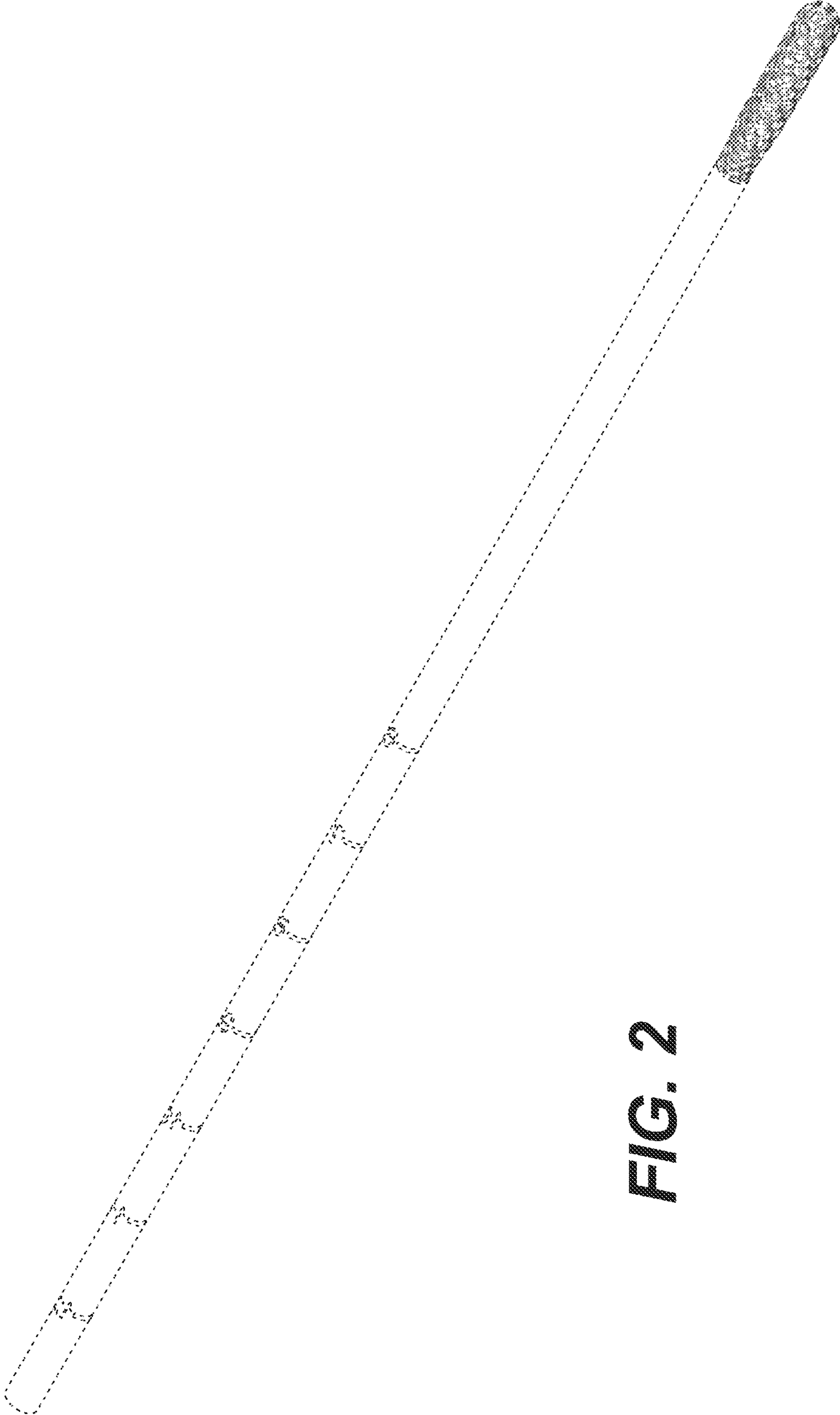


FIG. 2



FIG. 3

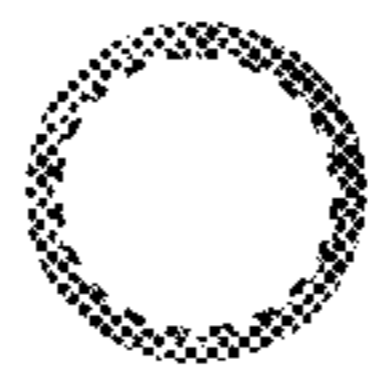


FIG. 4

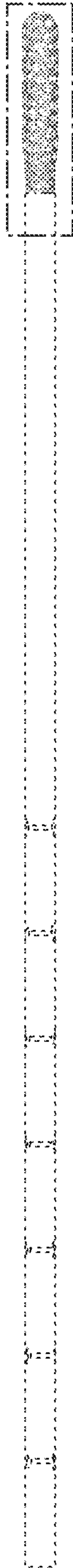


FIG. 10

FIG. 5

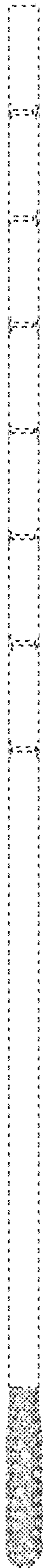


FIG. 6

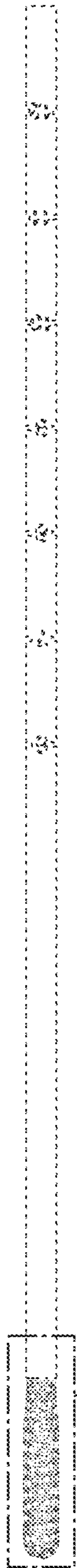


FIG. 11

FIG. 7

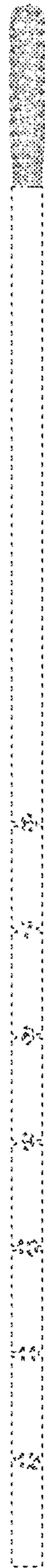


FIG. 8



FIG. 9

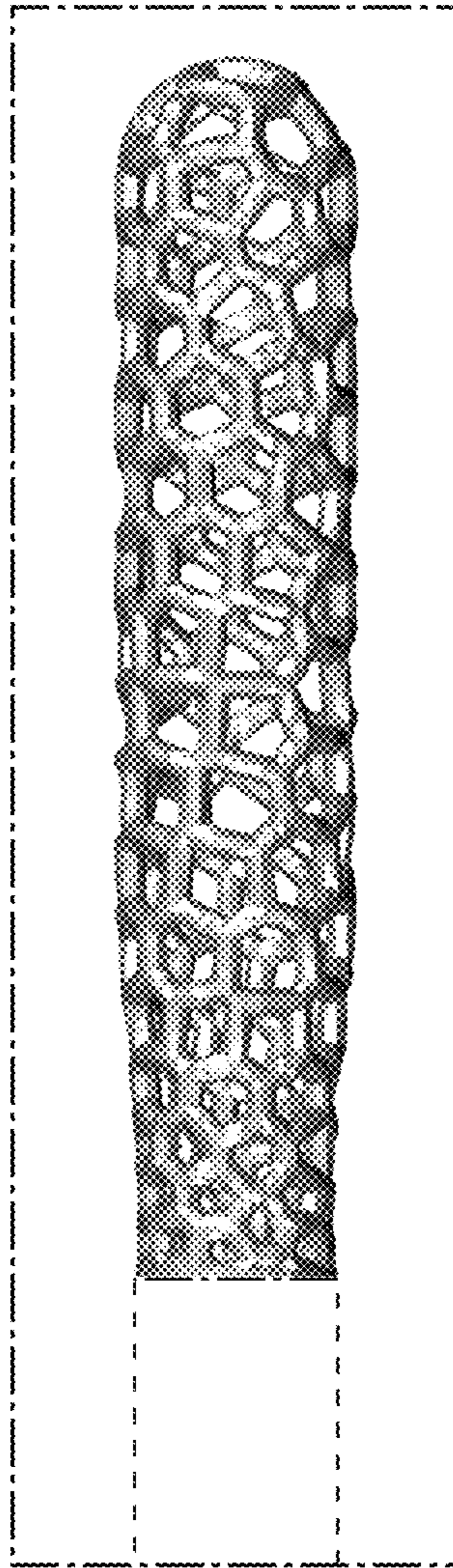


FIG. 10

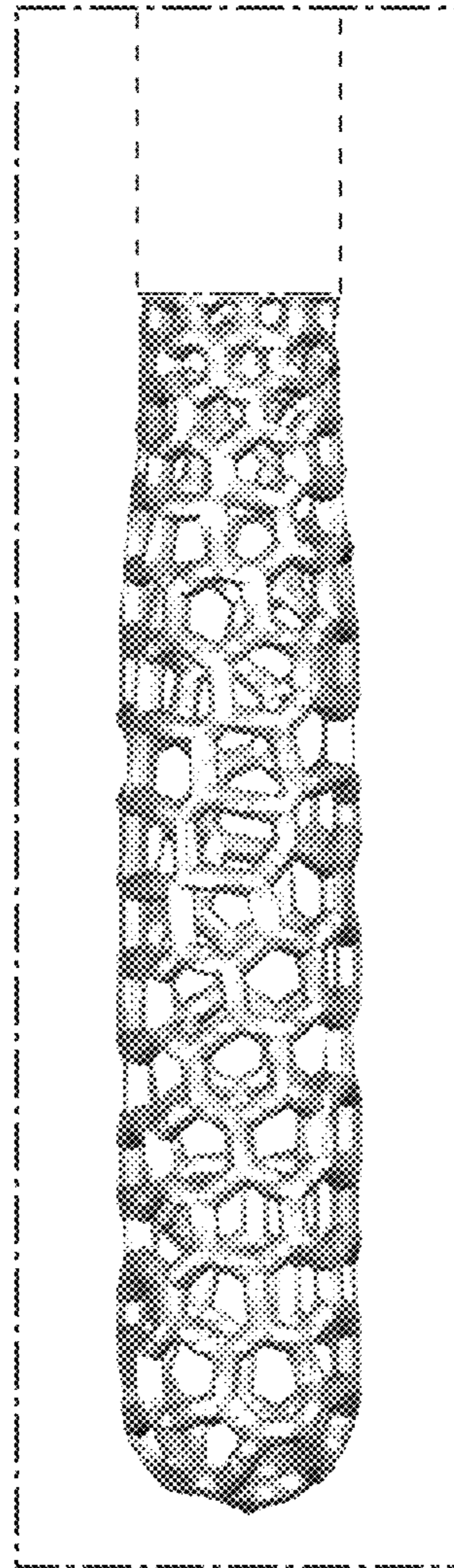


FIG. 11