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(12) **United States Design Patent**  
**Lund et al.**

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(54) **SWAB**

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

(21) Appl. No.: **29/753,523**

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(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 Tsauro ..... D24/119  
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

**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).\*

\* cited by examiner

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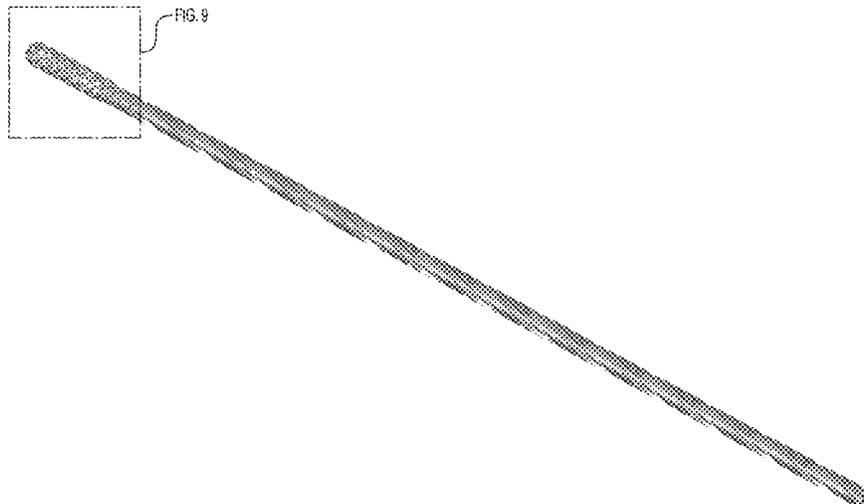
(57) **CLAIM**

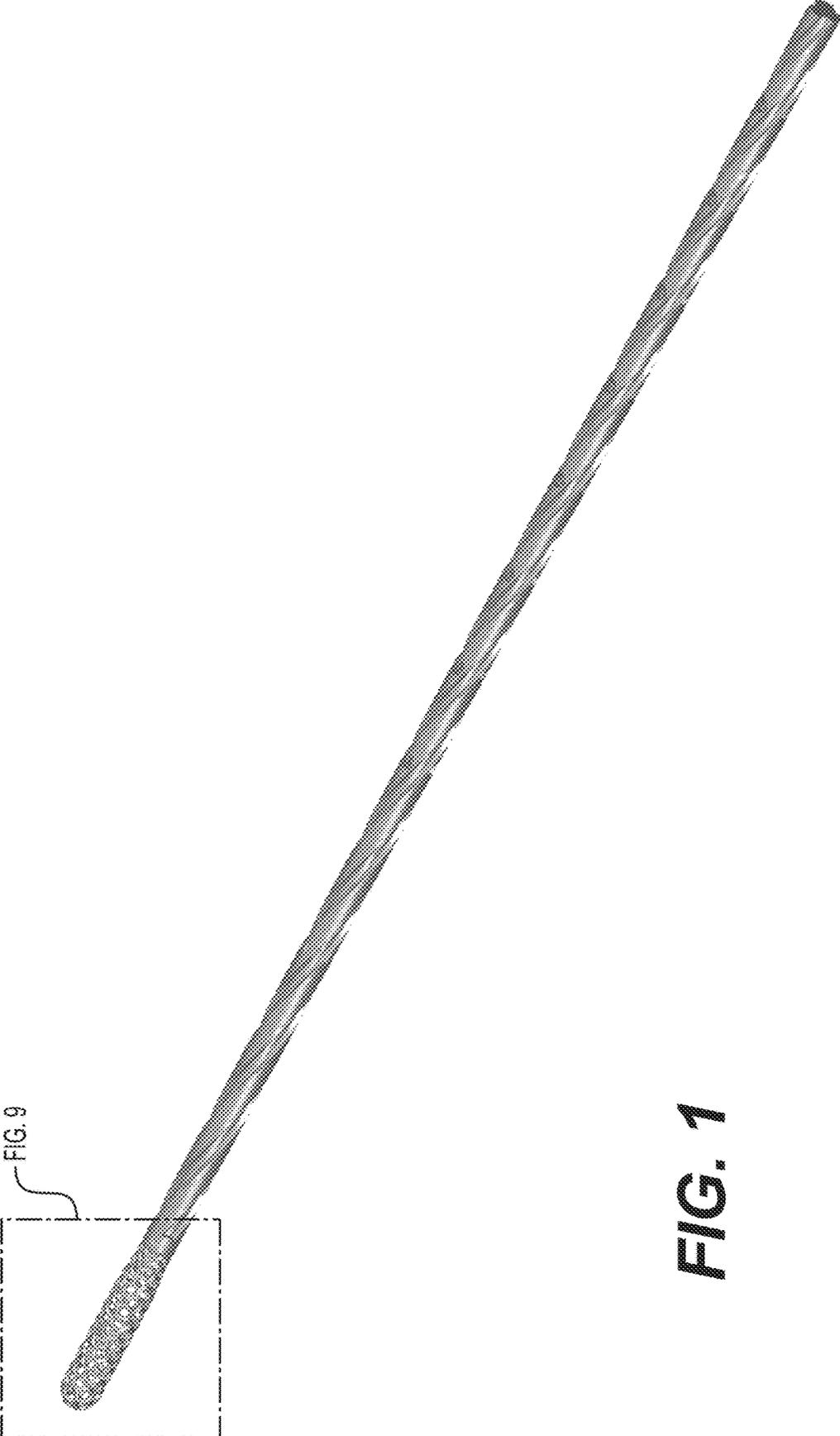
The ornamental design for a swab, as shown and described.

**DESCRIPTION**

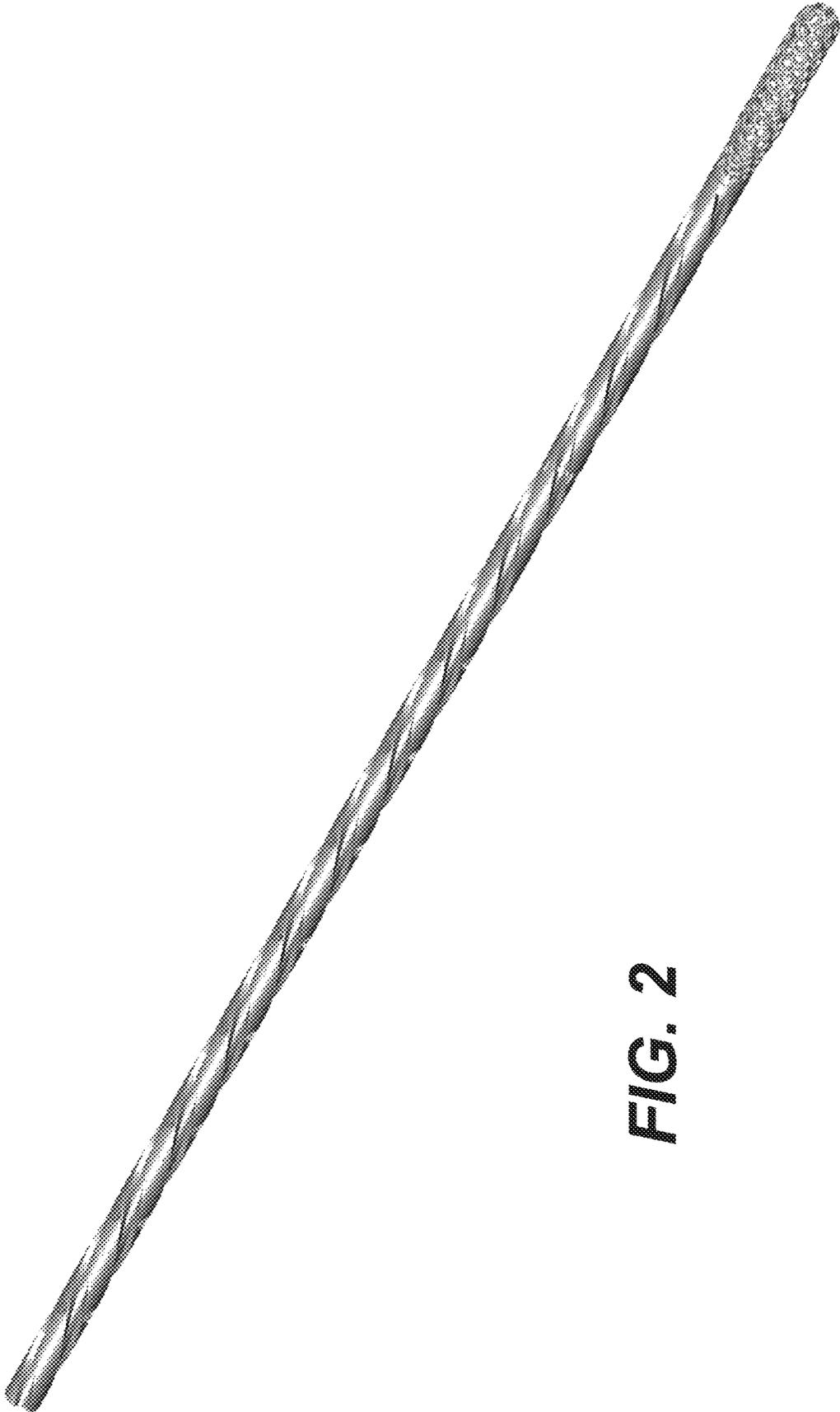
FIG. 1 is a front, bottom, right perspective view of a swab, showing the new design;  
FIG. 2 is a rear, top, left perspective view thereof;  
FIG. 3 is an enlarged top view thereof;  
FIG. 4 is an enlarged bottom view thereof;  
FIG. 5 is a left side view thereof;  
FIG. 6 is a right side view thereof;  
FIG. 7 is a front view thereof;  
FIG. 8 is a rear view thereof;  
FIG. 9 is an enlarged front, bottom, right 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.

**1 Claim, 10 Drawing Sheets**





**FIG. 1**



**FIG. 2**



**FIG. 3**



**FIG. 4**

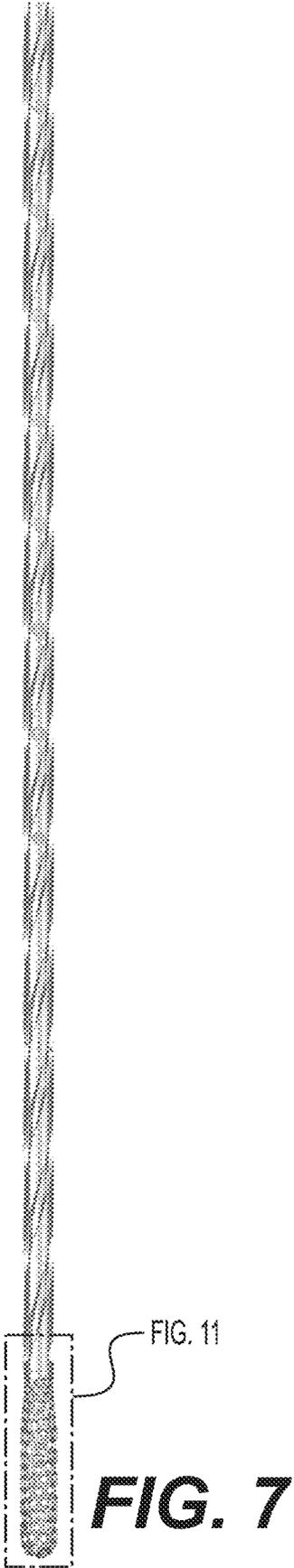


FIG. 10

**FIG. 5**



**FIG. 6**

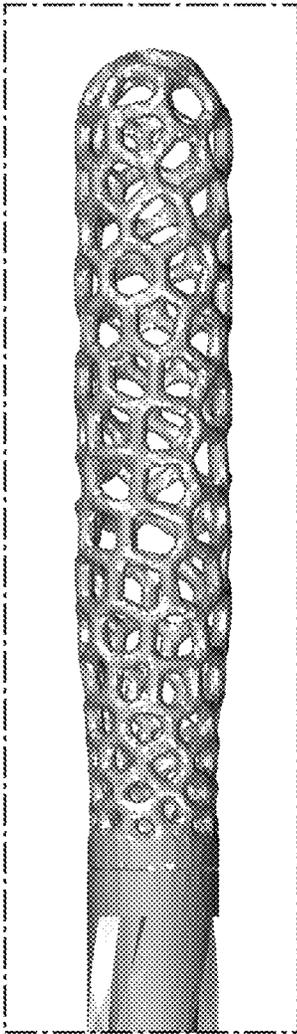




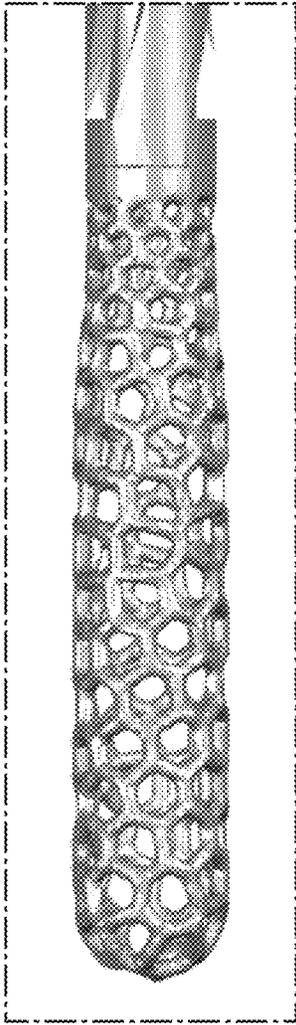
**FIG. 8**



**FIG. 9**



**FIG. 10**



**FIG. 11**