



US00D921889S

(12) **United States Design Patent**
Milella, Jr. et al.

(10) **Patent No.:** **US D921,889 S**
(45) **Date of Patent:** **** Jun. 8, 2021**

(54) **PALM HANDLE FOR SURGICAL TOOLS**

(71) Applicant: **ECA Medical Instruments, Inc.**,
Newbury Park, CA (US)

(72) Inventors: **Michael J. Milella, Jr.**, Thousand
Oaks, CA (US); **Sarah Elizabeth**
Schaake, Centennial, CO (US)

(73) Assignee: **ECA Medical Instruments, Inc.**,
Newbury Park, CA (US)

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

(21) Appl. No.: **29/713,221**

(22) Filed: **Nov. 14, 2019**

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

(52) **U.S. Cl.**
USPC **D24/133**

(58) **Field of Classification Search**
USPC D24/108, 112, 113, 114, 115, 116, 117,
D24/127, 133, 134, 136, 137, 138, 143,
D24/145, 200, 144, 147; D8/14, 16, 19,
D8/21, 82, 83, 84, 85, 86, 107, 34, 300,
D8/303, 314, 372, 374, 394, 77, 17, 22,
D8/23, 24, 25, 26, 27, 28, 29, 52, 55, 81,
D8/87, 102, 103, 104, 105, 106, 98, 99,
D8/93, 94

CPC A61M 25/0136; A61B 17/00; A61B 17/62;
A61B 17/64; A61B 17/645; A47J 43/26;
B25B 13/463; B25B 13/468; B25B 15/04;
B25G 1/005; B25G 1/085

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D278,593 S * 4/1985 MacGregor A61M 3/0279
D8/107
- D360,344 S * 7/1995 Eggert D8/83
- D363,868 S * 11/1995 Israel D8/83

- D375,669 S * 11/1996 Shiao D8/107
- D383,660 S * 9/1997 Anderson D8/107
- D384,263 S * 9/1997 Lin D8/107
- D386,063 S * 11/1997 Badiali D8/107
- D387,964 S * 12/1997 Urvoy D8/107
- D393,318 S * 4/1998 Wolter D24/133
- D398,507 S * 9/1998 Thompson D8/107
- D398,508 S * 9/1998 Thompson D8/107
- D398,828 S * 9/1998 Shiao D8/107
- D399,722 S * 10/1998 Eidsmoe D8/107

(Continued)

OTHER PUBLICATIONS

Palm Handle, [site visited Jan. 28, 2021], Available from Internet.
URL: <https://www.gauthierbiomedical.com/products/spinal-instruments/rod-pushers/palm-handle> (Year: 2021).*

(Continued)

Primary Examiner — T Chase Nelson
Assistant Examiner — Kelly L Gross
(74) *Attorney, Agent, or Firm* — Ferguson Case Orr
Paterson

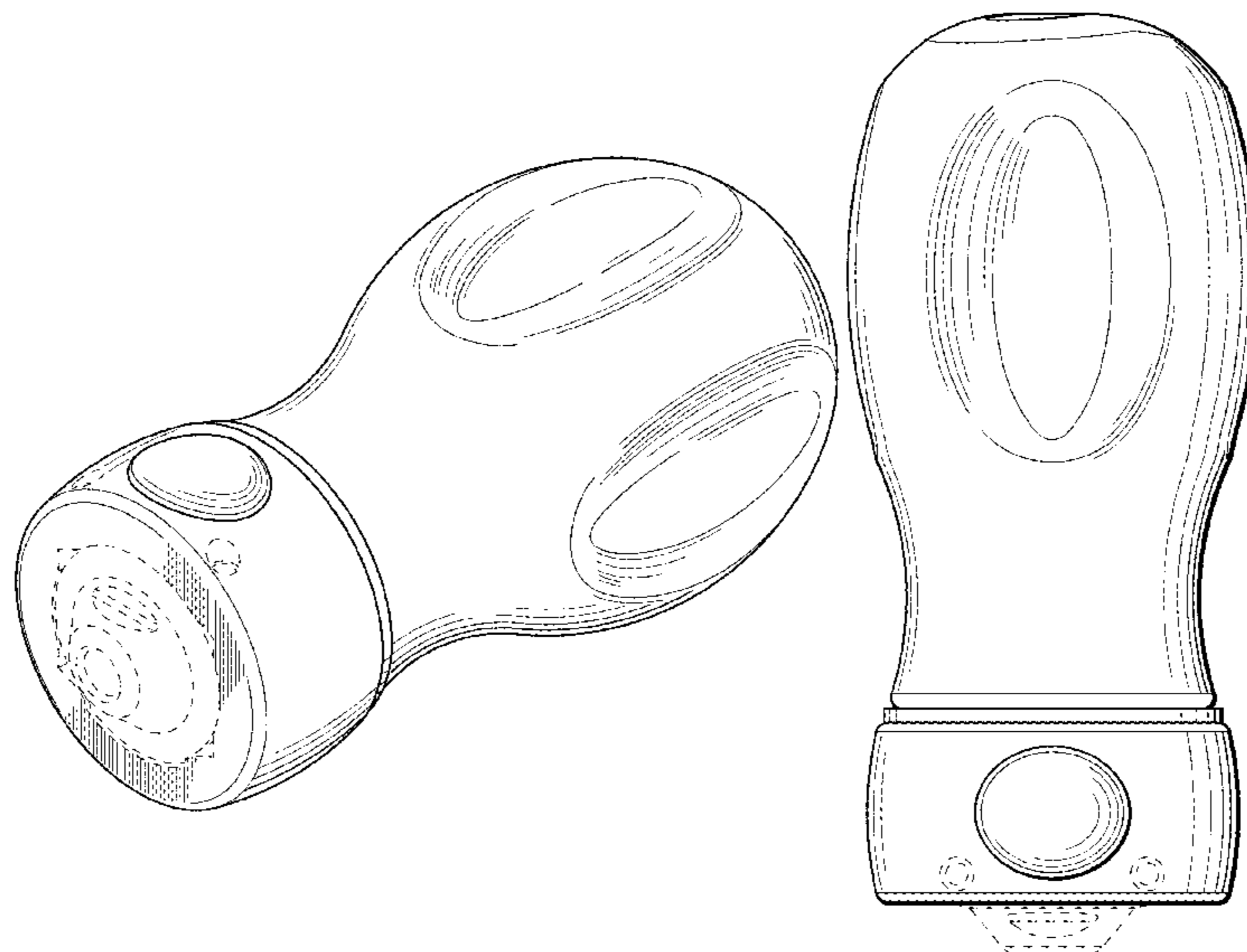
(57) **CLAIM**

The ornamental design for a palm handle for surgical tools,
as shown and described.

DESCRIPTION

FIG. 1 is a top, front, right-side perspective view of a palm
handle for surgical tools showing the new design.
FIG. 2 is a front elevation view thereof.
FIG. 3 is a rear elevation view thereof.
FIG. 4 is a left side elevation view thereof.
FIG. 5 is a right side elevation view thereof.
FIG. 6 is a top plan view thereof; and,
FIG. 7 is a bottom plan view thereof.
The broken lines in the drawings are included to show
portions of the article that form no part of the claimed
design.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

- D401,491 S * 11/1998 Shiao D8/83
D403,766 S * 1/1999 Miller-Roach D24/115
D408,258 S * 4/1999 Tsai D8/107
D414,096 S * 9/1999 Chapin D8/107
D415,005 S * 10/1999 Chen D8/107
D418,035 S * 12/1999 Hatch D8/107
D422,474 S * 4/2000 Shiao D8/107
D422,481 S * 4/2000 Bertani D8/310
D422,727 S * 4/2000 McCalla D26/38
D434,149 S * 11/2000 Mirhashemi D24/133
D434,630 S * 12/2000 Oliver D8/70
D442,049 S * 5/2001 Shu D8/107
D442,843 S * 5/2001 Hsu D8/107
D444,370 S * 7/2001 Chang D8/107
D445,658 S * 7/2001 Dierolf D8/107
D448,641 S * 10/2001 Sato D8/82
D452,423 S * 12/2001 Shimansky D8/107
D452,426 S * 12/2001 Milan D8/107
D452,427 S * 12/2001 Milan D8/107
D454,046 S * 3/2002 Hsieh D8/107
D454,770 S * 3/2002 Chang A61F 2/966
D8/107
D456,686 S * 5/2002 Holland-Letz A61M 37/0076
D8/83
D463,243 S * 9/2002 Lisle B25G 1/005
D8/107
D465,986 S * 11/2002 Tsai A61M 37/0076
D8/107
D468,182 S * 1/2003 Thompson D8/107
D468,183 S * 1/2003 Hu B25G 1/005
D8/83
6,562,018 B1 * 5/2003 Russell A63B 23/20
604/105
D475,268 S * 6/2003 Lisle D8/107
D482,590 S * 11/2003 Lisle D8/107
D486,364 S * 2/2004 Shaltiel D8/14
D487,690 S * 3/2004 Hu D8/83
D489,589 S * 5/2004 Wiljanen D8/21
D490,893 S * 6/2004 Bogazzi D24/133
D490,894 S * 6/2004 Bogazzi D24/133
D490,895 S * 6/2004 Bogazzi D24/133
D490,896 S * 6/2004 Bogazzi D24/133
D493,527 S * 7/2004 Szabo D24/133
D494,038 S * 8/2004 Shih D8/107
D494,443 S * 8/2004 Saunders D8/107
D494,829 S * 8/2004 Lin D8/83
D497,668 S * 10/2004 Bogazzi D24/133
D510,247 S * 10/2005 White D8/107
D510,248 S * 10/2005 Liu D8/83
D510,692 S * 10/2005 Walker D8/83
D513,378 S * 1/2006 Lin D8/83
D515,388 S * 2/2006 Howard D8/82
D517,388 S * 3/2006 Hsieh D8/107
D517,889 S * 3/2006 Hsieh A63B 23/20
D8/107
D519,352 S * 4/2006 Chou D32/48
D520,325 S * 5/2006 Su A63B 23/20
D8/83
D523,234 S * 6/2006 DeBoer D8/87
D523,315 S * 6/2006 Kienzler D8/107
D523,724 S * 6/2006 Rinner D8/107
D531,006 S * 10/2006 Tsai D8/107
D531,310 S * 10/2006 Wolter D24/133
D531,472 S * 11/2006 Schiller A61M 1/0058
D8/61
D531,480 S * 11/2006 Tsai D8/107
D532,276 S * 11/2006 Lin A61M 1/0058
D8/107
D532,277 S * 11/2006 Shih D8/107
D532,278 S * 11/2006 Shih A61N 7/00
D8/107
D532,517 S * 11/2006 Wilkinson D24/146
D533,428 S * 12/2006 Tsai D8/107
D535,170 S * 1/2007 Caplan D8/82
D535,540 S * 1/2007 Caplan D8/82
D538,934 S * 3/2007 Wilkinson D24/146
D539,621 S * 4/2007 Jimenez D8/10
D542,620 S * 5/2007 Thompson D8/107
D547,869 S * 7/2007 Eckman D24/147
D552,956 S * 10/2007 Wen D8/107
D553,464 S * 10/2007 Rinner D8/83
D554,967 S * 11/2007 Lin D8/107
D560,806 S * 1/2008 Eckman D24/147
D563,752 S * 3/2008 Fach D8/107
D565,379 S * 4/2008 Williams D8/83
D567,621 S * 4/2008 Singh D8/83
D569,210 S * 5/2008 Chien D8/83
D569,517 S * 5/2008 Wilkinson D24/146
D569,975 S * 5/2008 Wilkinson D24/146
D572,105 S * 7/2008 Brockman D8/83
D585,987 S * 2/2009 Aparici D24/133
D587,804 S * 3/2009 Ruiz D16/202
D594,308 S * 6/2009 Davies D8/98
D596,473 S * 7/2009 McKenzie D8/85
D603,683 S * 11/2009 Hu D8/107
D607,300 S * 1/2010 Lin D8/107
D617,163 S * 6/2010 Miller D8/24
D622,124 S * 8/2010 Kegg D8/83
D622,564 S * 8/2010 Huang D8/25
D622,565 S * 8/2010 Huang D8/25
D622,766 S * 8/2010 DaBoll D19/179
D623,738 S * 9/2010 Van der Stappen D24/130
D627,458 S * 11/2010 Bisson D24/115
D627,461 S * 11/2010 Cantu D24/140
D634,172 S * 3/2011 Robinson D8/83
RE42,278 E * 4/2011 Kienzler D8/82
D635,430 S * 4/2011 Robinson D8/83
D640,120 S * 6/2011 Zorovich D8/107
D642,887 S * 8/2011 Good D8/83
D643,116 S * 8/2011 Harrington D24/135
D643,532 S * 8/2011 Harrington D24/135
D643,533 S * 8/2011 Harrington D24/135
D644,902 S * 9/2011 Yang D8/83
D644,910 S * 9/2011 Hsu D8/107
D645,717 S * 9/2011 Ou D8/83
D646,386 S * 10/2011 Miller D24/133
D646,544 S * 10/2011 Molina D8/83
D646,545 S * 10/2011 Molina D8/83
D647,613 S * 10/2011 Paget D24/133
8,032,991 B2 * 10/2011 Lawless B25G 1/105
16/430
8,051,538 B2 * 11/2011 Hsieh B25G 1/105
16/436
D652,137 S * 1/2012 Nino D24/133
D652,138 S * 1/2012 Nino D24/133
D653,515 S * 2/2012 De Salvo D8/83
D655,002 S * 2/2012 Bast D24/133
D655,412 S * 3/2012 Luk D24/130
D655,413 S * 3/2012 Nino D24/133
D655,815 S * 3/2012 Miller D24/133
D657,214 S * 4/2012 Chen D8/25
D660,421 S * 5/2012 Miller D24/133
D668,338 S * 10/2012 Bast D24/145
D668,925 S * 10/2012 Robinson D8/83
D668,926 S * 10/2012 Robinson D8/83
D671,813 S * 12/2012 Lin D8/83
D675,318 S * 1/2013 Luk D24/130
D680,647 S * 4/2013 Carter B25G 1/105
D24/146
D684,836 S * 6/2013 Wong D8/82
D685,621 S * 7/2013 Lin D8/83
D686,479 S * 7/2013 Robinson B25G 1/105
D8/83
D686,480 S * 7/2013 Robinson B25G 1/105
D8/83
D686,899 S * 7/2013 Lin D8/83
D691,014 S * 10/2013 Hyma D8/83
D691,015 S * 10/2013 Hyma B25G 1/105
D8/83
D691,016 S * 10/2013 Hyma D8/83
D695,398 S * 12/2013 Solomon D24/129
D700,329 S * 2/2014 Lim D24/152

(56)

References Cited

U.S. PATENT DOCUMENTS

D707,527 S * 6/2014 Hsieh B25G 1/005
D8/107
D715,125 S * 10/2014 Hung D8/107
D717,142 S * 11/2014 Jannitto, Jr. D8/21
D717,143 S * 11/2014 Jannitto D8/21
D720,590 S * 1/2015 Carl D8/85
D720,591 S * 1/2015 Carl D8/85
D723,685 S * 3/2015 Myers A61M 37/0076
D24/144
D727,129 S * 4/2015 Robinson D8/83
D727,130 S * 4/2015 Robinson D8/83
D729,510 S * 5/2015 Headley D3/12
D733,301 S * 6/2015 Mueller D24/147
D734,021 S * 7/2015 Kerr D3/12
D735,855 S * 8/2015 Kimball D24/144
D737,444 S * 8/2015 Mueller D24/147
9,108,304 B2 * 8/2015 Lai B25B 13/468
D739,018 S * 9/2015 Murias D24/147
D741,992 S * 10/2015 Roeper A61F 2/966
D24/108
D742,005 S * 10/2015 Komuda D24/146
D743,233 S * 11/2015 Cluthe D8/85
D744,101 S * 11/2015 Kiefer D24/152
D744,311 S * 12/2015 Gallagher D8/307
D746,995 S * 1/2016 Matsumura D24/187
D750,236 S * 2/2016 Maurice D24/129
D753,296 S * 4/2016 Gill D24/138
D753,303 S * 4/2016 Dannaher D24/146
D767,358 S * 9/2016 Harrison D8/83
D767,359 S * 9/2016 Harrison D8/83
D769,689 S * 10/2016 Squiers D8/83
9,457,457 B2 * 10/2016 Chiang B25B 13/465
D771,247 S * 11/2016 Shinohara D24/130
9,511,484 B2 * 12/2016 Marchant B25B 15/04
D775,924 S * 1/2017 Lin D8/83
D775,925 S * 1/2017 Lin D8/83
D777,317 S * 1/2017 Soual D24/112
D779,054 S * 2/2017 Mehta D24/115
D779,055 S * 2/2017 Mehta D24/115
D779,058 S * 2/2017 Nino D24/133
D779,071 S * 2/2017 Warner, III D24/164
D781,415 S * 3/2017 Brannon D24/112
D782,657 S * 3/2017 Williams D24/111
D782,660 S * 3/2017 Tsujimoto D24/122
D782,667 S * 3/2017 Fuhr D24/137
D782,668 S * 3/2017 Fuhr D24/137
D782,669 S * 3/2017 Fuhr D24/137
D783,819 S * 4/2017 Thome D24/152
D787,613 S * 5/2017 Wight D21/662
D789,761 S * 6/2017 Moss D8/86
D791,310 S * 7/2017 Maurice D24/129
D791,941 S * 7/2017 Burachynsky D24/133
D791,978 S * 7/2017 Markus D25/133
D797,527 S * 9/2017 Frasca D7/683
D797,923 S * 9/2017 Pereira D24/112
D800,528 S * 10/2017 Leibowitz D8/83
D800,529 S * 10/2017 Leibowitz D8/83
9,796,070 B2 * 10/2017 Sun B25G 1/063

D803,398 S * 11/2017 Israni D24/146
D806,492 S * 1/2018 Willhite D8/40
D808,009 S * 1/2018 Brannon D24/112
D814,035 S * 3/2018 Fuchs D24/147
D814,036 S * 3/2018 Fuchs D24/147
D816,211 S * 4/2018 Guala D24/110.6
D818,124 S * 5/2018 Kiefer D24/152
D819,417 S * 6/2018 Graykowski D8/47
D820,441 S * 6/2018 Ketelhohn A61M 1/0058
D24/127
D829,524 S * 10/2018 Su D8/83
D830,151 S * 10/2018 Weinberg D8/107
D830,312 S * 10/2018 Nguyen D13/154
D830,313 S * 10/2018 Nguyen D13/154
D831,200 S * 10/2018 Bergeson D24/129
10,183,383 B2 * 1/2019 Lai B25B 23/0007
D840,207 S * 2/2019 Sun D8/107
D840,358 S * 2/2019 Zhao D13/168
D843,596 S * 3/2019 Bonutti A61N 7/00
D24/231
D845,102 S * 4/2019 Hofer D8/85
D849,499 S * 5/2019 Rognlien D8/105
D855,433 S * 8/2019 Hyma D8/83
D858,231 S * 9/2019 Larsson B25B 13/465
D8/21
D858,244 S * 9/2019 Hyma B25B 23/0007
D8/83
D859,139 S * 9/2019 Hill B25B 15/04
D8/394
D859,652 S * 9/2019 Teufel D24/133
D860,315 S * 9/2019 Chen D19/180
D860,750 S * 9/2019 Beh D8/83
D861,260 S * 9/2019 Cunniff B25G 1/063
D30/199
D865,965 S * 11/2019 Siciliano D24/146
D867,845 S * 11/2019 Hsu B25B 13/468
D8/83
D877,898 S * 3/2020 Tiedeken B25B 13/465
D24/127
D878,577 S * 3/2020 Bergeson B25B 15/04
D24/129
D883,480 S * 5/2020 Leibowitz B25B 13/468
D24/133
D890,592 S * 7/2020 Barajas D8/107
D891,899 S * 8/2020 Barajas D8/107
D893,024 S * 8/2020 Whiteside D24/129
D897,181 S * 9/2020 Johnson D8/83
D898,191 S * 10/2020 Nicholas D24/130
D900,584 S * 11/2020 Bast D8/107
D900,585 S * 11/2020 Bast D8/107
D901,006 S * 11/2020 Bergeson D24/129
D901,685 S * 11/2020 Wang D24/144
D903,862 S * 12/2020 Zhang A61M 3/0279
D24/119

OTHER PUBLICATIONS

Palm Handle, [site visited Jan. 28, 2021], Available from Internet.
URL: https://www.fuji-flex.co.jp/english/tool_img14.html (Year: 2021).*

* cited by examiner

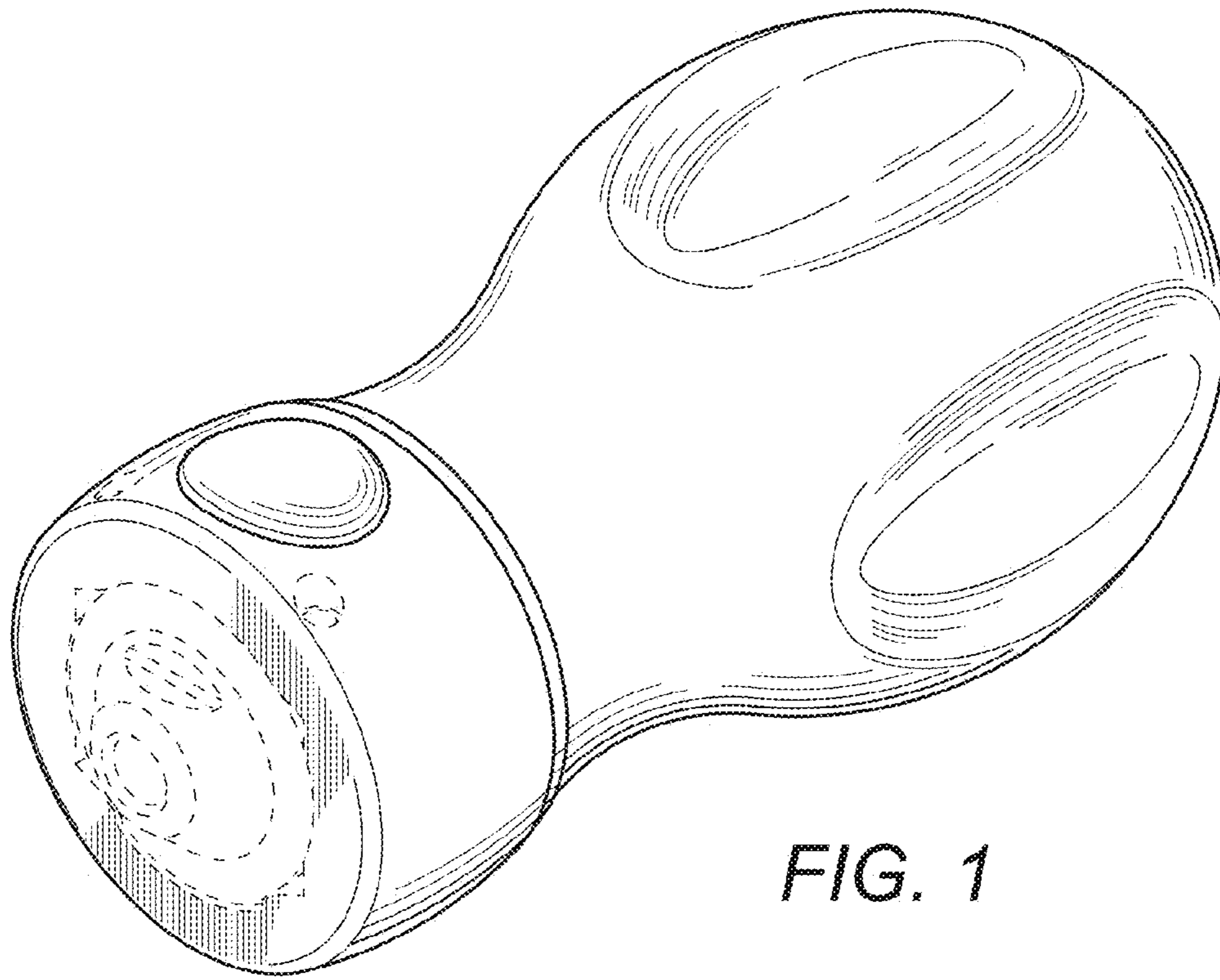


FIG. 1

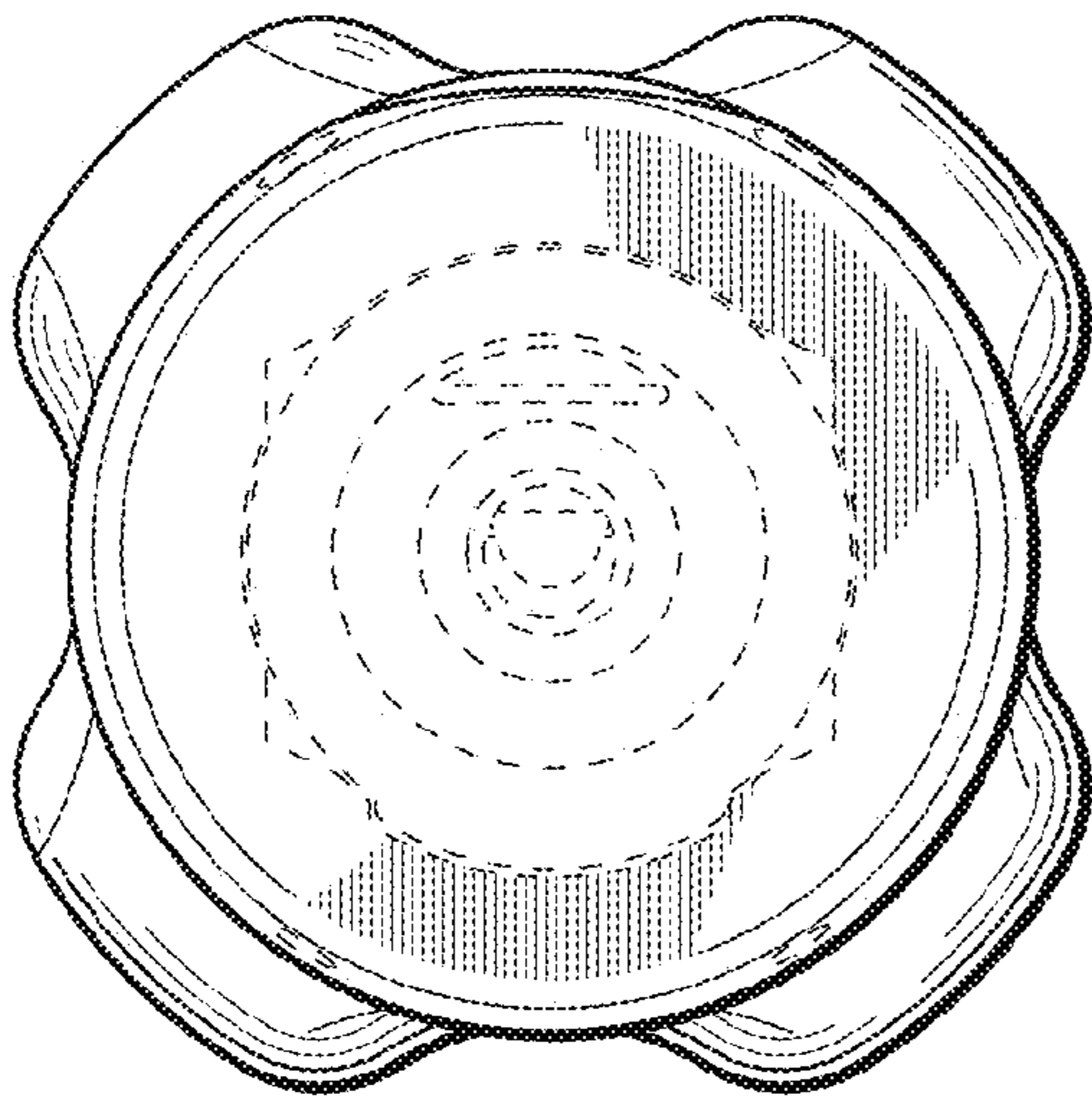


FIG. 2

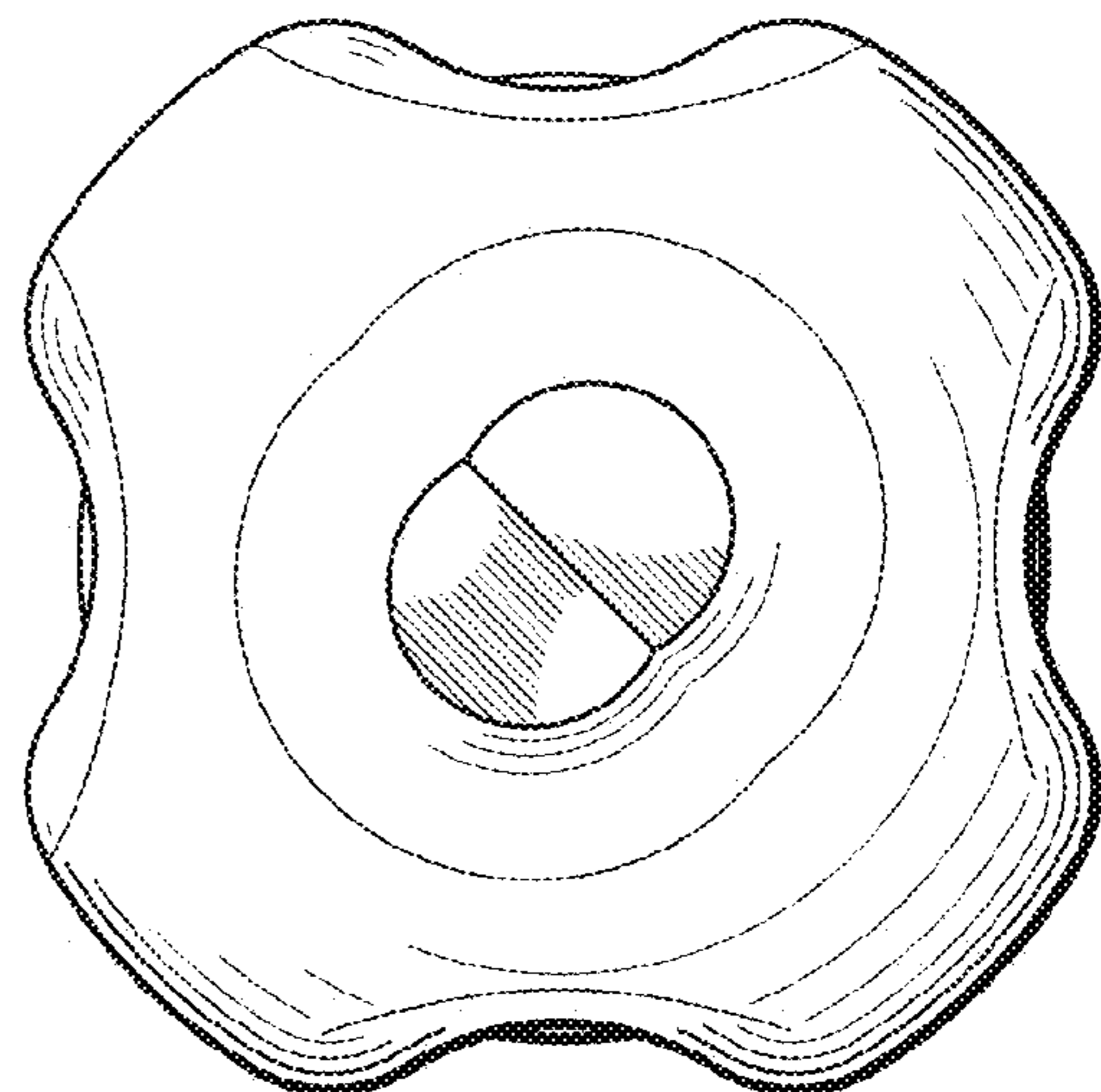


FIG. 3

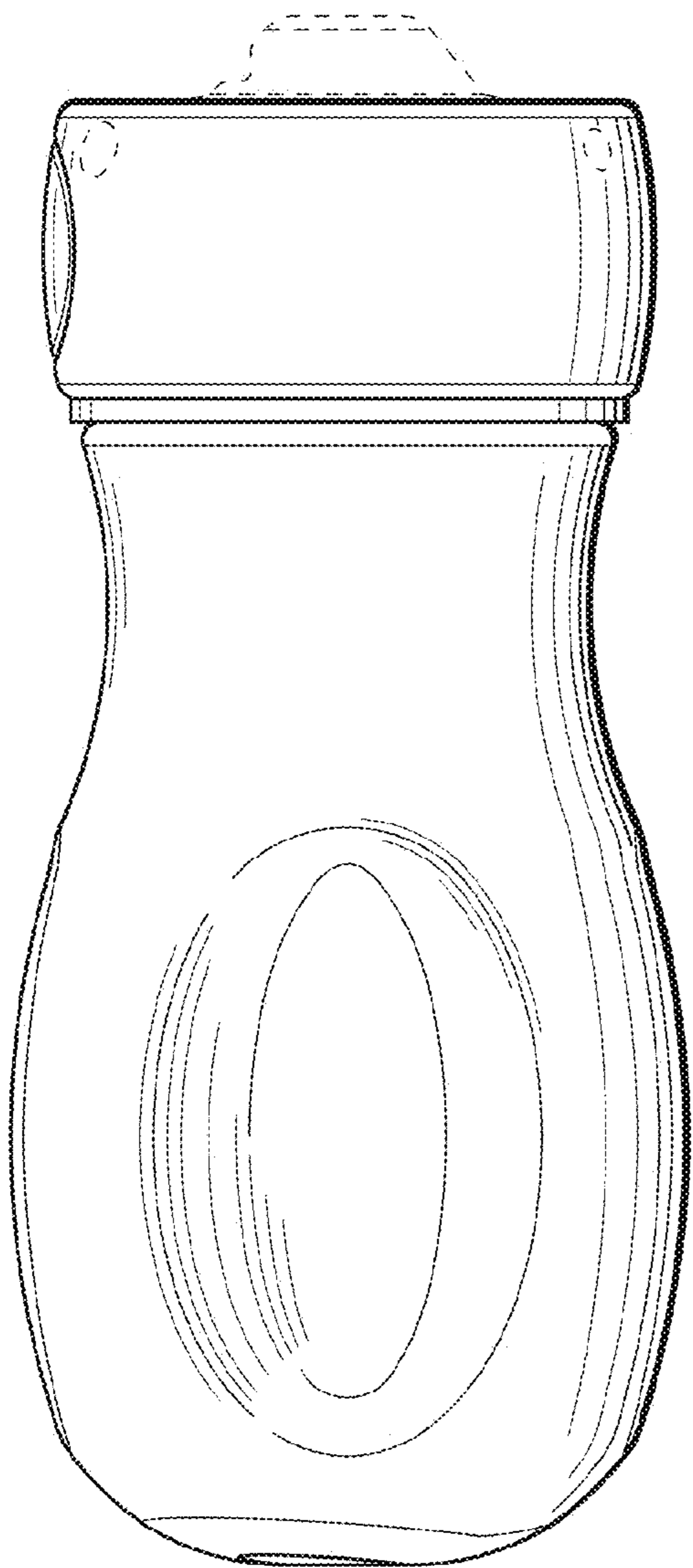


FIG. 4

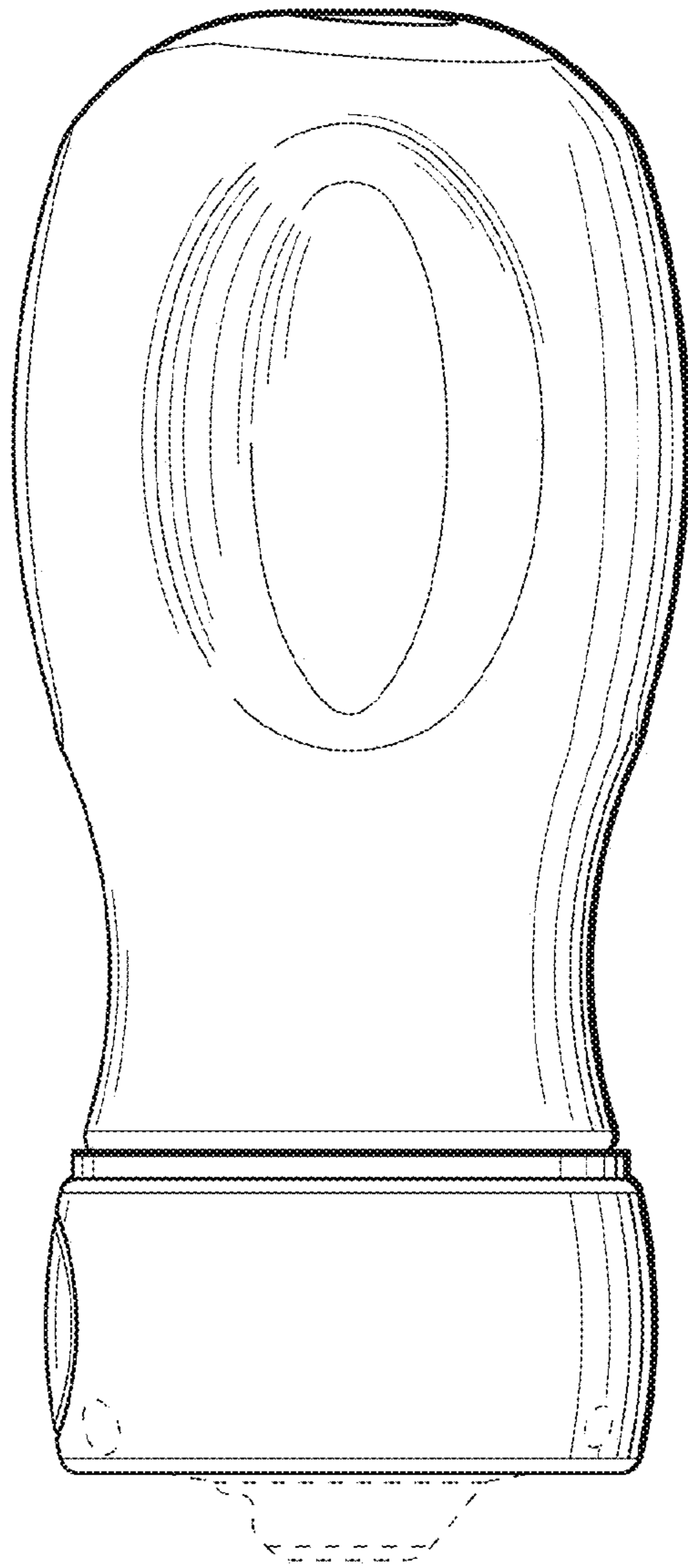


FIG. 5

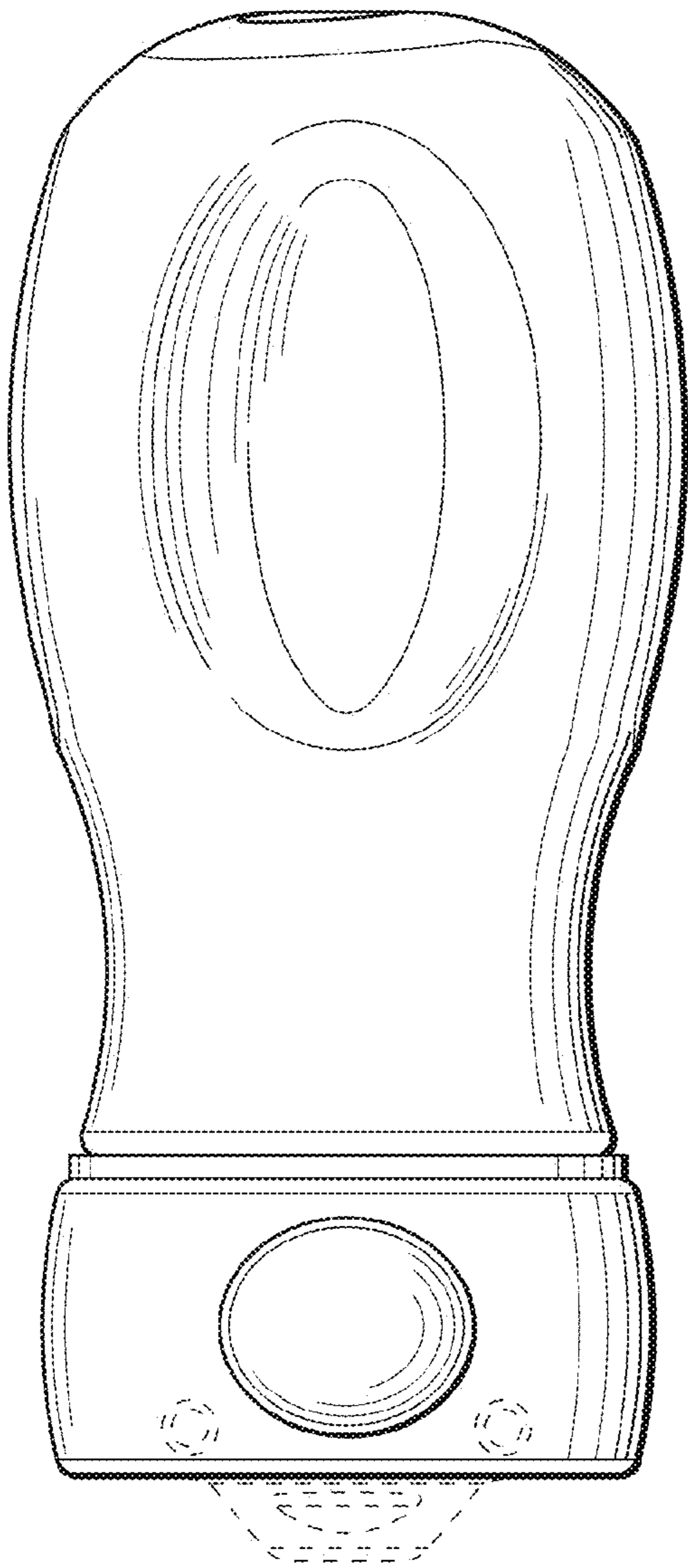


FIG. 6

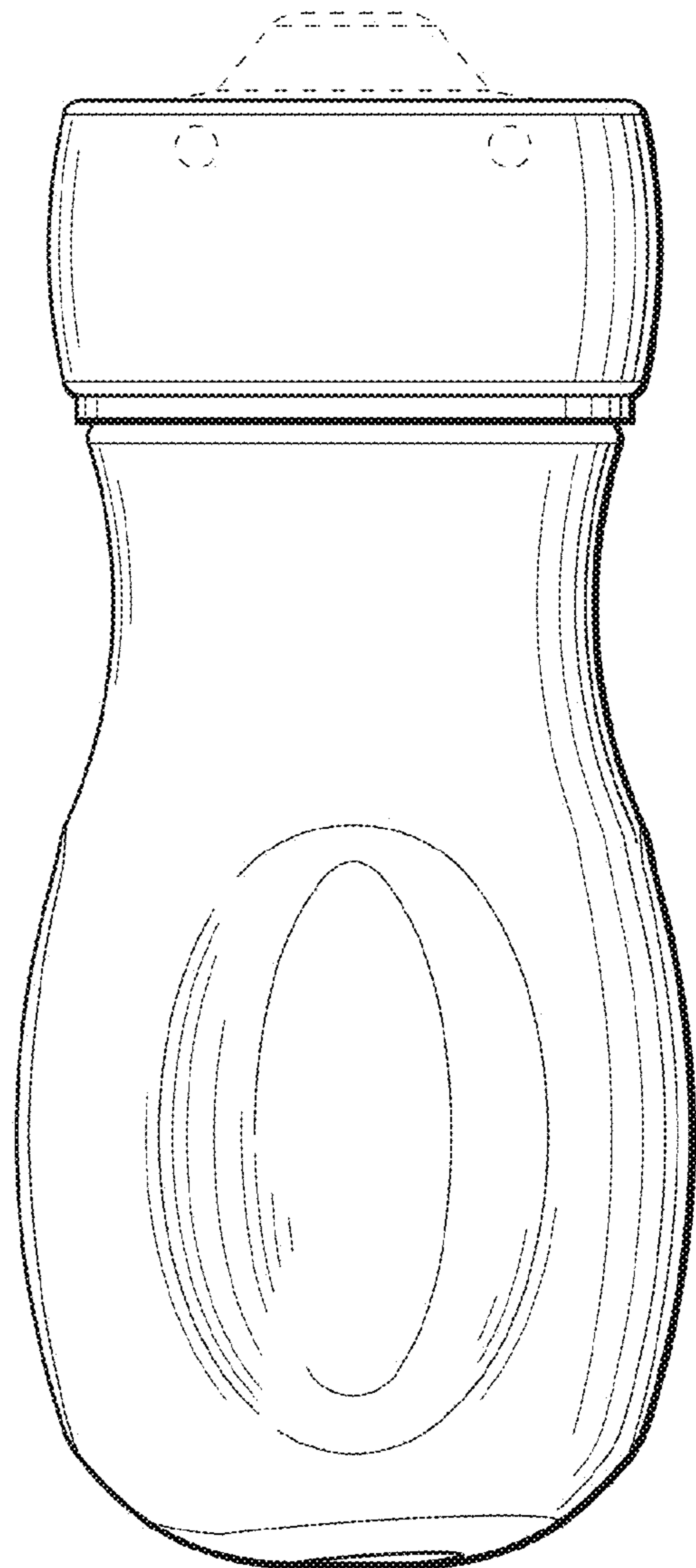


FIG. 7