

US00D982158S

(12)

United States Design Patent

Yeom et al.

(10)

Patent No.:

US D982,158 S

(45)

Date of Patent:

** Mar. 28, 2023

(54) **SWAB FOR COLLECTING BIOLOGICAL SAMPLES**

(71) Applicant: **VECTORNATE USA INC.**, East Windsor, NJ (US)

(72) Inventors: **Sean Taesun Yeom**, Cranbury, NJ (US); **Ji Hyun Shin**, Naju-Si (KR)

(73) Assignee: **VECTORNATE USA INC.**, East Windsor, NJ (US)

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

(21) Appl. No.: **29/797,227**

(22) Filed: **Jun. 29, 2021**

Related U.S. Application Data

(63) Continuation-in-part of application No. 29/652,566, filed on Sep. 21, 2020.

(51) **LOC (14) 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.

References Cited

U.S. PATENT DOCUMENTS

D379,508 S * 5/1997 Hudson D28/8
5,627,071 A 5/1997 Triva
D401,326 S * 11/1998 Powell D24/119
D541,931 S * 5/2007 Tsauro D24/119
7,211,061 B1 5/2007 Maxwell

D584,813 S * 1/2009 Watanabe D24/119
D614,292 S 4/2010 Anderson
8,114,027 B2 2/2012 Triva
8,317,728 B2 11/2012 Triva
8,334,134 B2 12/2012 Young et al.
8,420,385 B2 4/2013 Young et al.
D701,600 S 3/2014 Kauffman
8,979,784 B2 3/2015 Triva
(Continued)

FOREIGN PATENT DOCUMENTS

CN 203915228 U 11/2014
JP 2015090330 A 5/2015
(Continued)

OTHER PUBLICATIONS

Utility U.S. Appl. No. 17/549,765, filed Dec. 13, 2021 by Applicant, Vectornate Korea Co., Ltd., entitled “Specimen Collection Swab Assembly” (29 pages).
(Continued)

Primary Examiner — Samantha Q Lawrence
(74) *Attorney, Agent, or Firm* — Lewis Roca Rothgerber Christie LLP

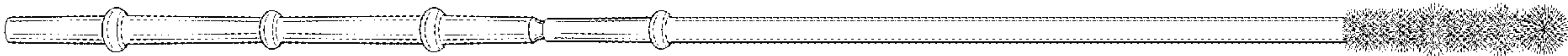
(57) **CLAIM**

The ornamental design for a swab for collecting biological samples, as shown.

DESCRIPTION

FIG. 1 is a perspective view of a swab for collecting biological samples showing our new design;
FIG. 2 is a left side view thereof, the right side view being a mirror image thereof;
FIG. 3 is a front view thereof, the rear view being a mirror image thereof;
FIG. 4 is a bottom view thereof; and,
FIG. 5 is a top view thereof.

1 Claim, 1 Drawing Sheet



(56)

References Cited

U.S. PATENT DOCUMENTS

9,011,358 B2 4/2015 Triva
9,170,177 B2 10/2015 Triva
9,173,779 B2 11/2015 Triva
9,274,029 B2 3/2016 Young et al.
9,279,747 B2 3/2016 Young et al.
9,428,788 B2 8/2016 Triva
D772,398 S 11/2016 Triva
D779,654 S 2/2017 Pourbaba
10,092,275 B2 10/2018 Triva
10,094,744 B2 10/2018 Young et al.
10,094,745 B2 10/2018 Young et al.
10,327,741 B2 6/2019 Triva
D914,203 S * 3/2021 Aagaard D24/119
D942,000 S 1/2022 Huxel et al.
D944,987 S 3/2022 Wang
D945,618 S 3/2022 Ramon Martinez et al.
2011/0282243 A1 11/2011 Nakatani
2013/0072817 A1 3/2013 Triva
2013/0245495 A1 9/2013 Li et al.
2016/0367227 A1 12/2016 Triva
2018/0361375 A1 12/2018 Martello
2019/0008489 A1 1/2019 Triva

2019/0011331 A1 1/2019 Young et al.
2019/0011332 A1 1/2019 Young et al.
2019/0134635 A1 5/2019 Triva
2019/0143318 A1 5/2019 Triva
2019/0307433 A1 10/2019 Triva

FOREIGN PATENT DOCUMENTS

KR 101696549 B1 1/2017
KR 1020220012440 A 2/2022
WO 2006063979 A1 6/2006
WO 2011133129 A1 10/2011
WO 2015052607 A1 4/2015

OTHER PUBLICATIONS

Design U.S. Appl. No. 29/762,281, filed Dec. 15, 2020 by Applicant, Vectornate Korea Co., Ltd., entitled “Swab for Collecting Biological Samples” (27 pages).
Design U.S. Appl. No. 29/652,566, filed Sep. 21, 2020 by Applicant, Vectornate USA Inc., entitled “Swabbing Stick” (8 pages).
PCT International Search Report and Written Opinion for PCT/US2021/010054, dated Apr. 12, 2022, 11 pages.

* cited by examiner

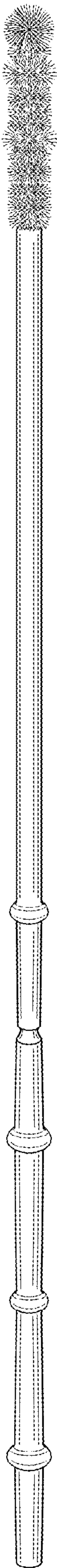


FIG. 1

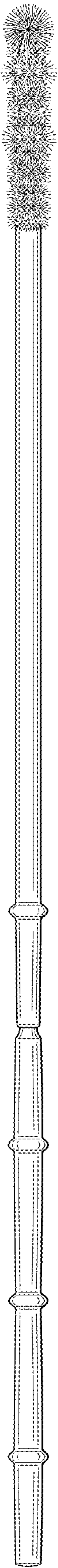


FIG. 2

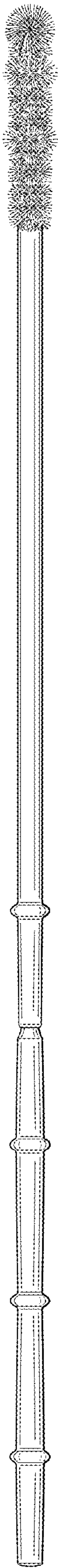


FIG. 3

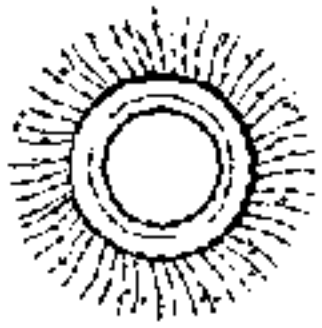


FIG. 4



FIG. 5