



US00D629884S

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

(10) **Patent No.:** **US D629,884 S**

(45) **Date of Patent:** **** Dec. 28, 2010**

(54) **POWERED IRRIGATOR FOR SINUS CAVITY RINSE**

FOREIGN PATENT DOCUMENTS

CA 851479 9/1970

(Continued)

(75) Inventor: **William Stephens**, Boulder, CO (US)

(73) Assignee: **Water Pik, Inc.**, Fort Collins, CO (US)

OTHER PUBLICATIONS

(**) Term: **14 Years**

Author Unknown, "NasaFlo Neti Pot," <http://www.neilmed.com/usa/nasaflo.php>, 1 page, at least as early as Dec. 9, 2009.

(21) Appl. No.: **29/352,098**

(Continued)

(22) Filed: **Dec. 16, 2009**

Primary Examiner—Ian Simmons
Assistant Examiner—Charles D Hanson

(51) **LOC (9) Cl.** **24-02**

(74) *Attorney, Agent, or Firm*—Dorsey & Whitney LLP

(52) **U.S. Cl.** **D24/108**

(58) **Field of Classification Search** D24/108,
D24/110, 111; D7/312, 321; 604/94.01,
604/73, 93.01, 275, 217; D9/526, 723, 724,
D9/529, 551, 575

(57) **CLAIM**

The ornamental design for a powered irrigator for sinus cavity rinse, as shown and described.

See application file for complete search history.

DESCRIPTION

(56) **References Cited**

U.S. PATENT DOCUMENTS

555,588 A	3/1896	Spencer
1,278,225 A	9/1918	Schamberg
1,498,267 A	6/1924	Hachman
1,681,320 A	8/1928	Bergl et al.
1,933,454 A	10/1933	Sidney
2,115,959 A	5/1938	Lewis
2,571,921 A	10/1951	Morris
2,578,864 A	12/1951	Tupper
2,669,233 A	2/1954	Friend
2,794,437 A	6/1954	Tash
2,783,919 A	3/1957	Ansell
2,811,283 A	10/1957	Bowen
3,089,490 A	3/1960	Goldberg
2,984,452 A	5/1961	Hooper
3,096,913 A	7/1963	Jousson
3,144,867 A	8/1964	Trupp et al.

FIG. 1 is a top, right, front isometric view of a powered irrigator for sinus cavity rinse.

FIG. 2 is a right elevation view of the powered irrigator for sinus cavity rinse of FIG. 1.

FIG. 3 is a left elevation view of the powered irrigator for sinus cavity rinse of FIG. 1.

FIG. 4 is a front elevation view of the powered irrigator for sinus cavity rinse of FIG. 1.

FIG. 5 is a rear elevation view of the powered irrigator for sinus cavity rinse of FIG. 1.

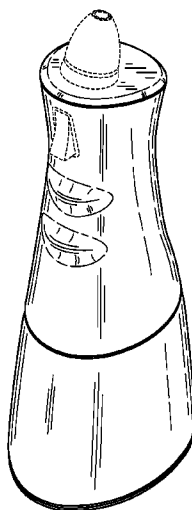
FIG. 6 is a top plan view of the powered irrigator for sinus cavity rinse of FIG. 1; and,

FIG. 7 is a bottom plan view of the powered irrigator for sinus cavity rinse of FIG. 1.

The broken lines shown in the drawings are for purposes of illustrating use and environment only and form no part of the claimed design.

(Continued)

1 Claim, 4 Drawing Sheets



US D629,884 S

Page 2

U.S. PATENT DOCUMENTS					
			4,229,634	A	10/1980 Hickman et al.
3,209,956	A	10/1965 McKenzie	4,236,889	A	12/1980 Wright
3,216,619	A	11/1965 Richards et al.	4,248,589	A	2/1981 Lewis
3,225,759	A	12/1965 Drapen et al.	4,249,899	A	2/1981 Davis
3,227,158	A	1/1966 Mattingly	4,262,799	A	4/1981 Perrett
3,297,558	A	1/1967 Hillquist	4,266,934	A	5/1981 Pernot
D208,778	S	10/1967 Koch	4,276,023	A	6/1981 Phillips et al.
D209,395	S	11/1967 Gilbert	4,276,880	A	7/1981 Malmin
3,363,808	A	1/1968 Gorman	4,302,186	A	11/1981 Cammack et al.
3,370,214	A	2/1968 Aymar	4,303,064	A	12/1981 Buffa
3,391,696	A	7/1968 Woodward	4,303,070	A	12/1981 Ichikawa et al.
3,400,999	A	9/1968 Goldstein	4,315,741	A	2/1982 Reichl
3,420,228	A	1/1969 Kalbfeld	4,319,568	A	3/1982 Tregoning
3,453,969	A	7/1969 Mattingly	4,331,422	A	5/1982 Heyman
3,465,751	A	9/1969 Powers	4,337,040	A	6/1982 Cammack et al.
3,481,552	A	12/1969 Holmes	4,340,365	A	7/1982 Pisanu
3,487,828	A	1/1970 Troy	4,340,368	A	7/1982 Lococo
3,489,268	A	1/1970 Meierhoefer	D266,117	S	9/1982 Oberheim
3,496,933	A	2/1970 Lloyd	4,356,941	A	11/1982 McRoskey et al.
3,499,440	A	3/1970 Gibbs	4,363,626	A	12/1982 Schmidt et al.
3,501,203	A	3/1970 Falk	4,365,376	A	12/1982 Oda et al.
3,502,072	A	3/1970 Stillman	4,370,131	A	1/1983 Banko
3,517,669	A	6/1970 Buono et al.	4,374,354	A	2/1983 Petrovic et al.
D218,270	S	8/1970 Soper	4,382,167	A	5/1983 Maruyama et al.
3,522,801	A	8/1970 Robinson	4,382,786	A	5/1983 Lohn
3,536,065	A	10/1970 Moret	D270,000	S	8/1983 Ketler
3,537,444	A	11/1970 Garn	4,412,823	A	11/1983 Sakai et al.
3,538,950	A	11/1970 Porteners	4,439,206	A	3/1984 Hildebrand et al.
3,547,110	A	12/1970 Balamuth	4,442,830	A	4/1984 Markau
3,572,375	A	3/1971 Rosenberg	4,442,831	A	4/1984 Trenary
3,578,884	A	5/1971 Jacobson	4,452,238	A	6/1984 Kerr
3,583,609	A	6/1971 Oppenheimer	4,454,866	A	6/1984 Fayen
3,590,813	A	7/1971 Roszyk	4,489,535	A	12/1984 Veltman
3,608,548	A	9/1971 Lewis	4,512,769	A	4/1985 Kozam et al.
3,636,947	A	1/1972 Balamuth	4,513,891	A	4/1985 Hain et al.
3,651,576	A	3/1972 Massa	4,517,962	A	5/1985 Heckeke
3,703,170	A	11/1972 Ryckman, Jr.	4,531,912	A	7/1985 Schuss et al.
3,747,595	A	7/1973 Grossan	4,531,913	A	7/1985 Taguchi
3,768,472	A	10/1973 Hodosh et al.	4,534,340	A	8/1985 Kerr et al.
3,783,364	A	1/1974 Gallanis et al.	4,552,130	A	11/1985 Kinoshita
3,809,977	A	5/1974 Balamuth et al.	4,555,469	A	11/1985 Erdmann et al.
3,827,147	A	8/1974 Condon	D283,374	S	4/1986 Cheuk-Yiu
3,840,795	A	10/1974 Roszyk et al.	4,585,415	A	4/1986 Hommann
3,847,145	A	11/1974 Grossan	4,591,777	A	5/1986 McCarty et al.
3,854,209	A	12/1974 Franklin et al.	4,592,728	A	6/1986 Davis
3,874,506	A	4/1975 Hill et al.	4,602,906	A	7/1986 Grunenfelder
3,912,125	A	10/1975 Acklin	4,607,627	A	8/1986 Leber et al.
3,943,628	A	3/1976 Kronman et al.	4,613,074	A	9/1986 Schulze
3,973,558	A	8/1976 Stouffer et al.	4,619,612	A	10/1986 Weber et al.
4,001,526	A	1/1977 Olson	4,629,425	A	12/1986 Detsch
4,004,302	A	1/1977 Hori	4,636,198	A	1/1987 Stade
4,007,739	A	2/1977 Bron et al.	4,644,937	A	2/1987 Hommann
D246,667	S	12/1977 Mackay et al.	4,645,488	A	2/1987 Matukas
4,060,870	A	12/1977 Cannarella	4,647,831	A	3/1987 O'Malley et al.
4,075,761	A	2/1978 Behne et al.	4,648,838	A	3/1987 Schlachter
4,078,558	A	3/1978 Woog et al.	4,650,475	A	3/1987 Smith et al.
4,083,840	A	4/1978 Schoelberger	4,655,198	A	4/1987 Hommann
4,108,167	A	8/1978 Hickman et al.	4,669,453	A	6/1987 Atkinson et al.
4,108,178	A	8/1978 Betush	4,672,953	A	6/1987 DiVito
4,109,650	A	8/1978 Peclard	4,673,396	A	6/1987 Urbaniak
D250,546	S	12/1978 Pick et al.	D291,354	S	8/1987 Camens
D250,601	S	12/1978 Pick et al.	4,716,352	A	12/1987 Hurn et al.
4,141,352	A	2/1979 Ebner et al.	4,770,632	A	9/1988 Ryder et al.
4,144,646	A	3/1979 Takemoto et al.	4,783,321	A	11/1988 Spence
4,149,315	A	4/1979 Page, Jr. et al.	4,787,845	A	11/1988 Valentine
4,154,375	A	5/1979 Bippus	4,787,847	A	11/1988 Martin et al.
4,160,383	A	7/1979 Rauschenberger	4,798,292	A	1/1989 Hauze
4,182,038	A	1/1980 Fleer	4,803,974	A	2/1989 Powell
4,201,200	A	5/1980 Hubner	4,804,364	A	2/1989 Dieras et al.
4,215,476	A	8/1980 Armstrong	4,818,229	A	4/1989 Vasile
4,219,618	A	8/1980 Leonard	4,820,152	A	4/1989 Warrin et al.
4,227,878	A	10/1980 Lohn	4,821,923	A	4/1989 Skorka
			4,824,368	A	4/1989 Hickman

US D629,884 S

Page 3

4,826,431 A	5/1989	Fujimura et al.	5,286,192 A	2/1994	Dixon
4,832,683 A	5/1989	Idemoto et al.	5,286,201 A	2/1994	Yu
4,854,869 A	8/1989	Lawhorn	5,297,962 A	3/1994	O'Connor et al.
4,861,340 A	8/1989	Smith et al.	D346,212 S	4/1994	Hosl
4,862,876 A	9/1989	Lih-Sheng	5,302,123 A	4/1994	Bechard
4,869,720 A	9/1989	Chernack	5,316,054 A	5/1994	Hall et al.
4,880,382 A	11/1989	Moret et al.	5,317,691 A	5/1994	Traeger
D305,262 S	12/1989	Nichols	5,321,865 A	6/1994	Kaeser
4,886,452 A	12/1989	Lohn	5,330,634 A	7/1994	Wong et al.
4,902,225 A	2/1990	Lohn	5,344,317 A	9/1994	Pacher et al.
4,903,687 A	2/1990	Lih-Sheng	5,346,677 A	9/1994	Risk
4,906,187 A	3/1990	Amadera	D351,892 S	10/1994	Wolf et al.
4,907,744 A	3/1990	Jousson	5,354,849 A	10/1994	Schoefberger
4,925,128 A	5/1990	Brody	5,360,338 A	11/1994	Waggoner
4,925,450 A	5/1990	Imonti et al.	5,368,548 A	11/1994	Jousson
4,928,675 A	5/1990	Thornton	5,370,534 A	12/1994	Wolf et al.
4,930,660 A	6/1990	Porteous	D354,168 S	1/1995	Hartwein
4,941,459 A	7/1990	Mathur	5,378,149 A	1/1995	Stropko
4,950,159 A	8/1990	Hansen	5,380,201 A	1/1995	Kawata
4,958,629 A	9/1990	Peace et al.	D356,864 S	3/1995	Woog
4,958,751 A	9/1990	Curtis et al.	5,399,089 A	3/1995	Eichman et al.
4,961,698 A	10/1990	Vlock	D358,883 S	5/1995	Vos
4,966,551 A	10/1990	Betush	5,456,672 A	10/1995	Diederich et al.
4,969,874 A	11/1990	Michel et al.	5,468,148 A	11/1995	Ricks
4,973,247 A	11/1990	Varnes et al.	5,470,305 A	11/1995	Arnett et al.
4,973,250 A	11/1990	Milman	5,474,450 A	12/1995	Chronister
4,975,054 A	12/1990	Esrock	5,474,451 A	12/1995	Dalrymple et al.
4,979,503 A	12/1990	Chernack	5,476,379 A	12/1995	Disel
4,979,504 A	12/1990	Mills	5,484,281 A	1/1996	Renow et al.
4,989,590 A	2/1991	Baum et al.	5,487,877 A	1/1996	Choi
4,998,880 A	3/1991	Nerli	5,490,779 A	2/1996	Malmin
5,013,241 A	5/1991	Von Gutfeld et al.	5,505,916 A	4/1996	Berry, Jr.
5,014,884 A	5/1991	Wunsch	D369,656 S	5/1996	Vos
5,019,054 A	5/1991	Clement et al.	5,525,058 A	6/1996	Gallant et al.
5,027,798 A	7/1991	Primiano	5,526,841 A	6/1996	Detsch et al.
5,029,576 A	7/1991	Evans, Sr.	5,540,587 A	7/1996	Malmin
5,033,961 A	7/1991	Kankler et al.	5,547,374 A	8/1996	Coleman
D318,918 S	8/1991	Hartwein	D373,631 S	9/1996	Maeda et al.
5,049,071 A	9/1991	Davis et al.	5,554,025 A	9/1996	Kinsel
5,060,825 A	10/1991	Palmer et al.	5,616,028 A	4/1997	Hafele et al.
5,064,168 A	11/1991	Raines et al.	5,634,791 A	6/1997	Matsuura et al.
5,082,443 A	1/1992	Lohn	5,636,987 A	6/1997	Serfaty
5,086,756 A	2/1992	Powell	5,640,735 A	6/1997	Manning
5,095,893 A	3/1992	Rawden, Jr.	5,653,591 A	8/1997	Loge
5,098,291 A	3/1992	Curtis et al.	5,667,483 A	9/1997	Santos
5,125,835 A	6/1992	Young	5,697,784 A	12/1997	Hafele et al.
5,127,831 A	7/1992	Bab	5,709,545 A	1/1998	Johnston et al.
5,142,723 A	9/1992	Lustig et al.	D390,744 S	2/1998	Otero
5,150,841 A	9/1992	Silvenis et al.	5,716,007 A	2/1998	Nottingham et al.
5,172,810 A	12/1992	Brewer	5,749,726 A	5/1998	Kinsel
5,173,273 A	12/1992	Brewer	5,759,502 A	6/1998	Spencer et al.
5,183,035 A	2/1993	Weir	5,806,723 A	9/1998	DuBose
5,197,458 A	3/1993	Ito et al.	5,851,079 A	12/1998	Horstman et al.
5,197,460 A	3/1993	Ito et al.	D403,511 S	1/1999	Serbinski
5,199,871 A	4/1993	Young	D405,525 S	2/1999	Barrett et al.
5,203,697 A	4/1993	Malmin	D406,334 S	3/1999	Rosenthal et al.
5,204,004 A	4/1993	Johnston et al.	5,876,201 A	3/1999	Wilson et al.
5,208,933 A	5/1993	Lustig et al.	5,897,872 A	4/1999	Picciano
5,218,956 A	6/1993	Handler et al.	5,899,878 A	5/1999	Glassman
5,220,914 A	6/1993	Thompson	D413,975 S	9/1999	Maeda
5,228,646 A	7/1993	Raines	5,967,377 A	10/1999	Glynn
5,230,624 A	7/1993	Wolf et al.	D417,082 S	11/1999	Classen et al.
5,232,687 A	8/1993	Geimer	5,993,402 A	11/1999	Sauer et al.
5,235,968 A	8/1993	Woog	6,030,215 A	2/2000	Ellion et al.
5,246,367 A	9/1993	Ito et al.	6,039,180 A	3/2000	Grant
5,252,064 A	10/1993	Baum et al.	D424,197 S	5/2000	Sydrowski et al.
5,257,933 A	11/1993	Jousson	D425,615 S	5/2000	Bachman et al.
D341,943 S	12/1993	Si-Hoe	D425,981 S	5/2000	Bachman et al.
5,267,586 A	12/1993	Jankavaara	6,056,710 A	5/2000	Bachman et al.
5,269,684 A	12/1993	Fischer	D426,300 S	6/2000	Conforti
5,281,137 A	1/1994	Jousson	D426,633 S	6/2000	Bachman et al.
5,281,139 A	1/1994	Frank et al.	6,124,699 A	9/2000	Suzuki et al.
5,282,745 A	2/1994	Wiltout et al.	D434,500 S	11/2000	Pollock et al.

6,159,006 A 12/2000 Cook et al.
D435,905 S 1/2001 Bachman et al.
6,193,932 B1 2/2001 Wu et al.
D439,781 S 4/2001 Spore
6,217,835 B1 4/2001 Riley et al.
D441,861 S 5/2001 Hafliger
6,234,205 B1 5/2001 D'Amelio et al.
6,238,377 B1 5/2001 Liu
6,247,929 B1 6/2001 Bachman et al.
6,293,436 B2 9/2001 Faughnder et al.
D449,884 S 10/2001 Tobin et al.
6,468,482 B1 10/2002 Frieze et al.
6,475,173 B1 11/2002 Bachman et al.
6,497,572 B2 12/2002 Hood et al.
6,502,584 B1 1/2003 Fordham
D470,660 S 2/2003 Schaber
6,520,384 B2 2/2003 Mehta
D475,346 S 6/2003 McCurrach et al.
6,589,477 B1 7/2003 Frieze et al.
6,632,091 B1 10/2003 Cise et al.
D481,794 S 11/2003 Krinsky
D482,451 S 11/2003 Page et al.
6,659,674 B2 12/2003 Carlucci et al.
6,669,059 B2* 12/2003 Mehta 222/211
D486,573 S 2/2004 Callaghan et al.
6,688,497 B2 2/2004 Mehta
6,689,078 B1 2/2004 Rehkemper et al.
6,699,208 B2 3/2004 Bachman et al.
6,719,561 B2 4/2004 Gugel et al.
D489,183 S 5/2004 Akahori et al.
6,736,792 B1 5/2004 Liu
6,739,782 B1 5/2004 Rehkemper et al.
D490,896 S 6/2004 Bogazzi
D490,899 S 6/2004 Gagnon
D492,996 S 7/2004 Rehkemper et al.
6,766,549 B2 7/2004 Klupt
D493,888 S 8/2004 Reschke
D495,142 S 8/2004 Berde
D495,143 S 8/2004 Berde
6,779,216 B2 8/2004 Davies et al.
6,783,004 B1 8/2004 Rinner
D495,954 S 9/2004 Solomon
6,796,796 B2 9/2004 Segal
D497,107 S 10/2004 Hama et al.
D499,885 S 12/2004 Xi
6,884,069 B2 4/2005 Goldman
D509,585 S 9/2005 Kling et al.
D513,638 S 1/2006 Pan
D530,010 S 10/2006 Luettgen et al.
D530,815 S 10/2006 Murphy et al.
D533,720 S 12/2006 Vu
7,147,468 B2 12/2006 Snyder et al.
D538,474 S* 3/2007 Sheppard et al. D28/7
D548,334 S* 8/2007 Izumi D24/111
D550,097 S* 9/2007 Lepoitevin D9/668
7,306,121 B2 12/2007 Ophardt et al.
D558,509 S 1/2008 Bodum
D558,510 S 1/2008 Bodum
D562,404 S 2/2008 Jansen et al.
D565,175 S 3/2008 Boyd et al.
D590,493 S 4/2009 Harlan et al.
D601,697 S* 10/2009 Sobiech et al. D24/133
D603,708 S* 11/2009 Handy D9/529
D608,645 S 1/2010 Handy et al.
7,670,141 B2 3/2010 Thomas et al.
2003/0098249 A1 5/2003 Rollock
2003/0213075 A1 11/2003 Hui et al.

2004/0122377 A1 6/2004 Fischer et al.
2004/0209222 A1 10/2004 Snyder et al.
2005/0004498 A1 1/2005 Klupt
2005/0271531 A1 12/2005 Brown et al.
2007/0105065 A1 5/2007 Snyder et al.
2007/0202459 A1 8/2007 Boyd et al.
2007/0203439 A1 8/2007 Boyd et al.
2008/0294124 A1 11/2008 Mehta

FOREIGN PATENT DOCUMENTS

CH	655237	4/1987
DE	1466963	5/1969
DE	2409752	9/1975
DE	2545936	4/1977
DE	2910982	2/1980
DE	29602605	4/1996
EP	0023672	7/1980
FR	2556954	6/1985
FR	2654627	5/1991
GB	881807	10/1958
GB	1182031	2/1970
GB	2018605	10/1979
WO	WO9629044	9/1996
WO	WO 2004/021958	3/2004
WO	WO 2004/039205	5/2004

OTHER PUBLICATIONS

Author Unknown, "SinuFlo Ready Rinse," <http://www.neilmed.com/usa/sinuflo.php>, 1 page, at least as early as Dec. 9, 2009.
Author Unknown, "Sinus Rinse Nasal Wash," <http://www.neilmed.com/usa/sinusrinse.php>, 3 pages, at least as early as Dec. 9, 2009.
Papsin et al., "Saline Nasal Irrigation," Canadian Family Physician, vol. 49, pp. 168-173, Feb. 2003.
Rabago et al., "Efficacy of Daily Hypertonic Saline Nasal Irrigation Among Patients with Sinusitis: A Randomized Controlled Trial," The Journal of Family Practice, vol. 51, No. 12, pp. 1049-1055, Dec. 2002.
Schumann et al., "Patients Insist on Antibiotics for Sinusitis? Here is a Good Reason to Say 'No'," The Journal of Family Practice, vol. 57, No. 7, pp. 464-468, Jul. 2008.
US RE27,274, 1/1972, Mattingly (withdrawn).
The Right Tool, Electron Fusion Devices, Inc., 2 pages, at least as early as Feb. 1991.
Japanese Packaging, 2 pages, at least as early as Dec. 2002.
Japanese Instruction Brochure, 2 pages, at least as early as Dec. 2002.
Brochure: Woog International, "You have a 98% chance of getting gum disease. Unless you read this.", Lancaster, Pennsylvania, Feb. 1987.
Brochure: Woog International, "We put the control of home dental care back into the hands of the professional", Lancaster, Pennsylvania, Feb. 1987.
Brochure: Woog International, "Products at a Glance: Home Dental Care System" Woog Orajet, at least as early as Dec. 18, 1998.
Website: http://www.just4teeth.com/product/Panasonic/Panasonic_Portable_Irrigator.htm, 2 pages, at least as early as Jun. 20, 2003.
Website: http://www.videodirectstore.com/store/merchant.mv?Screen=PROD&Product_Code=EW1..., 2 pages, at least as early as Jun. 20, 2003.
Website: <http://www.products.consumerguide.com/cp/family-review/index.dfm/id/18742>, 2 pages, at least as early as Jun. 20, 2003.
Website: <http://www.racekarteng.com/images/walbroparts.gif> and <http://www.muller.net/mullermachine/docs/walbro1.html>, 4 pages, at least as early as Jun. 20, 2003.

* cited by examiner

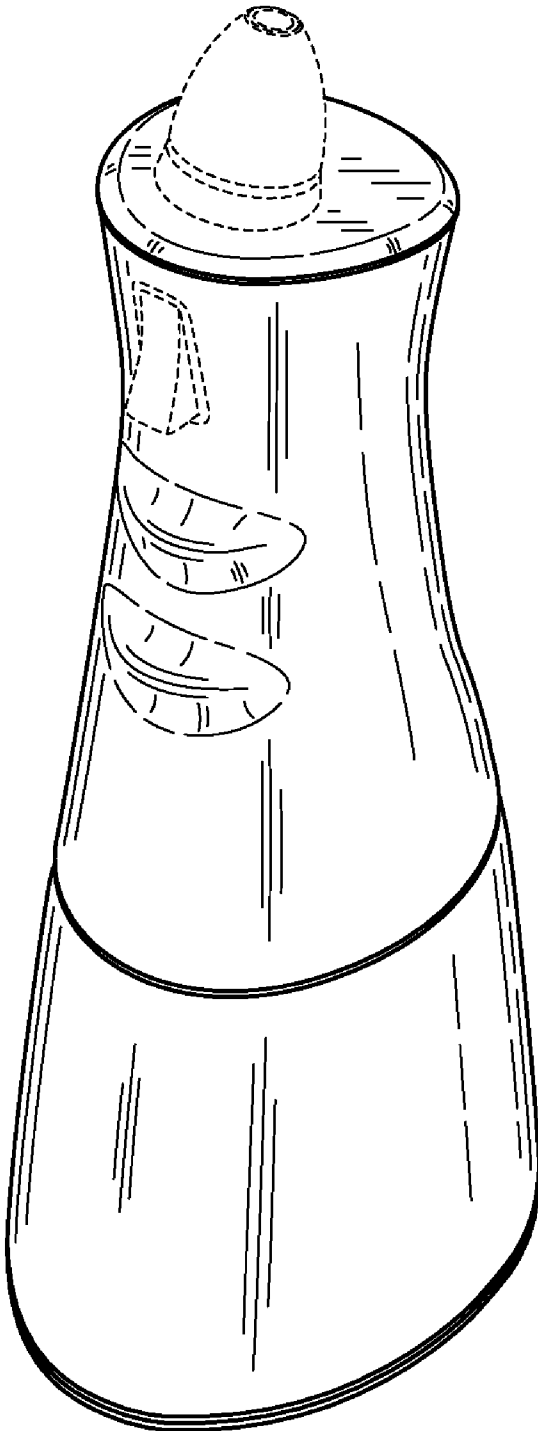


FIG.1

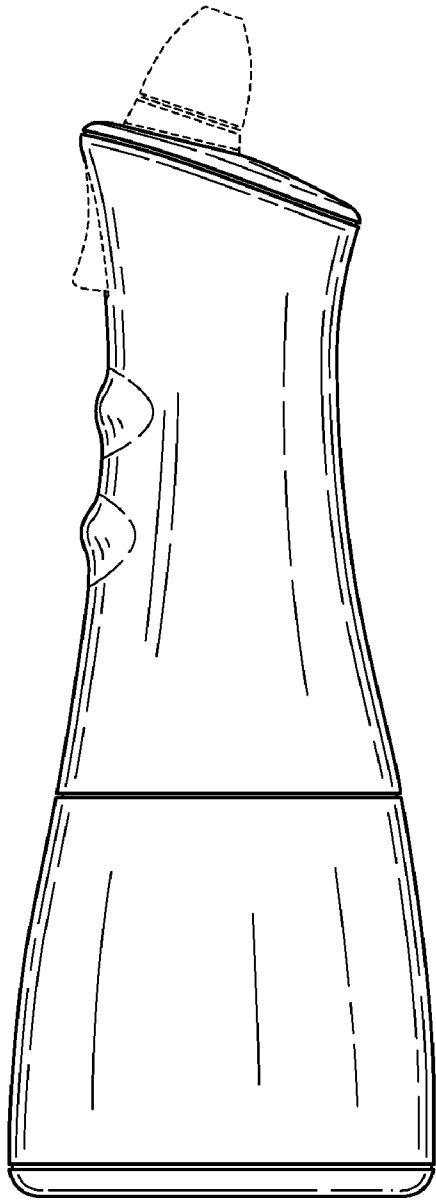


FIG.2

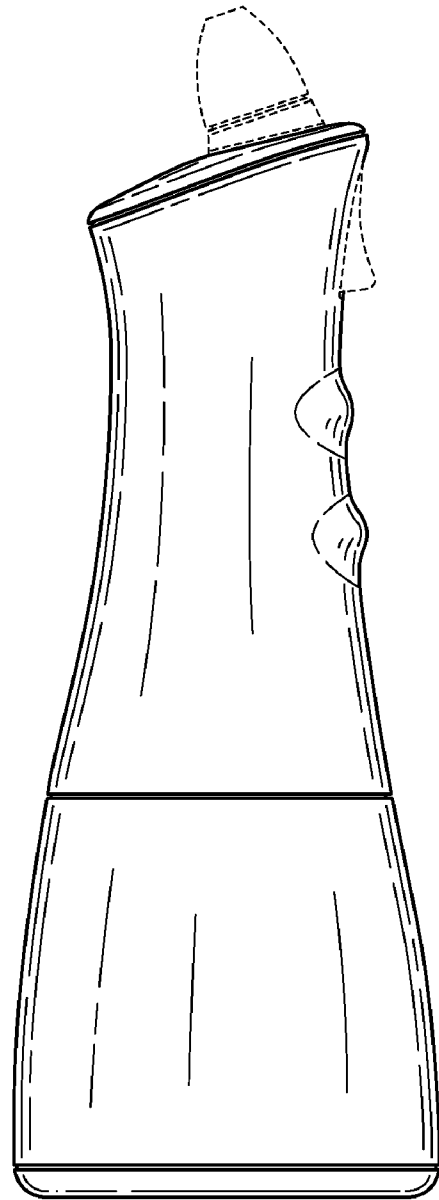


FIG.3

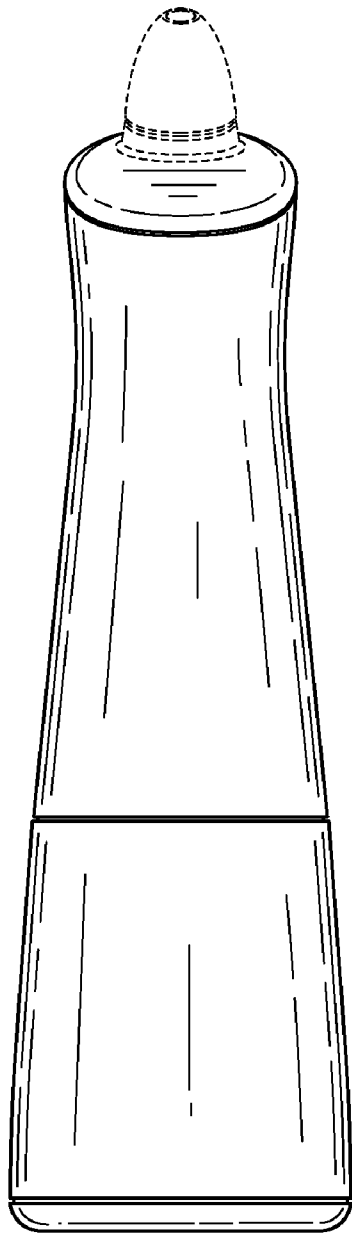


FIG. 4

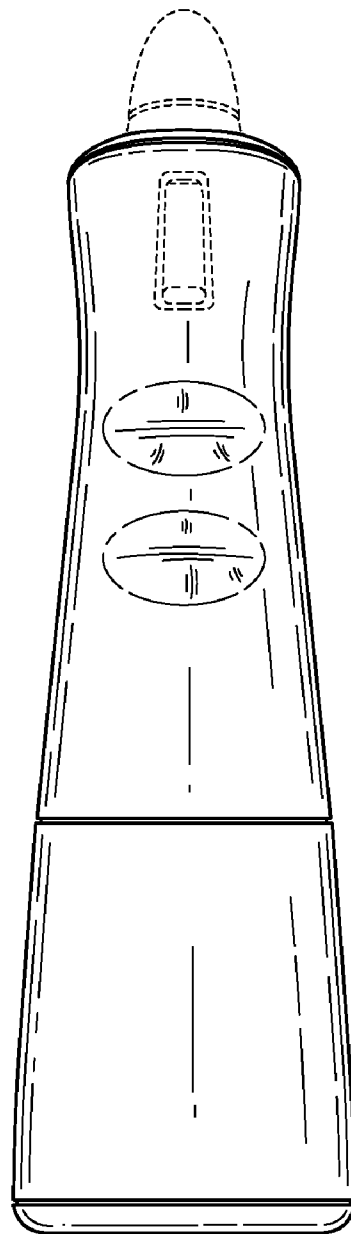


FIG. 5

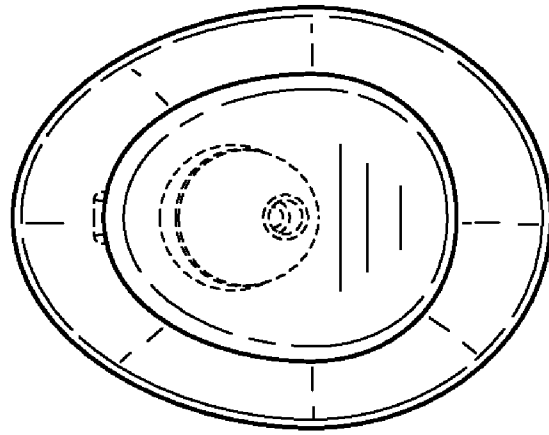


FIG. 6

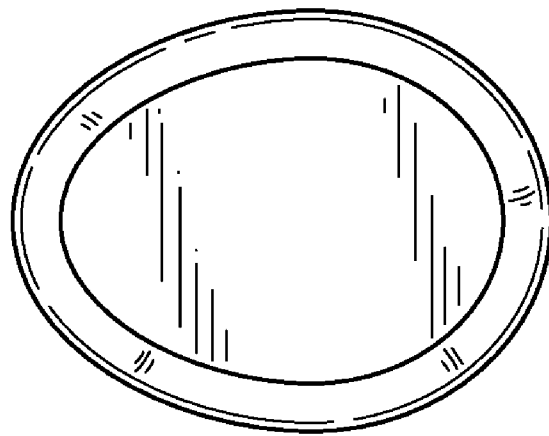


FIG. 7