



US00D876102S

(12) **United States Design Patent** (10) **Patent No.:** **US D876,102 S**  
**Eng** (45) **Date of Patent:** **\*\* Feb. 25, 2020**

(54) **TWISTED CONICAL BRUSH HANDLE**

*Primary Examiner* — Karen E Eldridge Powers  
(74) *Attorney, Agent, or Firm* — Seager, Tuft & Wickhem LLP

(71) Applicant: **HCT GROUP HOLDINGS LIMITED**, Central (CN)

(72) Inventor: **Nolan Quentin Eng**, Foothill Ranch, CA (US)

(57) **CLAIM**

The ornamental design for a twisted conical brush handle, as shown and described.

(73) Assignee: **HCT GROUP HOLDINGS LIMITED**, Hong Kong (HK)

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

**DESCRIPTION**

(21) Appl. No.: **29/638,903**

(22) Filed: **Mar. 1, 2018**

(51) **LOC (12) Cl.** ..... **04-02**

(52) **U.S. Cl.**  
USPC ..... **D4/138**

(58) **Field of Classification Search**  
USPC ..... D4/100, 127, 130, 132, 133, 134, 135, D4/138, 199, 124; D28/7; D8/107, 303  
(Continued)

FIG. 1 is a perspective view of a brush with a first twisted conical brush handle;  
FIG. 2 is a front elevation view of the brush handle of FIG. 1;  
FIG. 3 is a rear elevation view of the brush handle of FIG. 1;  
FIG. 4 is a left elevation view of the brush handle, of FIG. 1;  
FIG. 5 is a right elevation view of the brush handle of FIG. 1;  
FIG. 6 is a top plan view of the brush handle of FIG. 1;  
FIG. 7 is a bottom plan view of the brush handle of FIG. 1;  
FIG. 8 is a perspective view of a brush with a second twisted conical brush handle;  
FIG. 9 is a front elevation view of the brush handle of FIG. 8;  
FIG. 10 is a rear elevation view of the brush handle of FIG. 8;  
FIG. 11 is a left elevation view of the brush handle of FIG. 8;  
FIG. 12 is a right elevation view of the brush handle of FIG. 8;  
FIG. 13 is a top plan view of the brush handle of FIG. 8; and, FIG. 14 is a bottom plan view of the brush handle of FIG. 8.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

715,881 A 12/1902 Scott  
783,937 A 2/1905 Edwards et al.  
(Continued)

**FOREIGN PATENT DOCUMENTS**

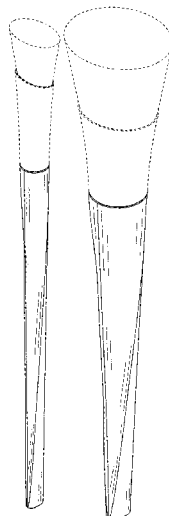
CN 1196212 A 10/1998  
CN 304507533 \* 2/2018  
(Continued)

**OTHER PUBLICATIONS**

Luxury Champagne Makeup Brushes Set (highlighting flat top brush) . . . [on-line].[Retrieved from the Internet Oct. 9, 2019].  
URL: <https://www.aliexpress.com/item/32898149866.html> (Year: 2019).\*

The portions of the Figures shown in broken lines illustrate environmental structure and form no part of the claimed design.

**1 Claim, 14 Drawing Sheets**



(58) **Field of Classification Search**  
 CPC ..... A46B 5/02; A46B 9/021; A46B 9/005;  
 A46B 2200/1046  
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

987,277 A 3/1911 Wright  
 1,030,440 A 6/1912 Waterman  
 1,065,879 A 6/1913 Krebs  
 1,067,596 A 7/1913 Fesler  
 1,112,193 A 9/1914 Carleton et al.  
 1,142,698 A 6/1915 Grove et al.  
 1,170,923 A 2/1916 Malkin  
 1,185,617 A 6/1916 Blaha et al.  
 1,188,214 A 6/1916 Sohn  
 1,190,227 A 7/1916 Fesler  
 D51,319 S 10/1917 Montgomery  
 1,261,502 A 4/1918 Farrow  
 1,274,697 A 8/1918 Dynowsky  
 1,355,026 A 10/1920 Austin  
 1,358,597 A 11/1920 Tobias  
 1,429,823 A 9/1922 Allison  
 1,457,615 A 6/1923 Bunker  
 1,506,292 A 8/1924 Corsello  
 1,510,898 A 10/1924 Nikicsar  
 1,563,031 A 11/1925 Jones  
 1,626,992 A 5/1927 Willk  
 1,639,388 A 8/1927 Stebbings  
 1,651,355 A 12/1927 Alland  
 1,659,800 A 2/1928 Bailey  
 1,831,393 A 11/1931 Pierce, Jr.  
 1,889,496 A 11/1932 Priest  
 2,104,651 A 1/1938 Hoffman, Jr.  
 2,132,943 A 10/1938 Frazier  
 2,263,885 A \* 11/1941 McGauley ..... A46B 5/02  
 15/143.1  
 D134,797 S 1/1943 Lubkin  
 2,321,265 A 6/1943 Ulvick  
 2,441,520 A \* 5/1948 Ulvick ..... A46B 11/0041  
 401/183  
 2,442,051 A 5/1948 Luscri  
 D149,965 S \* 6/1948 Muller-Munk ..... D4/134  
 2,485,822 A 10/1949 Goldrich  
 2,591,537 A 4/1952 Gordon  
 2,637,060 A 5/1953 Cowan  
 2,637,868 A 5/1953 Hamilton  
 2,697,642 A 12/1954 Rudy  
 2,701,378 A 2/1955 Reinbolt et al.  
 2,736,051 A 2/1956 Boodakian  
 2,825,080 A 3/1958 Bongiovanni  
 2,866,993 A 1/1959 Edystone  
 2,874,399 A 2/1959 Solomon  
 2,946,072 A 7/1960 Filler et al.  
 2,982,983 A 5/1961 Peterson  
 3,007,188 A 11/1961 Dolan  
 D191,875 S \* 12/1961 Hvale ..... D7/395  
 3,106,738 A 10/1963 Bohne  
 3,193,863 A 7/1965 Myers et al.  
 3,205,523 A 9/1965 Seaver  
 D204,449 S 4/1966 Zavodsky  
 3,276,062 A \* 10/1966 Palumbo ..... B01L 99/00  
 15/104.94  
 3,309,728 A 3/1967 Seaver  
 D209,842 S \* 1/1968 Anderson ..... D21/795  
 D209,851 S \* 1/1968 Levin ..... D7/395  
 D210,348 S \* 3/1968 Levin ..... D4/138  
 3,592,202 A 7/1971 Jones  
 3,863,288 A 2/1975 Aversa  
 3,908,676 A 9/1975 Levine et al.  
 D245,462 S 8/1977 Hauf  
 4,088,413 A 5/1978 Rossignol de la Ronde et al.  
 D249,600 S 9/1978 Bowman  
 4,129,918 A 12/1978 Lee et al.  
 4,165,755 A 8/1979 Cassai  
 4,204,294 A 5/1980 Halverson

D258,241 S 2/1981 Takada et al.  
 4,248,543 A 2/1981 Carrington et al.  
 4,428,388 A 1/1984 Cassai et al.  
 4,446,880 A 5/1984 Gueret et al.  
 4,483,036 A 11/1984 Sayklay  
 4,502,497 A 3/1985 Siahou et al.  
 D278,951 S 5/1985 Kalinsky  
 4,600,328 A 7/1986 Clements  
 D294,406 S \* 2/1988 Shyh ..... D28/29  
 4,727,618 A 3/1988 Mahoney et al.  
 D297,889 S 10/1988 Ries et al.  
 4,898,193 A 2/1990 Gueret et al.  
 4,906,120 A 3/1990 Sekiguchi et al.  
 4,917,132 A 4/1990 Tuchman  
 4,927,281 A 5/1990 Gueret et al.  
 D310,917 S 10/1990 Futter  
 5,063,947 A 11/1991 Gueret et al.  
 5,137,038 A 8/1992 Kingsford et al.  
 5,153,066 A 10/1992 Tanaka et al.  
 5,165,760 A 11/1992 Gueret et al.  
 5,211,494 A 5/1993 Baijnath et al.  
 5,220,702 A 6/1993 Howell et al.  
 5,301,695 A 4/1994 Wong  
 5,328,282 A 7/1994 Charrier et al.  
 5,339,483 A 8/1994 Byun et al.  
 5,388,599 A 2/1995 Yen et al.  
 D362,965 S 10/1995 Tastanis  
 5,482,059 A 1/1996 Miraglia  
 5,491,865 A 2/1996 Gueret  
 5,507,063 A 4/1996 Hirsch  
 5,535,474 A 7/1996 Salazar  
 5,588,447 A 12/1996 Gueret  
 5,596,785 A 1/1997 Park  
 D380,615 S 7/1997 Roberts  
 5,690,441 A 11/1997 McManus  
 D387,562 S \* 12/1997 Brady ..... D4/104  
 5,778,479 A 7/1998 Raia  
 5,802,658 A 9/1998 Ward  
 5,960,745 A 10/1999 Boyland  
 5,992,423 A 11/1999 Tevolini  
 6,026,824 A 2/2000 Gueret  
 D421,846 S 3/2000 Choe  
 6,039,051 A 3/2000 Dort  
 D425,794 S 5/2000 Grossnickle  
 6,059,474 A 5/2000 Huang  
 6,070,597 A 6/2000 Motherhead  
 D434,187 S 11/2000 Schoon et al.  
 6,145,151 A 11/2000 Herron et al.  
 6,145,514 A 11/2000 Clay et al.  
 6,158,443 A 12/2000 Leman et al.  
 6,164,857 A 12/2000 Wolfarth-Brooks et al.  
 D439,415 S 3/2001 Mink et al.  
 D442,369 S 5/2001 Damiano  
 6,224,287 B1 5/2001 Gieux  
 6,226,828 B1 5/2001 Lin  
 6,234,181 B1 5/2001 Lou  
 6,269,515 B1 8/2001 Varma  
 D448,178 S 9/2001 Tapley et al.  
 6,298,863 B1 10/2001 Byun  
 6,309,125 B1 10/2001 Peters  
 D450,189 S 11/2001 Mink et al.  
 D450,930 S 11/2001 Mink et al.  
 D450,931 S 11/2001 Mink et al.  
 6,311,358 B1 11/2001 Soetewey et al.  
 6,312,182 B1 11/2001 Dumler  
 D451,681 S 12/2001 Mink et al.  
 D454,001 S 3/2002 Mink et al.  
 6,363,948 B2 4/2002 Choi  
 D459,087 S \* 6/2002 Pflieger ..... A46B 5/02  
 D4/104  
 6,401,290 B1 6/2002 Barton et al.  
 6,405,402 B1 6/2002 Choi  
 6,418,939 B1 7/2002 Byun  
 6,438,784 B1 8/2002 Yu  
 D471,018 S 3/2003 Mink  
 D474,896 S \* 5/2003 Riddell ..... D4/138  
 D479,917 S 9/2003 Mink  
 D479,918 S 9/2003 Mink  
 D480,218 S 10/2003 Mink

(56)

References Cited

U.S. PATENT DOCUMENTS

6,669,389 B2 12/2003 Gueret  
 D485,442 S 1/2004 Twigg  
 6,832,405 B1 12/2004 Miller  
 6,880,197 B2 4/2005 Katz et al.  
 6,898,818 B2 5/2005 Lin  
 D506,069 S 6/2005 Woods  
 6,935,802 B1 8/2005 Byun  
 6,957,468 B2 10/2005 Driesen et al.  
 6,974,513 B2 12/2005 Kepka  
 7,096,598 B1 8/2006 Myatt  
 D527,529 S 9/2006 Ajluni et al.  
 D528,305 S 9/2006 Langer  
 7,101,107 B1 9/2006 Byun  
 7,107,645 B2 9/2006 Bressler et al.  
 7,111,354 B2 9/2006 Nennig et al.  
 D529,292 S 10/2006 Langer  
 7,127,770 B2 10/2006 Clegg et al.  
 7,159,266 B2\* 1/2007 Santos ..... A46B 5/0095  
 15/143.1  
 7,159,950 B2 1/2007 Young-Chul  
 7,201,527 B2 4/2007 Thorpe et al.  
 7,234,474 B2 6/2007 Byun  
 7,254,857 B2\* 8/2007 Jimenez ..... A46B 5/026  
 15/22.1  
 7,275,885 B2 10/2007 Byun  
 D562,005 S 2/2008 King  
 D562,566 S 2/2008 Mink  
 7,344,327 B2 3/2008 Gueret  
 D566,969 S 4/2008 Sherman et al.  
 D568,050 S 5/2008 Huang  
 D571,105 S 6/2008 Godin  
 7,429,141 B2 9/2008 Habatjou  
 7,465,113 B2 12/2008 Gueret  
 D584,897 S 1/2009 Belley  
 D601,804 S 10/2009 Hwang  
 7,653,960 B2 2/2010 Lee  
 D612,615 S 3/2010 Chitayat et al.  
 7,716,775 B2 5/2010 DiPietro et al.  
 D626,338 S 11/2010 Ajootian  
 7,866,758 B2 1/2011 Jang  
 D631,666 S 2/2011 Lim  
 D632,488 S 2/2011 Twigg  
 7,895,696 B2 3/2011 Belmonte  
 7,895,698 B2 3/2011 Mink  
 7,918,620 B2 4/2011 Del Ponte  
 7,950,402 B1 5/2011 Cole  
 7,996,947 B2 8/2011 Gueret  
 D646,899 S\* 10/2011 Dombrowski ..... D4/132  
 8,060,972 B2\* 11/2011 Geiberger ..... A46B 5/02  
 15/143.1  
 8,074,666 B2 12/2011 Piao  
 D651,409 S 1/2012 Papenfu  
 8,104,132 B2 1/2012 Mink  
 8,117,707 B1 2/2012 Ruh, II  
 8,132,285 B2 3/2012 Piao  
 8,132,541 B1 3/2012 Baer, Jr.  
 D658,385 S 5/2012 Lim et al.  
 D658,389 S 5/2012 Salgatar  
 8,185,998 B2 5/2012 Xu  
 8,220,469 B1 7/2012 Spagnuolo  
 8,230,543 B2 7/2012 Shrier et al.  
 8,251,074 B2 8/2012 Pires et al.  
 8,256,058 B2 9/2012 Telwar  
 8,307,836 B2 11/2012 Pires et al.  
 8,321,987 B2 12/2012 Bagley  
 8,360,078 B2 1/2013 Lim et al.  
 D677,059 S 3/2013 Floyd  
 D677,060 S 3/2013 Floyd  
 D677,470 S 3/2013 Floyd  
 8,402,592 B2 3/2013 Byrne et al.  
 D681,342 S 5/2013 Brower  
 D691,375 S\* 10/2013 Heil ..... D4/101

D717,548 S 11/2014 Lim  
 8,881,745 B2 11/2014 Pires et al.  
 8,899,243 B2 12/2014 Pires et al.  
 D725,912 S 4/2015 Sims  
 D800,457 S\* 10/2017 Kaicker ..... D4/138  
 2002/0078902 A1 6/2002 Ehrmann  
 2002/0148058 A1 10/2002 Greenwood et al.  
 2003/0005533 A1 1/2003 Woodnorth et al.  
 2003/0035953 A1 2/2003 Wehrauch  
 2003/0066151 A1 4/2003 Chang  
 2003/0110585 A1 6/2003 Rechelbacher  
 2004/0134009 A1 7/2004 Sander et al.  
 2004/0168700 A1 9/2004 Dort  
 2005/00111030 A1 1/2005 Gonzalez  
 2005/0031401 A1 2/2005 Gueret  
 2005/0198759 A1 9/2005 Segrea  
 2005/0273962 A1 12/2005 Dillon  
 2006/0026783 A1 2/2006 McKay  
 2006/0150355 A1 7/2006 Mason et al.  
 2006/0162736 A1 7/2006 Gray  
 2006/0254012 A1 11/2006 Konishi  
 2006/0272668 A1 12/2006 Wyatt et al.  
 2007/0034224 A1 2/2007 Dumler  
 2007/0124882 A1 6/2007 Lee  
 2007/0151061 A1 7/2007 Mink et al.  
 2007/0199575 A1 8/2007 Del Ponte  
 2007/0289602 A1 12/2007 Simmons  
 2007/0295351 A1 12/2007 Germer  
 2008/0060668 A1 3/2008 Legassie  
 2008/0256733 A1 10/2008 Brown  
 2008/0276396 A1 11/2008 Lucero  
 2009/0041530 A1 2/2009 Deans  
 2009/0089949 A1 4/2009 Mink et al.  
 2009/0119863 A1 5/2009 Gallegos  
 2009/0183328 A1 7/2009 King  
 2009/0260172 A1 10/2009 Weiss  
 2010/0017990 A1 1/2010 Piao  
 2010/0037407 A1 2/2010 Telwar  
 2010/0043815 A1 2/2010 Levy et al.  
 2010/0059080 A1 3/2010 Gueret  
 2010/0236004 A1 9/2010 Xu  
 2011/0056505 A1 3/2011 Parkinson et al.  
 2011/0083690 A1 4/2011 Cardenas et al.  
 2012/0017930 A1 1/2012 Nance  
 2012/0260931 A1 10/2012 Martin et al.  
 2012/0272982 A1 11/2012 Telwar et al.  
 2012/0298130 A1 11/2012 Telwar  
 2013/0017010 A1 1/2013 Liu  
 2013/0111683 A1 5/2013 Lim et al.  
 2014/0259489 A1 9/2014 Dale  
 2014/0325775 A1 11/2014 Nakamura et al.  
 2014/0331422 A1 11/2014 Lim  
 2014/0332027 A1 11/2014 Lim  
 2017/0188691 A1\* 7/2017 Richards ..... A46B 5/0095

FOREIGN PATENT DOCUMENTS

CN 304808763 \* 9/2018  
 DE 29713124 U1 9/1997  
 EP 2084986 A2 8/2009  
 FR 2464674 A1 3/1981  
 FR 2642283 A1 8/1990  
 FR 2976463 A1 12/2012  
 JP 2003033228 A 2/2003  
 JP 2003135140 A 5/2003  
 JP D1218834 C 10/2004  
 JP D1343552 C 11/2008  
 JP 2009172300 A 8/2009  
 KR 300365471.0000 10/2004  
 KR 300404554.0000 12/2004  
 KR 300607863.0000 8/2011  
 WO 9211785 A1 7/1992  
 WO 2006034815 A2 4/2006  
 WO 2007117091 A1 10/2007

\* cited by examiner

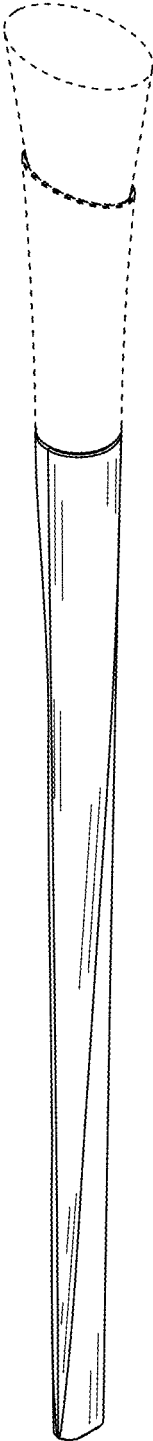


Figure 1

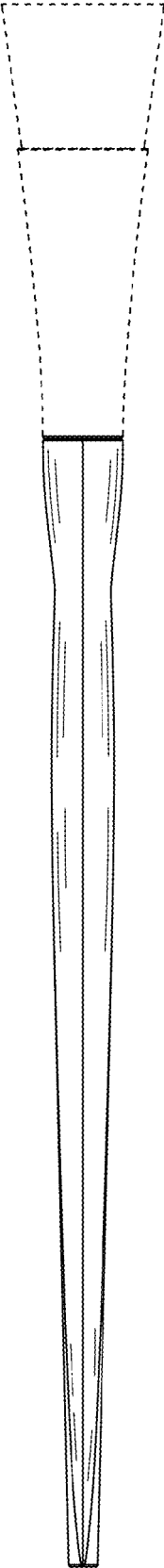


Figure 2

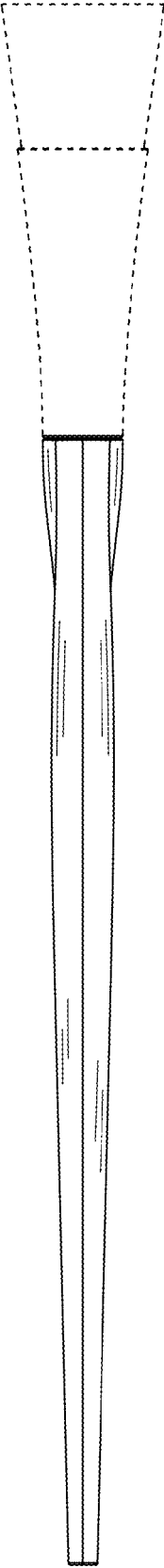


Figure 3

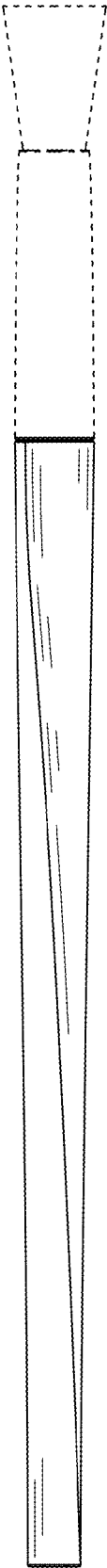


Figure 4

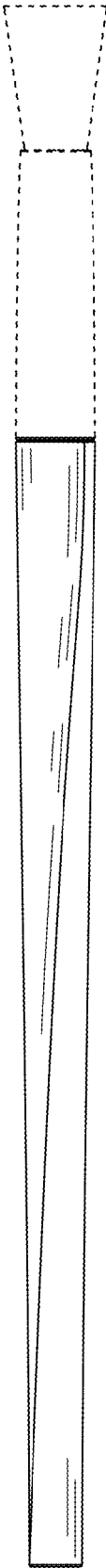


Figure 5





Figure 6

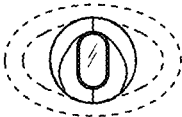


Figure 7

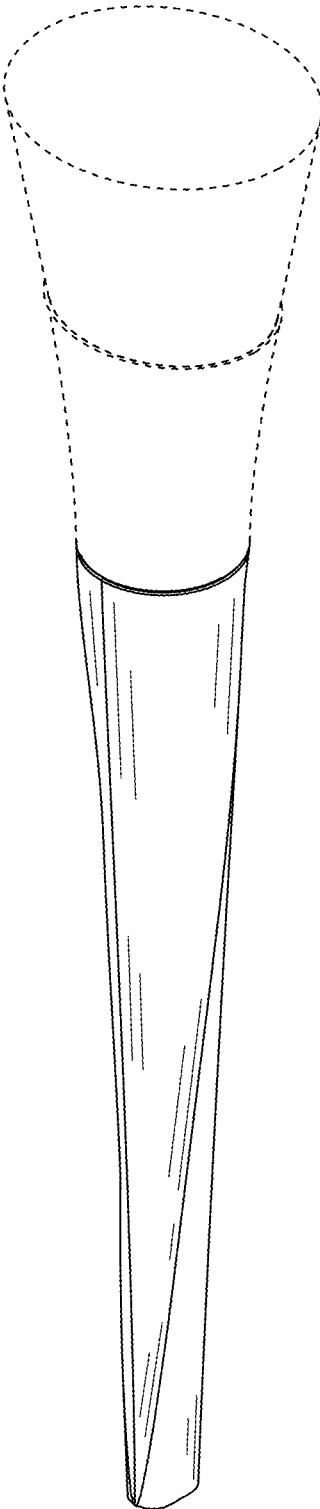


Figure 8

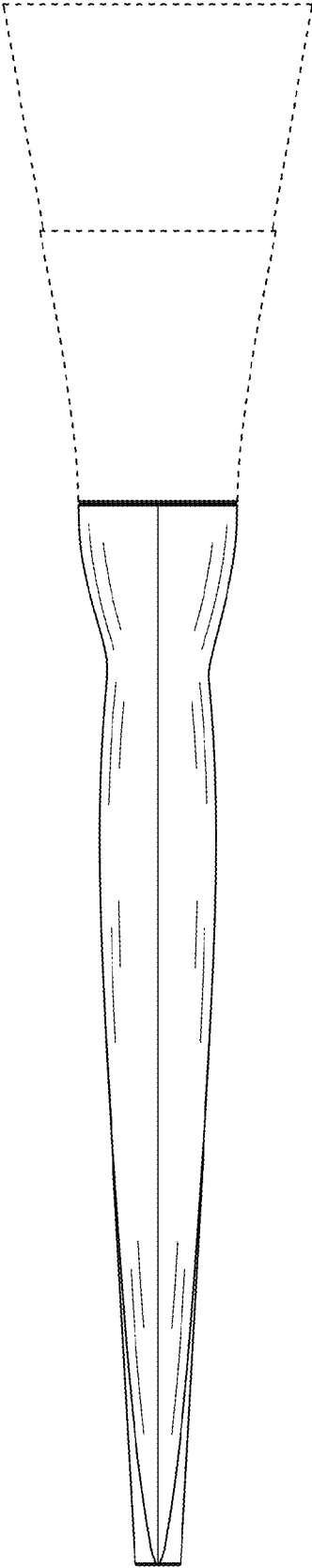


Figure 9

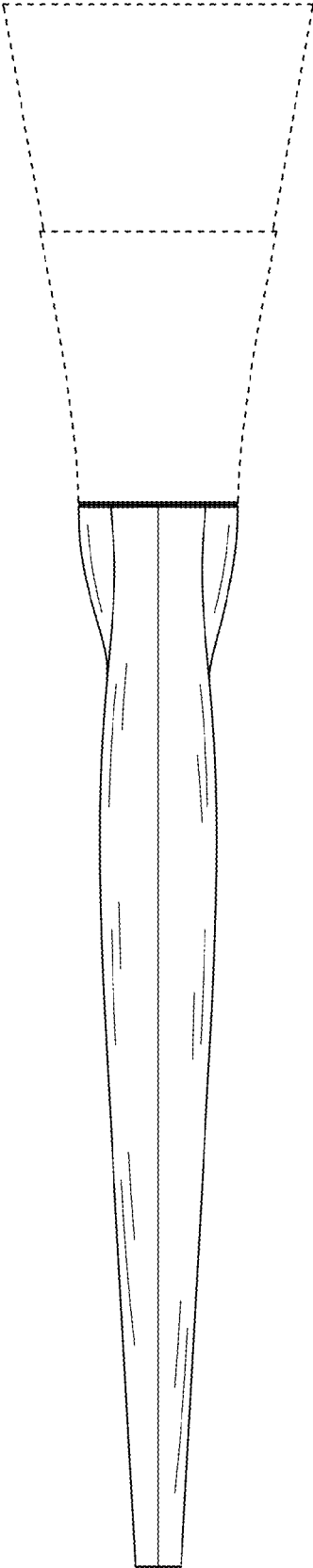


Figure 10

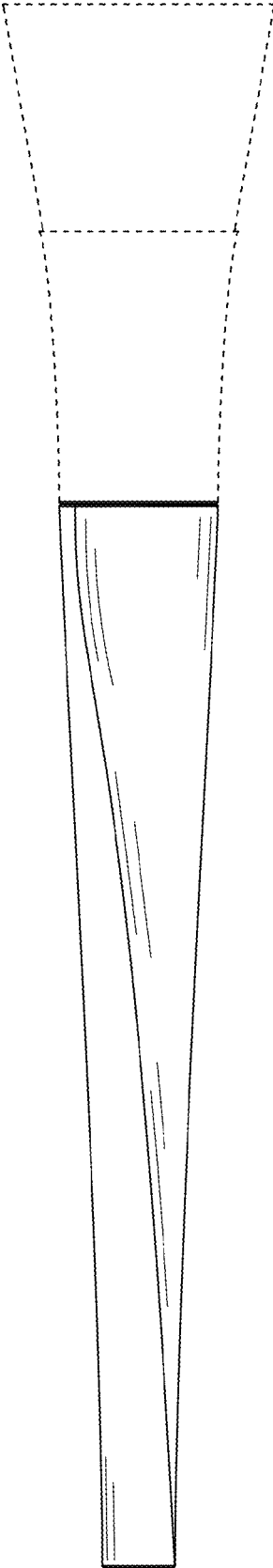


Figure 11

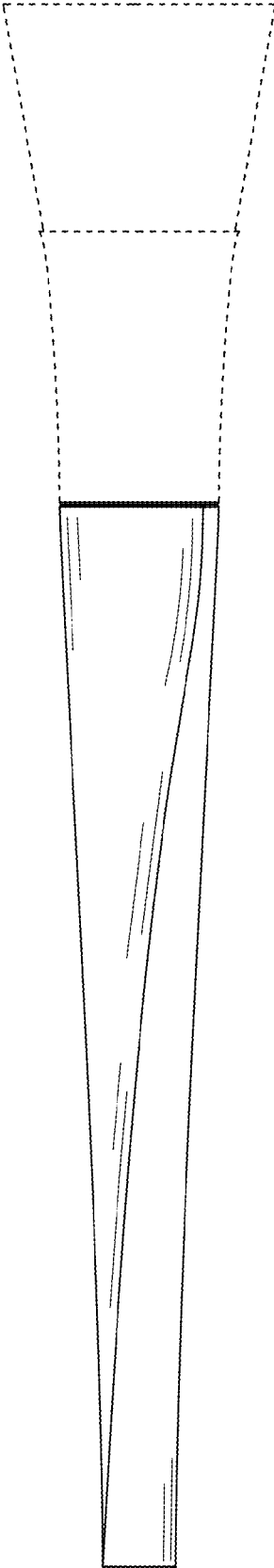


Figure 12

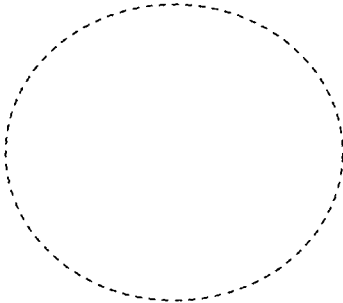


Figure 13



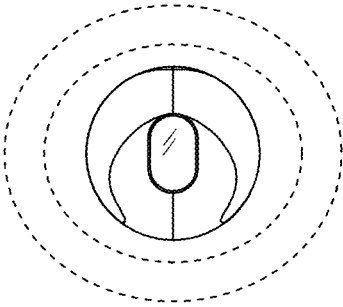


Figure 14