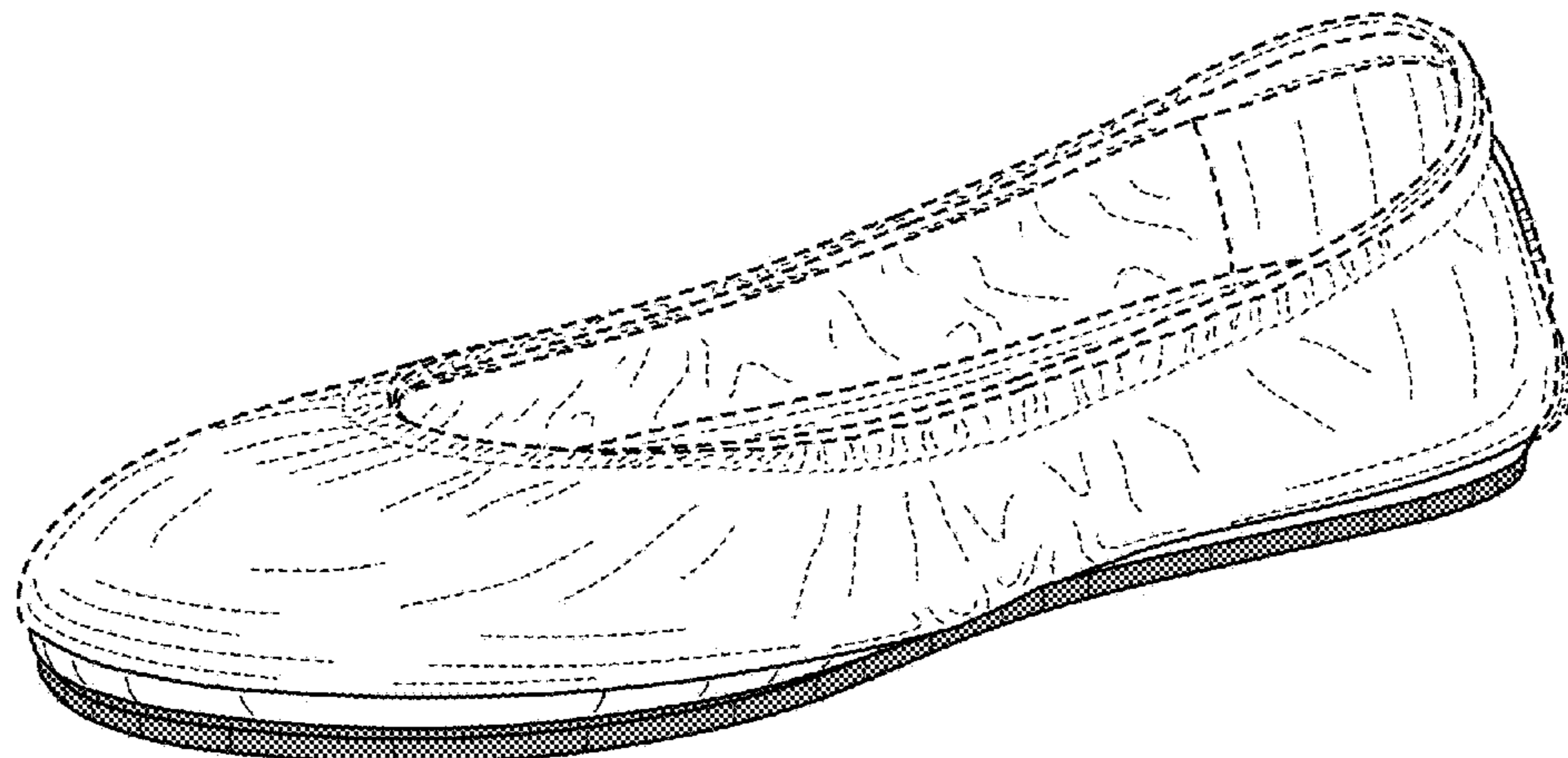




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(12) **United States Design Patent** (10) **Patent No.:** **US D825,160 S**
Gavrieli et al. (45) **Date of Patent:** **** *Aug. 14, 2018**

- (54) **BLUE SOLE AND MIDSOLE ASSEMBLY FOR SINGLE-SOLE SHOE** 1,214,666 A 2/1917 Ford
1,519,009 A 12/1924 Reina
1,525,848 A * 2/1925 Bonaventure A43B 5/12
36/113
- (71) Applicant: **Gavrieli Brands, LLC**, Beverly Hills, CA (US) 1,587,377 A 6/1926 Grosjean
1,650,466 A 11/1927 Righter
2,224,590 A 12/1940 Boivin
- (72) Inventors: **Kfir Gavrieli**, Los Angeles, CA (US); 2,268,777 A 1/1942 Scholl
Dikla Gavrieli, Los Angeles, CA (US) D133,819 S 9/1942 Harris
D135,791 S 6/1943 Beebe
- (73) Assignee: **Gavrieli Brands LLC**, Beverly Hills, CA (US) 2,323,563 A 7/1943 Nugent
2,342,882 A 2/1944 Meltzer
D141,871 S 7/1945 Braun
2,383,585 A 8/1945 Bindner
D149,685 S 5/1948 Sandler
D150,729 S 8/1948 Sandler
D166,090 S 3/1952 Maling
2,772,488 A 12/1956 Meltzer
2,904,814 A 9/1959 Scholl
3,148,378 A 9/1964 Tibbitts
D200,897 S 4/1965 Mitchell
D220,494 S 4/1971 Hayoshi
- (*) Notice: This patent is subject to a terminal disclaimer. D247,396 S * 3/1978 Schlerth D2/939
4,412,393 A 11/1983 Terlizzi, Jr. et al.
D275,525 S 9/1984 Nakao
4,674,206 A 6/1987 Lyden
D295,692 S * 5/1988 Zuidema D2/950
D300,085 S 3/1989 Ito et al.
RE33,018 E 8/1989 Ostrander
- (**) Term: **15 Years** 4,899,412 A 2/1990 Ganon
D316,773 S 5/1991 Valle
5,012,541 A 5/1991 Ganon
D339,669 S * 9/1993 Miller D2/919
5,282,326 A 2/1994 Schroer, Jr. et al.
5,421,050 A 6/1995 Laganas
5,699,629 A 12/1997 Munschy
5,746,014 A 5/1998 Tanemoto
D420,785 S 2/2000 Perez
6,055,745 A 5/2000 Endoh
6,076,284 A 6/2000 Terlizzi
6,189,239 B1 2/2001 Gasparovic et al.
6,338,207 B1 1/2002 Chang
D457,292 S * 5/2002 Sessa D2/949
D461,947 S 8/2002 Merceron
6,588,124 B2 6/2003 Morrone
D476,798 S 7/2003 Reynolds et al.
D498,041 S 11/2004 McClaskie
D500,191 S * 12/2004 Belley D2/969
D501,706 S 2/2005 McClaskie
6,857,203 B2 2/2005 Minden
6,895,693 B2 5/2005 Baruck
6,978,557 B2 12/2005 Lee
7,032,327 B1 4/2006 Tartaglia et al.
- (21) Appl. No.: **29/570,799**
- (22) Filed: **Jul. 12, 2016**
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- (63) Continuation of application No. 29/493,446, filed on Jun. 10, 2014, now abandoned.
- (51) **LOC (11) Cl.** **02-99**
- (52) **U.S. Cl.**
USPC **D2/950**
- (58) **Field of Classification Search**
USPC D2/896, 900, 919-921, 925, 939, 947,
D2/950, 969, 971; 36/1, 83, 8.1-8.3, 9 R,
36/45-58, 104, 108, 76 R
CPC A43B 21/00; A43B 21/02; A43B 21/06;
A43B 9/14; A43B 1/0045; A43B 13/10;
A43B 13/12; A43B 23/06; A43B 23/07;
A43B 1/0036; A43B 5/12
See application file for complete search history.
- (56) **References Cited**
U.S. PATENT DOCUMENTS
249,086 A 11/1881 Pienovi
773,850 A 11/1904 Cooper et al.
830,941 A 9/1906 Walden
1,208,209 A 12/1916 Prince



| | | | | |
|--------------|-----|---------|-------------------|--------|
| 7,036,244 | B1 | 5/2006 | Finch | |
| D527,513 | S | 9/2006 | Della Valle | |
| D529,513 | S * | 10/2006 | Aketa | D15/5 |
| D531,790 | S | 11/2006 | Wurzburg | |
| D534,341 | S * | 1/2007 | Choi | D2/896 |
| D542,513 | S | 5/2007 | Amado et al. | |
| D556,990 | S | 12/2007 | Cabados | |
| 7,337,558 | B2 | 3/2008 | Terlizzi et al. | |
| D567,485 | S | 4/2008 | James | |
| D570,488 | S | 6/2008 | Kirksey et al. | |
| D571,084 | S | 6/2008 | Comeau | |
| D571,548 | S | 6/2008 | Seamans | |
| D571,989 | S | 7/2008 | Siegal | |
| D580,640 | S | 11/2008 | Wurzburg | |
| D582,638 | S | 12/2008 | Ringholz | |
| 7,496,982 | B2 | 3/2009 | Clark et al. | |
| 7,506,459 | B2 | 3/2009 | Grisoni et al. | |
| D591,031 | S | 4/2009 | Cofinco | |
| D593,295 | S * | 6/2009 | Belley | D2/969 |
| D593,297 | S * | 6/2009 | Belley | D2/969 |
| D593,307 | S * | 6/2009 | Belley | D2/969 |
| D599,093 | S * | 9/2009 | Issler | D2/925 |
| D604,030 | S | 11/2009 | Wilson | |
| D607,194 | S | 1/2010 | Zagula | |
| D610,332 | S | 2/2010 | Raichle | |
| D610,785 | S | 3/2010 | Smith | |
| D612,140 | S | 3/2010 | Moon | |
| D612,141 | S | 3/2010 | Moon | |
| 7,694,435 | B1 | 4/2010 | Kiser et al. | |
| D615,737 | S | 5/2010 | Feller | |
| 7,735,244 | B1 | 6/2010 | Ameche | |
| 7,743,530 | B2 | 6/2010 | Truelsen | |
| D618,891 | S | 7/2010 | McClaskie | |
| 7,757,408 | B2 | 7/2010 | McClaskie | |
| D630,829 | S | 1/2011 | Weisner | |
| D632,881 | S | 2/2011 | Rosenberg | |
| 7,926,203 | B2 | 4/2011 | Wilkenfeld | |
| 7,966,747 | B2 | 6/2011 | Wilkenfeld et al. | |
| D640,861 | S | 7/2011 | Wilkenfeld | |
| 8,020,320 | B2 | 9/2011 | Gillespie | |
| 8,127,468 | B2 | 3/2012 | Morgan | |
| D657,543 | S | 4/2012 | Bove | |
| D659,960 | S | 5/2012 | Bizzo | |
| 8,230,619 | B2 | 7/2012 | Salvatelli | |
| D664,755 | S | 8/2012 | Gavrieli et al. | |
| D665,157 | S | 8/2012 | Wu | |
| 8,240,067 | B2 | 8/2012 | Sussmann | |
| 8,245,420 | B2 | 8/2012 | Wilson | |
| D668,027 | S | 10/2012 | Millieret | |
| D668,438 | S | 10/2012 | Millieret | |
| D668,847 | S * | 10/2012 | Gavrieli | D2/925 |
| D668,848 | S * | 10/2012 | Gavrieli | D2/925 |
| D668,849 | S | 10/2012 | Pozzi | |
| D668,850 | S | 10/2012 | Pozzi | |
| D672,542 | S | 12/2012 | Gray et al. | |
| D676,634 | S * | 2/2013 | Gavrieli | D2/925 |
| D681,927 | S * | 5/2013 | Gavrieli | D2/925 |
| D681,928 | S * | 5/2013 | Gavrieli | D2/925 |
| D681,929 | S * | 5/2013 | Gavrieli | D2/925 |
| D683,936 | S * | 6/2013 | Gavrieli | D2/925 |
| 8,468,723 | B2 | 6/2013 | Malka-Harari | |
| D686,812 | S | 7/2013 | Gavrieli et al. | |
| 8,510,975 | B2 | 8/2013 | Krikelis | |
| D688,853 | S * | 9/2013 | Gavrieli | D2/925 |
| D688,854 | S * | 9/2013 | Gavrieli | D2/925 |
| D688,855 | S * | 9/2013 | Gavrieli | D2/925 |
| D689,270 | S * | 9/2013 | Gavrieli | D2/925 |
| D689,271 | S * | 9/2013 | Gavrieli | D2/925 |
| D689,272 | S * | 9/2013 | Gavrieli | D2/925 |
| D690,914 | S * | 10/2013 | Gavrieli | D2/925 |
| D690,915 | S * | 10/2013 | Gavrieli | D2/925 |
| D696,500 | S | 12/2013 | Hunt | |
| D699,424 | S | 2/2014 | Hamm | |
| 8,661,714 | B2 | 3/2014 | Sussman | |
| 8,745,893 | B2 | 6/2014 | Gavrieli et al. | |
| 8,973,287 | B2 | 3/2015 | Shibata | |
| 2002/0078591 | A1 | 6/2002 | Morrone | |
| 2002/0129519 | A1 | 9/2002 | Cahan | |
| 2003/0070319 | A1 | 4/2003 | Minden | |

| | | | |
|--------------|----|---------|------------------|
| 2003/0121176 | A1 | 7/2003 | Baruck |
| 2004/0025377 | A1 | 2/2004 | Brannon |
| 2005/0022421 | A1 | 2/2005 | Bruckner |
| 2005/0115115 | A1 | 6/2005 | Lacey |
| 2005/0217148 | A1 | 10/2005 | Connolly et al. |
| 2005/0262734 | A1 | 12/2005 | Cheng |
| 2006/0086005 | A1 | 4/2006 | Yerian |
| 2006/0156576 | A1 | 7/2006 | Sloan |
| 2007/0074424 | A1 | 4/2007 | Lin |
| 2007/0204482 | A1 | 9/2007 | Gibson-Collinson |
| 2007/0204483 | A1 | 9/2007 | Kirsch et al. |
| 2008/0052964 | A1 | 3/2008 | Taylor |
| 2008/0086912 | A1 | 4/2008 | Wilkenfeld |
| 2008/0110059 | A1 | 5/2008 | Kuramoto et al. |
| 2009/0019732 | A1 | 1/2009 | Sussmann |
| 2009/0193685 | A1 | 8/2009 | Wilson |
| 2009/0205222 | A1 | 8/2009 | Mclinden |
| 2009/0272009 | A1 | 11/2009 | Weisner et al. |
| 2010/0011625 | A1 | 1/2010 | Percival |
| 2010/0018080 | A1 | 1/2010 | Smith |
| 2010/0050469 | A1 | 3/2010 | Chen |
| 2010/0095557 | A1 | 4/2010 | Jarvis |
| 2010/0115793 | A1 | 5/2010 | Kraisosky |
| 2010/0122475 | A1 | 5/2010 | Purrington |
| 2010/0146822 | A1 | 6/2010 | MacGregor |
| 2010/0212186 | A1 | 8/2010 | Cheng |
| 2010/0275462 | A1 | 11/2010 | Pucci |
| 2010/0281713 | A1 | 11/2010 | Pantazes |
| 2015/0089843 | A1 | 4/2015 | Gavrieli |

FOREIGN PATENT DOCUMENTS

| | | | | | |
|----|----|------|-----------|----|---------|
| DE | 20 | 2006 | 000230 | U1 | 5/2007 |
| GB | | | 2443937 | A | 5/2008 |
| GB | | | 2 446 205 | A | 8/2008 |
| TW | | | D119165 | | 10/2007 |

OTHER PUBLICATIONS

Examination Report for AU 341324, 3 pgs., dated Oct. 24, 2012.
 Letter from TMI and Associates with Office Action, 2 pgs, dated Sep. 19, 2012 <http://www.payless.com/store/?&TLC=Womens&SLC=WomensNewArrivals&BLC=WomensNewArrivalsNewArrivals&With+Regular&ItemCode=60131&LotNumber=062642&Type=Adult&Popularity=637&Descriptvein>.
 Taiwanese Office Action for TW 101300726, 10 pgs., dated Sep. 6, 2012.
 “The Love List, Tieks by Gavrieli—Foldable Ballet Flats,” <http://thelovelist-carly.blogspot.com.au/2010/09/tieks-by-gavrieli-foldable-ballet.html>, 3 pgs., Sep. 12, 2010.
 “Tieks by Gavrieli,” <http://tieks.com> 1 pg., retrieved Mar. 13, 2013 from URL.
 “Try It Mummy!, Tieks by Gavrieli,” <http://tryitmummy.blogspot.com.au/2010/12/tieks-by-gavrieli.html>, 4 pgs., Dec. 9, 2010.
 “Wearability—Real People Style, What came first, the City Flat or the Tieks,” <http://wearability.posterous.com/what-came-first-the-city-flat-or-the-tieks>, 4 pgs., Aug. 29, 2010.
 “The Ballet Flat . . . Reinvented; Ballet Flats . . . with a Bonus; Step Into Tieks; Going Places? Take Tieks,” <http://web.archive.org/web/2010052004346/http://www.tieks.com/>; 4 pgs., May 24, 2010.
 “Tieks—Comfortable designer flats you can fit in your purse and wear all day, every day,” <http://web.archive.org/web/20110731151555/http://tieks.com/>; 6 pgs., Jul. 31, 2011.
 “58th Annual Emmy Awards,” http://spoonsforksandfashion.blogspot.com/2006_08_01_archive.html, depicting Nine West flats, 11 pgs., Aug. 1, 2006.
 Pictures of Nine West flats sold in 2006, 3 pgs.
 “I Love a Good Ballet Flat!,” <http://dressupfiles.com/i-love-a-good-ballet-flat>, depicting Sue London flats, 4 pgs., Sep. 3, 2010.
 Pictures of Sue London flats sold in 2010, 2 pgs.
 “Miss Cathie Reviews: The Yosi Samra Foldable Ballet Flat . . .,” <http://www.misscathie.com/2010/01/miss-cathie-reviews-the-yosi-samra-foldable-ballet-flat/>, depicting Yosi Samra flats, 7 pgs., Jan. 2010.

Pictures of Yosi Samra flats sold in 2010, 2 pgs.
 “Goodbye two thousand ten,” http://emmajoyrussell.blogspot.com/2010_12_01_archive.html, depicting Gap flats, 39 pgs., Dec. 1, 2010.
 Pictures of Gap flats available for sale in 2010, 9 pgs.
 “Our newest design of folding flats—Pink,” <https://fitinclouds.wordpress.com/2010/05/16/our-newest-design-of-folding-flats-pink/>, depicting Fit in Clouds flats, 1 pg., May 16, 2010.
 “Fit in Clouds Satin Folding Shoes,” <http://www.goodhousekeeping.com/product-reviews/clothing/best-ballet-flats/fit-in-clouds-satin-foldable-ballet-flats>, depicting Fit in Clouds flats, 1 pg., Aug. 2013.
 Pictures of Fit in Clouds flats available for sale in 2011, 4 pgs.
 “Shoes for Standing,” <https://truthinshoes.wordpress.com/2008/07/>, depicting Sam & Libby flats, 2 pgs., Jul. 31, 2008.
 “Target Designer Collaboration: Announcing Sam & Libby Shoes for Target,” <http://www.therecessionista.com/2012/11/target-designer-collaboration-announcing-sam-libby-shoes-for-target.html>, depicting Sam & Libby flats, 1 pg., Nov. 26, 2012.
 Pictures of Sam & Libby flats available for purchase in 2011, 5 pgs.
 “Save your soles with Citisoles ballet flats,” <http://glamazondiaries.com/2009/07/save-your-soles-with-citisoles-ballet-flats>, depicting Citisoles flats, 3 pgs., Jul. 2009.
 Pictures of Citisoles flats available for purchase in 2009, 3 pgs.
 “#16 Corso Como Delicious Pumps Review and Giveaway!,” <http://www.mommatoldmeblog.com/2011/01/16-corso-como-delicious-pumps-review.html>, depicting Corso Como flats, 8 pgs., Jan. 16, 2011.
 Pictures of Corso Como flats available for sale in 2011, 3 pgs.
 “jil-sander-navy-lead-ballet-flats-product . . . ,” www.ebay.com, depicting Jil Sander flats, 4 pgs., Nov. 2013.
 Pictures of Jil Sander flats available for sale in 2011, 3 pgs.
 “Spare Soles: Shoes That Roll-up & Fold-up,” <http://herpackinglist.com/2011/01/spare-soles-shoes/>, depicting Spare Soles flats, 2 pgs., Jan. 2011.
 Pictures of Spare Soles flats available for sale in 2011, 5 pgs.
 The Original Rollable, Foldable ballet flats with matching wristlet—Spare Soles, <http://herpackinglist.com/2011/01/spare-soles-shoes/>, depicting Roll-Upz Spare Soles flats, 2 pgs., Jan. 2011.
 Pictures of Roll-Upz by Spare Soles flats available for sale in 2011, 6 pgs.
 “The Cutest Blog, Preppy 50 and Loving Lilly, Ballet Flat Delight,” <http://preppy50andlovinglilly.blogspot.com/2011/02/ballet-flat-delight.html>, depicting Henri Bendel flats, 13 pgs., Feb. 19, 2011.
 Pictures of Henri Bendel flats available for sale in 2011, 4 pgs.
 “Mumsnet by parents for parents,” http://www.mumsnet.com/Talk/style_and_beauty/a1612000-Anyone-tried-Redfoot-Flatmates-foldable-ballet-pumps, depicting Redfoot Flatmates flats, 1 pg, Nov. 14, 2012.
 Pictures of Redfoot Flatmates flats available for sale in 2011, 6 pgs.
 “Amazon.com: Customer Reviews: Bloch London Women’s Lux Ballet Flat,” <http://www.amazon.com/Bloch-London-Womens-Ballet-Flat/product-reviews/B004LWP7YW>, depicting Bloch London flats, 4 pgs., Dec. 11, 2011.
 Pictures of Bloch London flats offered for sale in 2011, 11 pgs.
 “h&m foldable leopard print flat,” <http://845shops.wordpress.com/2011/06/16/flats-for-7-bucks/shoe1/>, depicting h&m flats, 3 pgs., Jun. 16, 2011.
 Pictures of h&m foldable flats offered for sale in 2011, 4 pgs.
 “Seekyt—Juicy Couture Ballet Flats—Are They Worth the Money?,” <http://seekyt.com/juicy-couture-ballet-flats-are-they-worth-the-money/>, 14 pgs., Jun. 3, 2011.
 Pictures of Juicy Couture flats offered for sale in 2011, 3 pgs.
 “Purse Flats,” <http://purseflats.wordpress.com>, depicting Purse Flats by Erica Wilson, 3 pgs., Jul. 12, 2012.
 Pictures of Purse Flats by Erica Wilson offered for sale in 2011, 6 pgs.
 “Splash Page,” <http://web.archive.org/web/20100524004346/http://www.tieks.com/>, 4 pgs., May 24, 2010.
 “Tieks—Comfortable, designer flats you can fit in your purse and wear all day, every day,” <http://web.archive.org/web/20110731151555/http://tieks.com>, 6 pgs., Jul. 31, 2011.

“Tieks by Gavrieli—Comfortable, designer flats you can fit in your purse and wear all day . . . ,” <http://web.archive.org/web/20110202210649/http://www.tieks.com/>, 8 pgs., Feb. 2, 2011.
 “Carolina M. M. Gonzalez > Tieks by Gavrieli,” http://m2.facebook.com/Tieks?v=timeline&filter=2&timecutoff=1406427986&page=17§ionLoadingID=m_timeline_loading_div_1293868799_1262332800_8_17&timeend=1293868799×tart=1262332800&tm=AQDOvqhWQPN_Nbwm&refid=17, 1 pg. Jan. 26, 2010.
 “The Shoes Oprah Would Wear to Work (if She Had to Walk),” <http://www.inc.com/30under30/christina-desmarais/kfir-gavrieli-and-elram-gavrieli-founders-of-tieks>, 8 pgs., Jul. 2, 2012.
 “Tieks by Gavrieli,” http://m2.facebook.com/Tieks?v=timeline&filter=2&timecutoff=1406427986&page=14§ionLoadingID=m_timeline_loading_div_1293868799_1262332800_8_14&timeend=1293868799×tart=1262332800&tm=AQDOvqhWQPN_Nbwm&refid=17, 4 pgs., Jan. 26, 2010.
 “Mighty Life List, Sensible Shoes,” <http://mightygirl.com/2010/08/24/sensible-shoes/>, 10 pgs., Aug. 24, 2010.
 “Find! Tieks: Fab & sexy flats for fall,” <http://thefabmom.com/2013/08/29/find-tieks-fab-sexy-flats-for-fall/>, 3 pgs. Aug. 29, 2013.
 “Step into Tieks,” <http://sliceofpink.typepad.com/blog/2010/09/tieks-1.html>, 5 pgs., Sep. 22, 2010.
 “In Need of Flat-Soled Shoes,” <http://sliceofpink.typepad.com/blog/2010/09/tieks-1.html>, 7 pgs., Oct. 3, 2010.
 “Say Hello to the Flat Shoes You Need for Fall . . . All 88 of Them!”, Picture of Adam Tucker Shoe/Slipper, <https://www.facebook.com/search/top/?q=adam%20shoes%20slipper>, last accessed Oct. 28, 2016, dated Oct. 1, 2013, 1 page.
 Picture of Adam Tucker Rainbow Shoes, <https://www.facebook.com/search/top/?q=adam%20shoes%20rainbow>, last accessed Oct. 28, 2016, dated Aug. 14, 2013, 1 page.

* cited by examiner

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 (74) *Attorney, Agent, or Firm* — Morgan, Lewis & Bockius LLP

(57)

CLAIM

The ornamental design for a blue sole and midsole assembly for single-sole shoe, as shown and described.

DESCRIPTION

The file of this patent contains at least one drawing executed in color. Copies of this patent with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

FIG. 1 is a perspective view of our new design for a blue sole and midsole assembly for single-sole shoe illustrated in conjunction with a disclaimed shoe upper;

FIG. 2 is a first side view thereof;

FIG. 3 is a second side view thereof;

FIG. 4 is a top view thereof;

FIG. 5 is a bottom view thereof;

FIG. 6 is a front view thereof;

FIG. 7 is a back view thereof;

FIG. 8 is a perspective view of another embodiment of our new design of a blue sole and midsole assembly for single-sole shoe illustrated in conjunction with a disclaimed shoe upper of FIG. 1, where the blue portions are indicated using the USPTO convention of horizontal lines for blue;

FIG. 9 is a first side view thereof;

FIG. 10 is a second side view thereof;

FIG. 11 is a top view thereof;

FIG. 12 is a bottom view thereof;

FIG. 13 is a front view thereof;

FIG. 14 is a back view thereof;

FIG. **15** is a perspective view of yet another embodiment of our new design of a blue sole and midsole assembly for single-sole shoe of FIG. **1**, illustrated in conjunction with a disclaimed shoe, where the blue portions are indicated using a cross-hatched pattern to indicate the blue color Pantone 7466C;

FIG. **16** is a first side view thereof;

FIG. **17** is a second side view thereof;

FIG. **18** is a top view thereof;

FIG. **19** is a bottom view thereof;

FIG. **20** is a front view thereof; and,

FIG. **21** is a back view thereof.

The broken lines showing elements in the above described Figures are for illustrative purposes only and form no part of the claimed design.

1 Claim, 18 Drawing Sheets
(5 of 18 Drawing Sheet(s) Filed in Color)

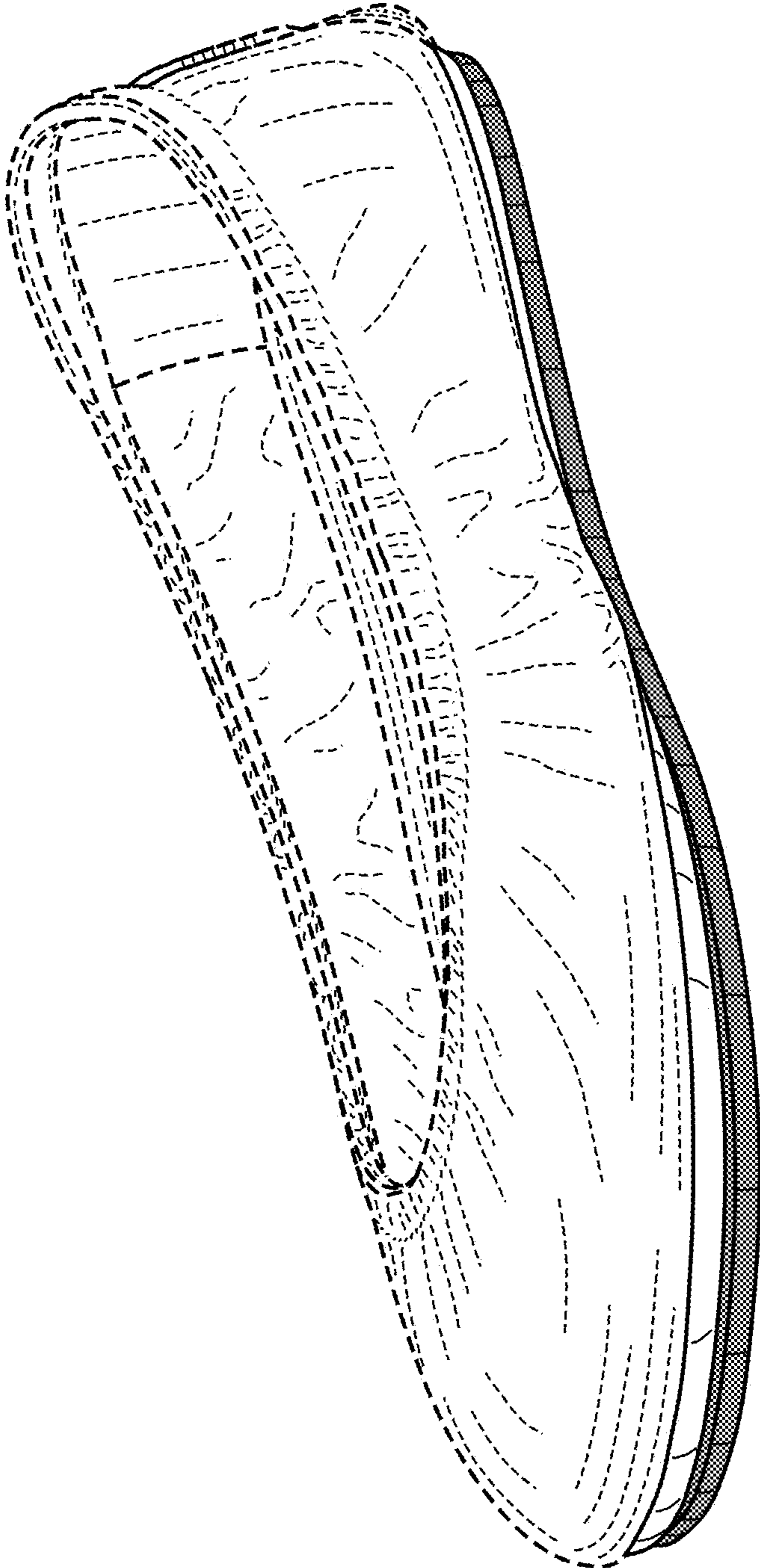


FIG. 1

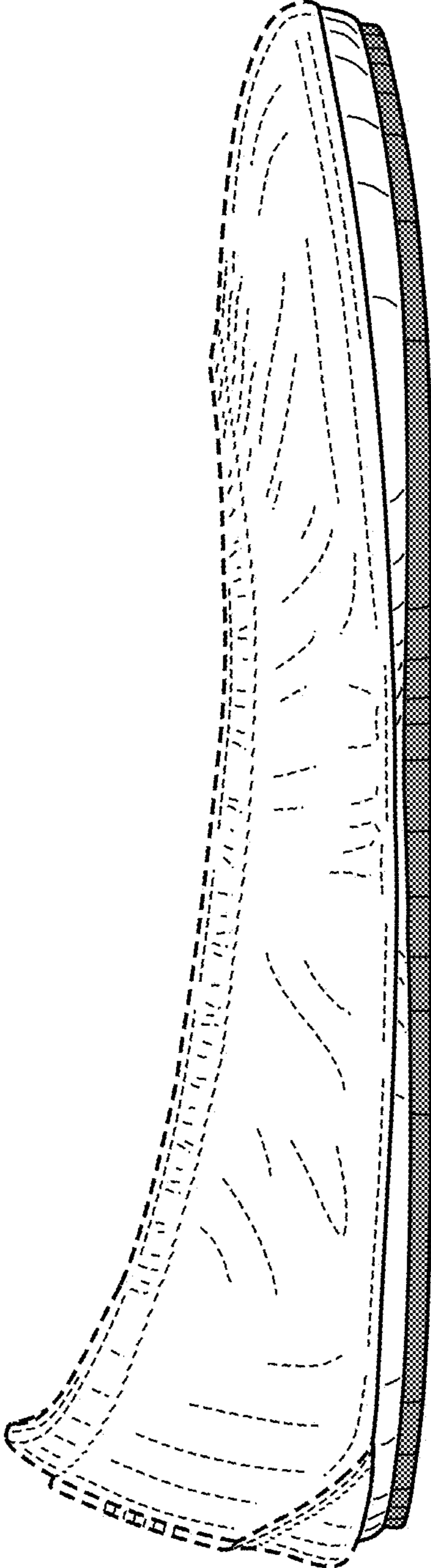


FIG. 2

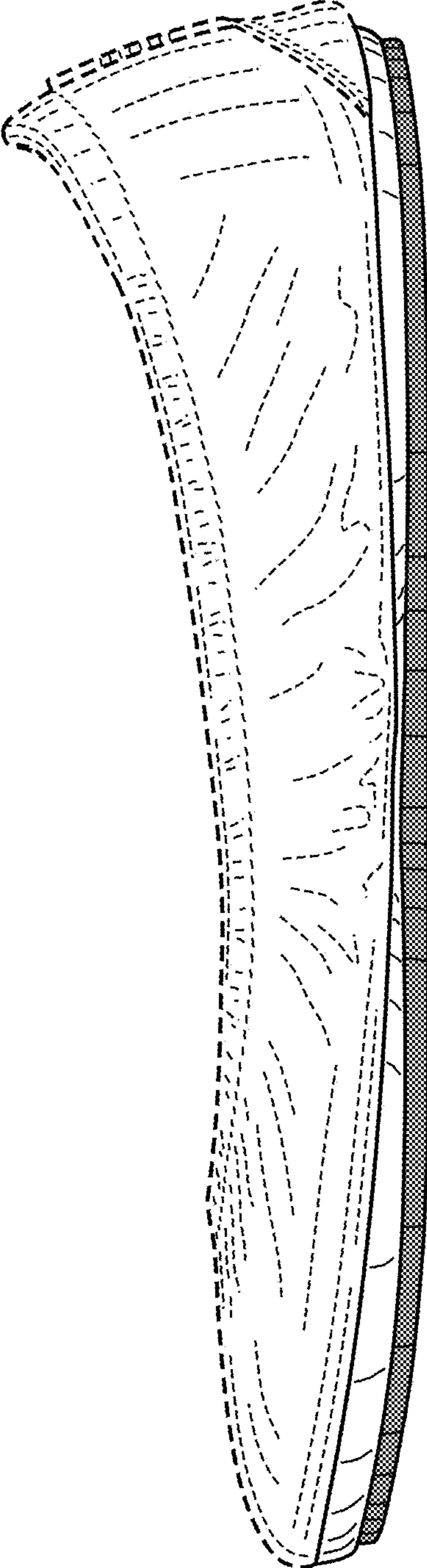


FIG. 3

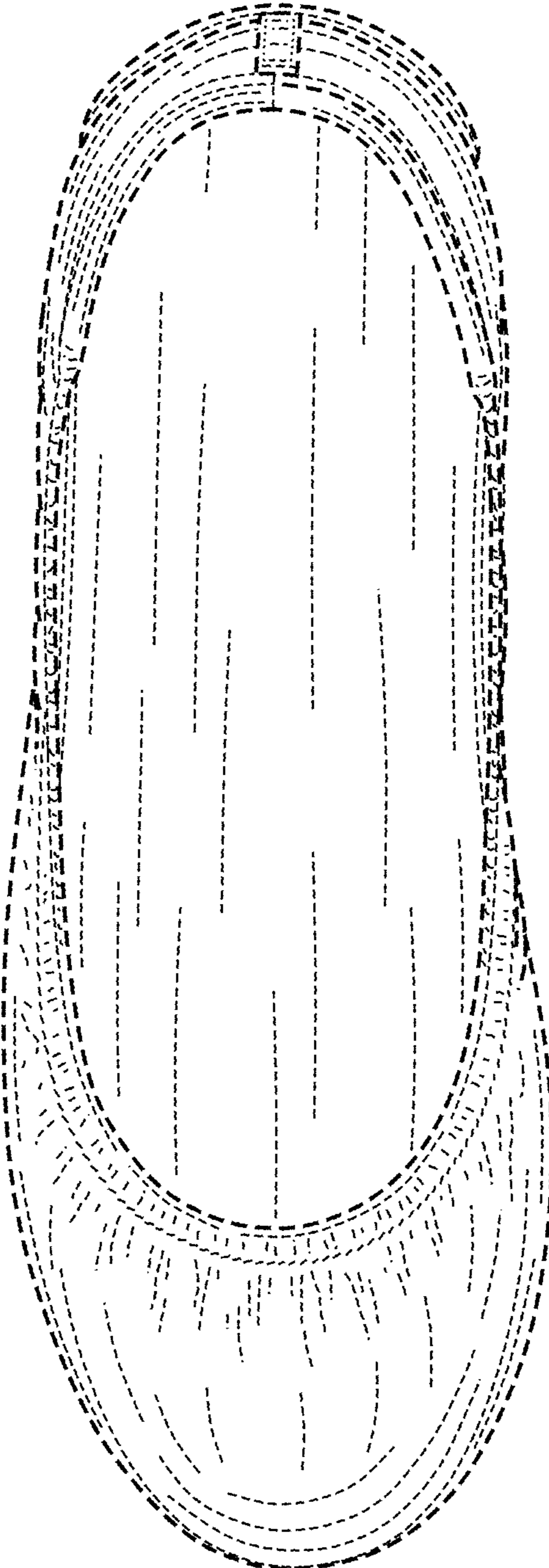


FIG. 4

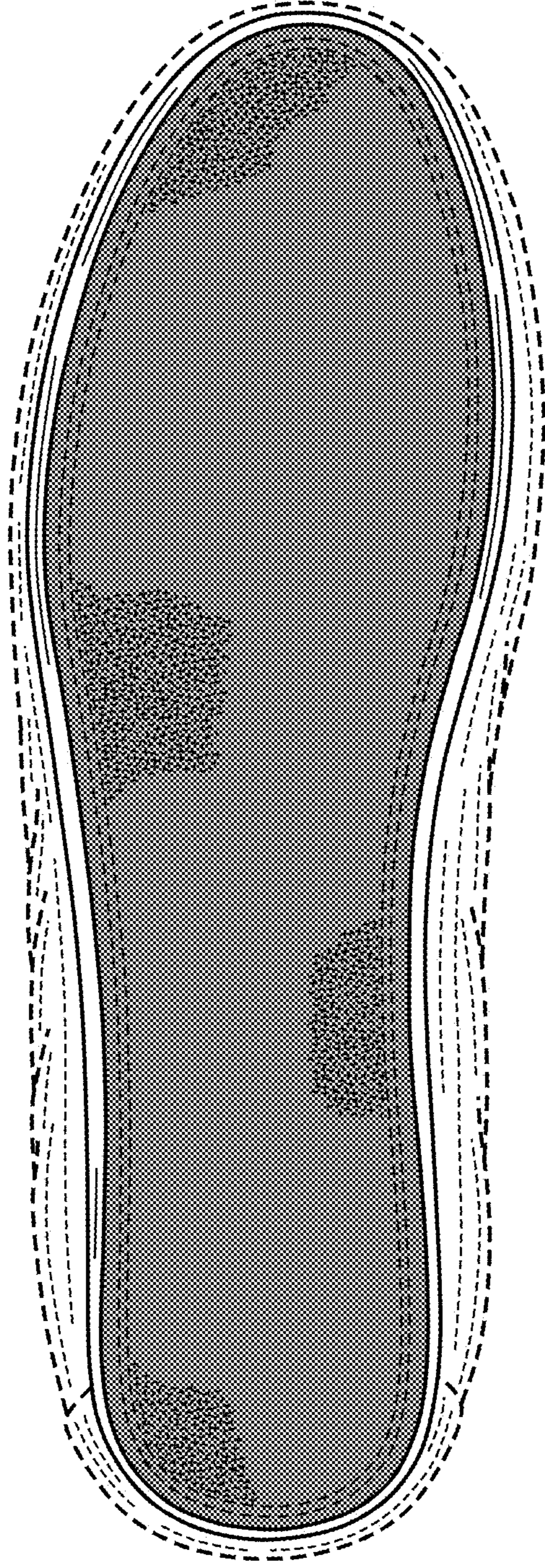


FIG. 5

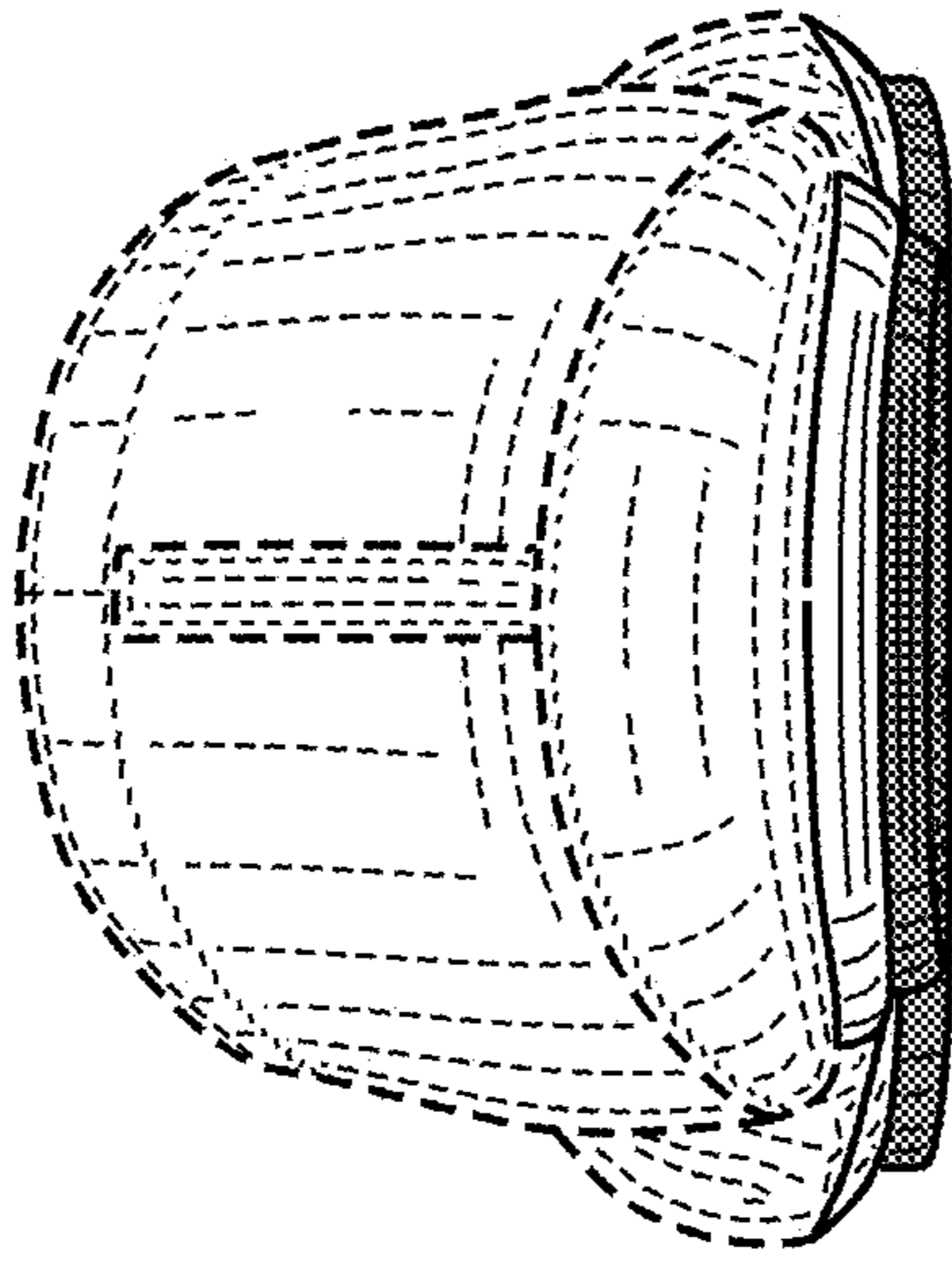


FIG. 7

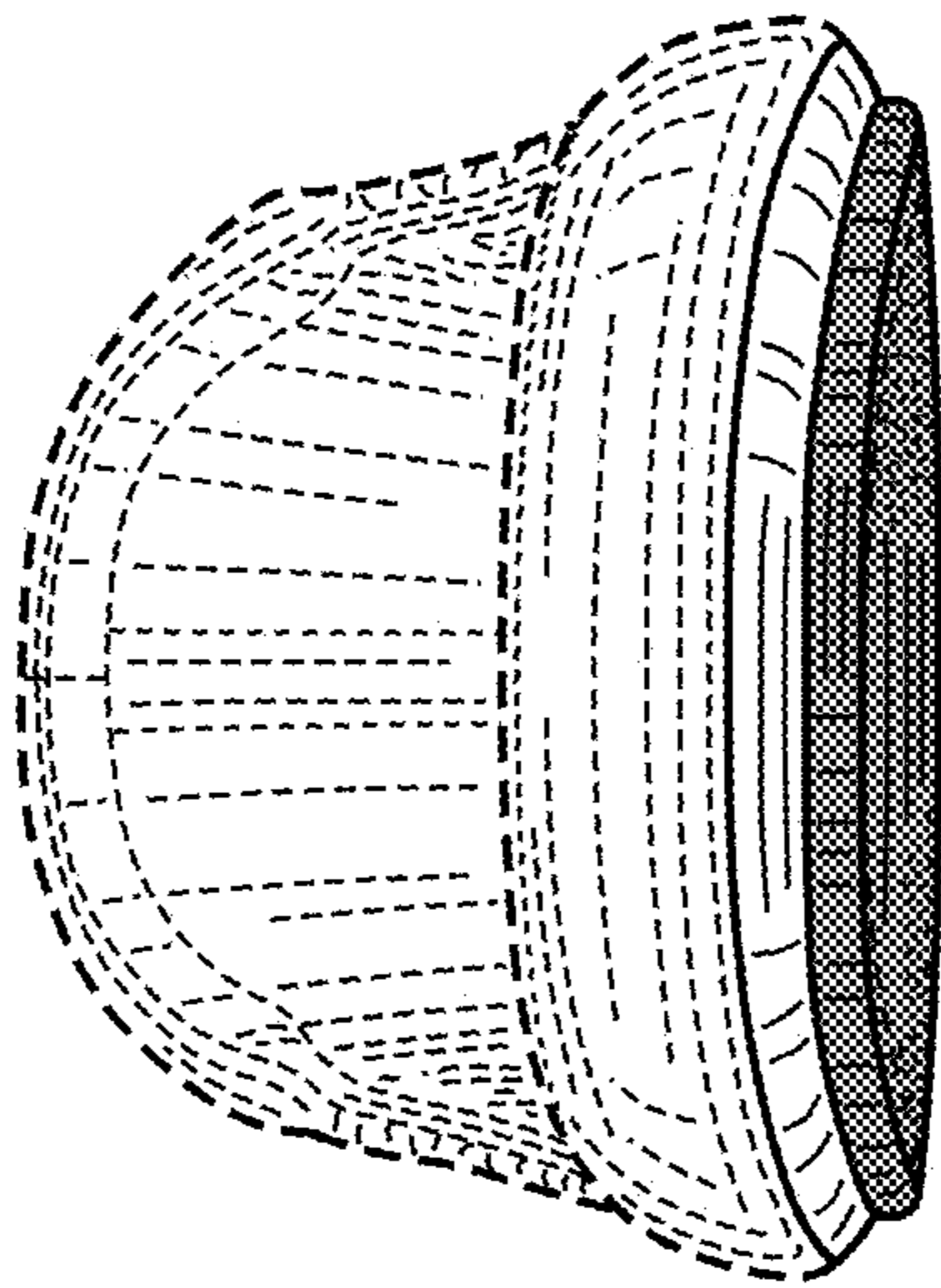


FIG. 6

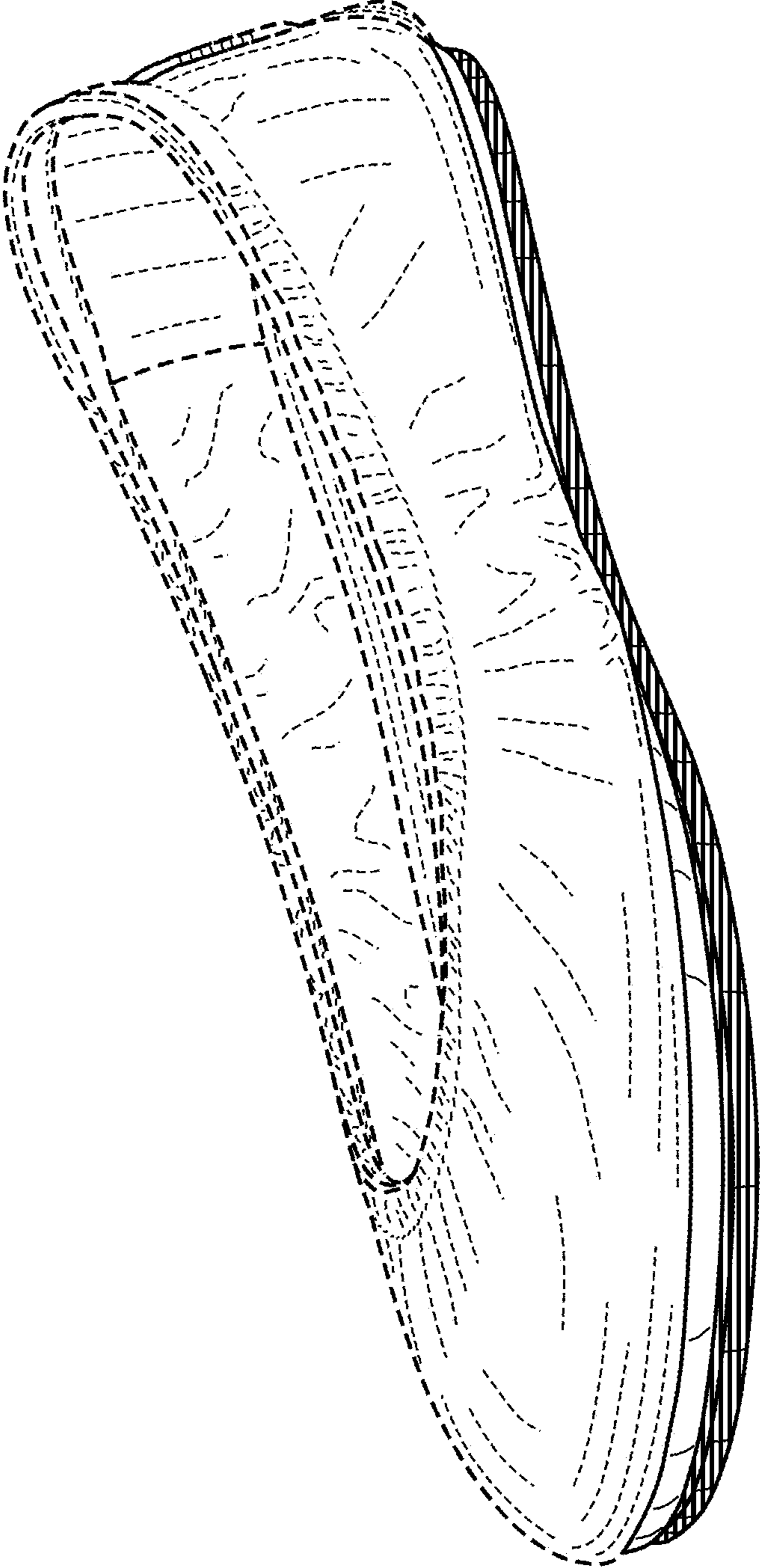


FIG. 8

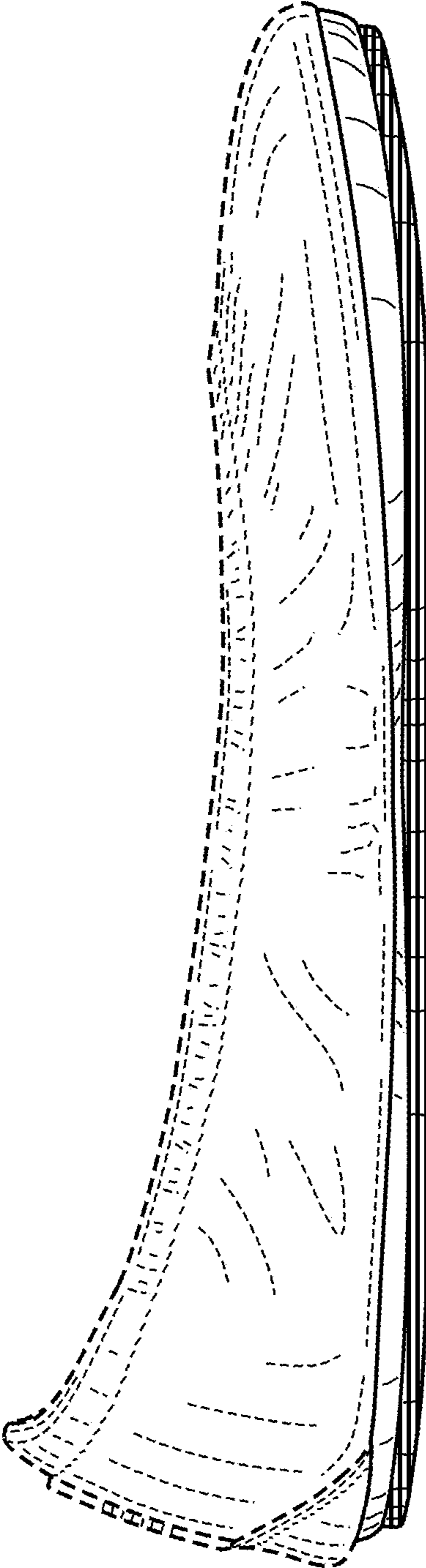


FIG. 9

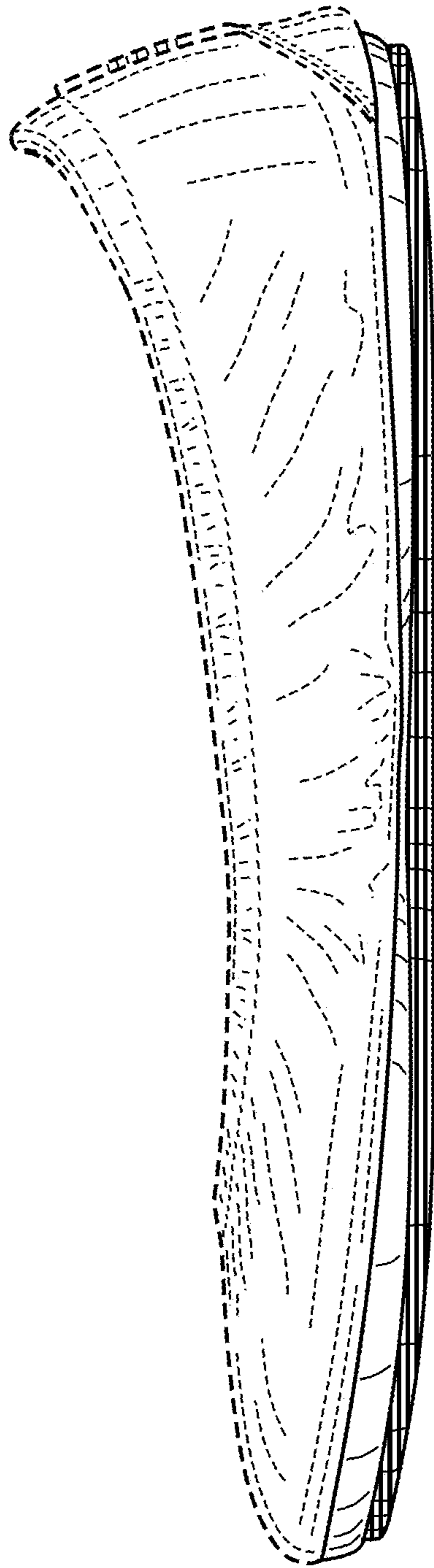


FIG. 10

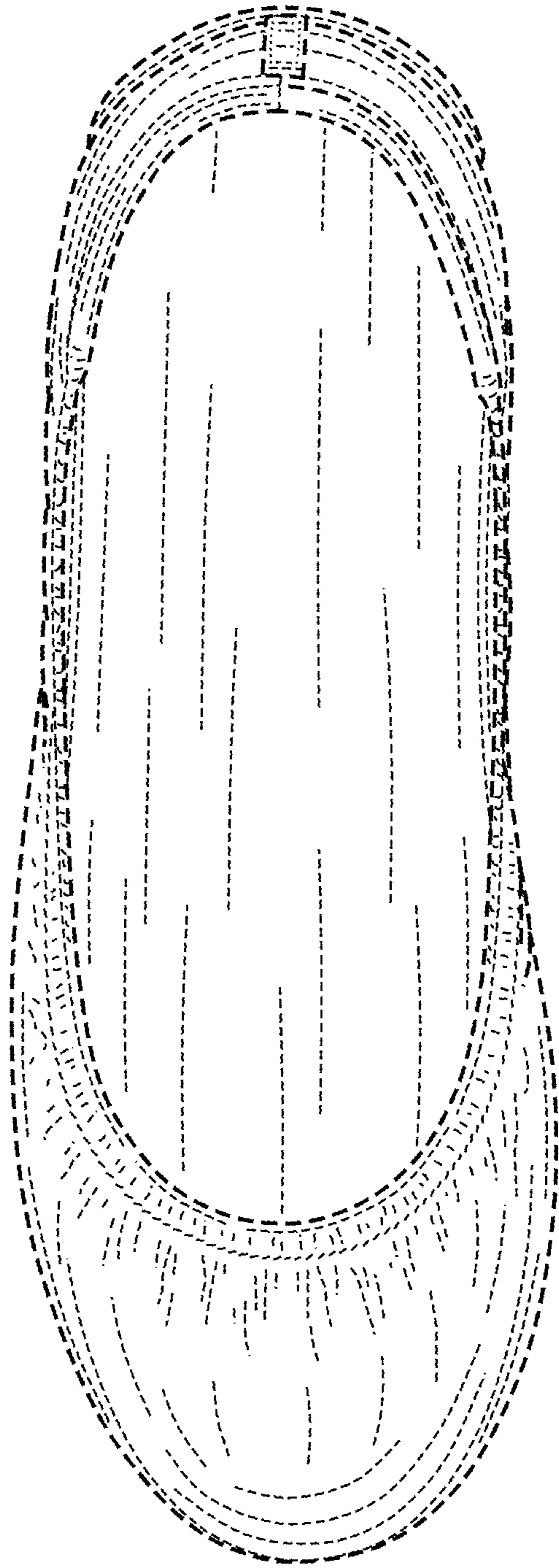


FIG. 11

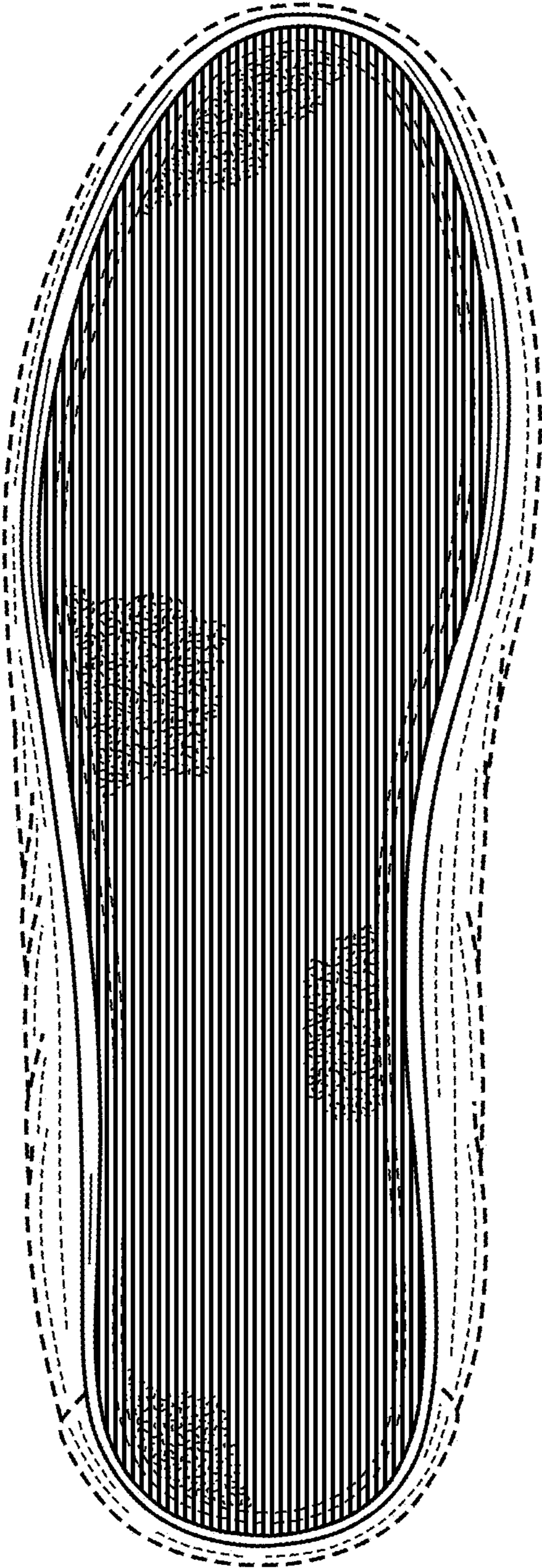


FIG. 12

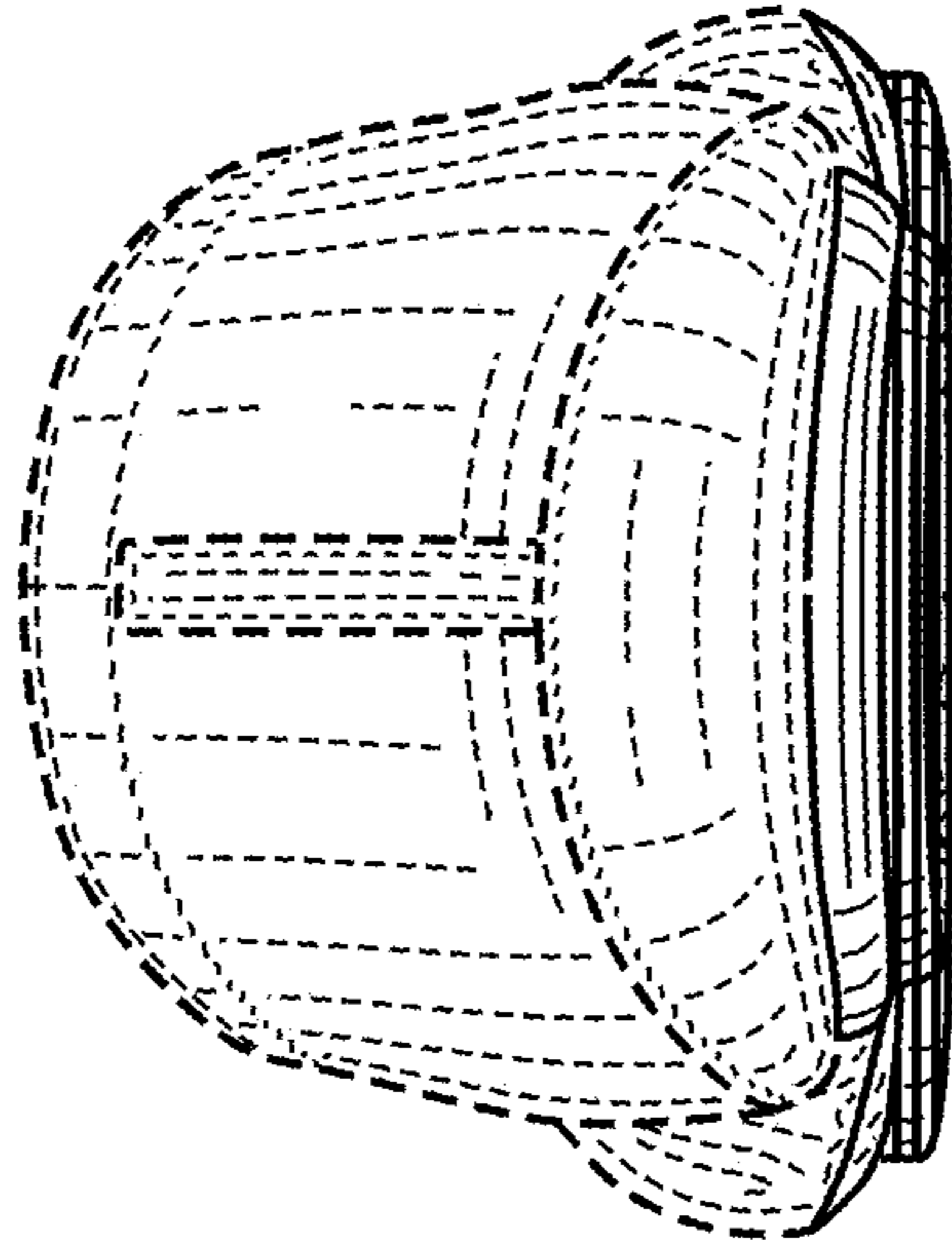


FIG. 14

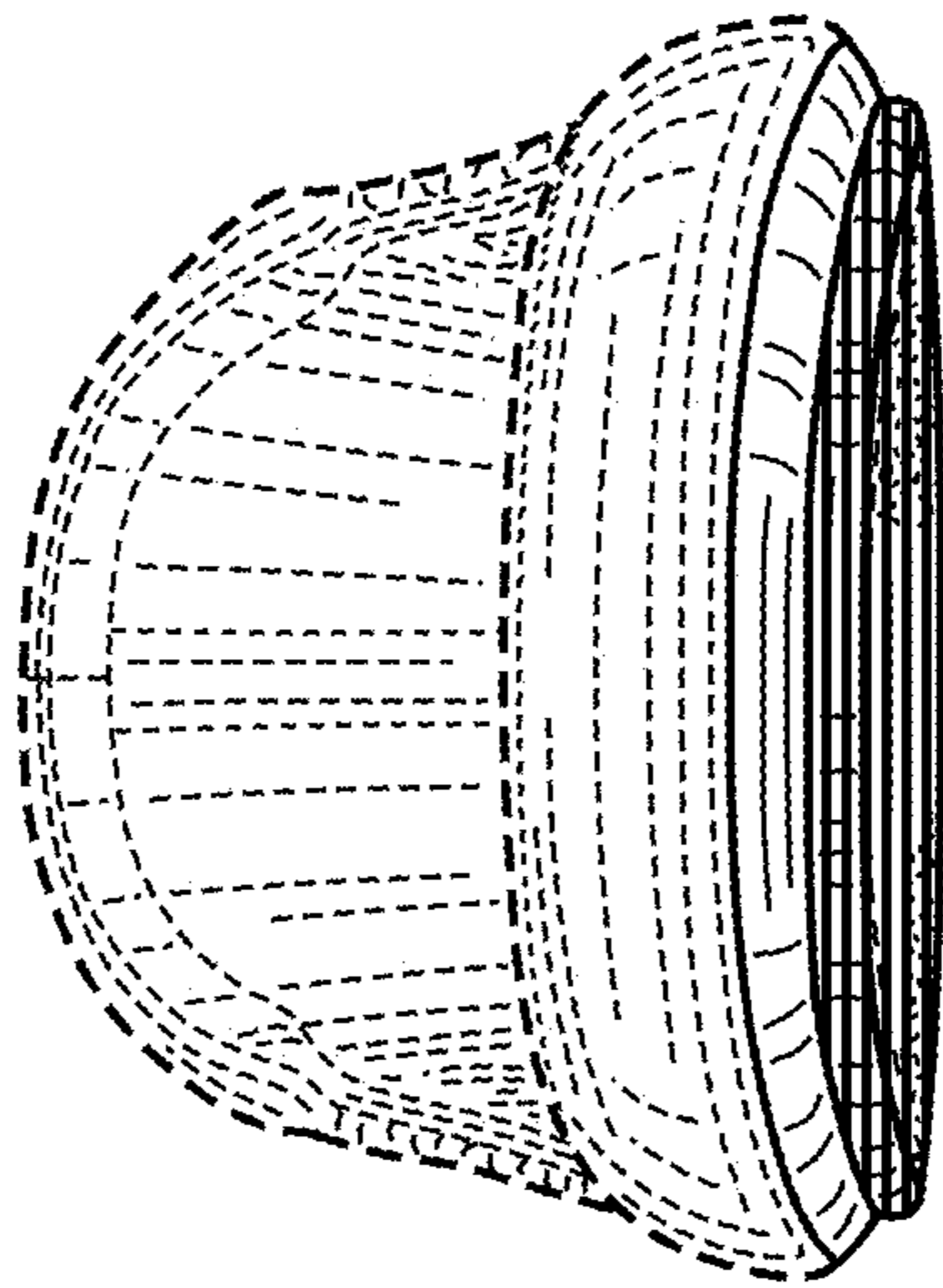


FIG. 13

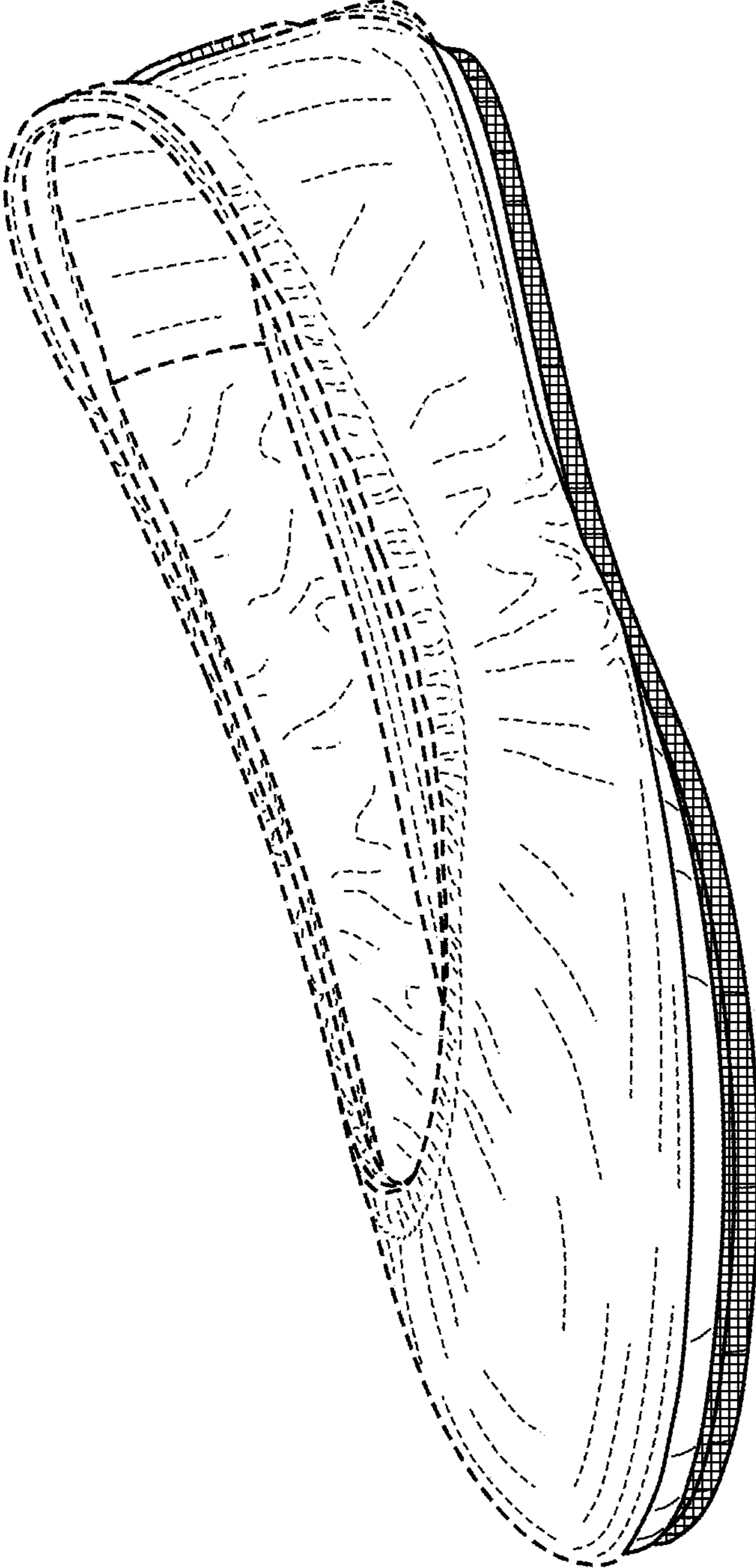


FIG. 15

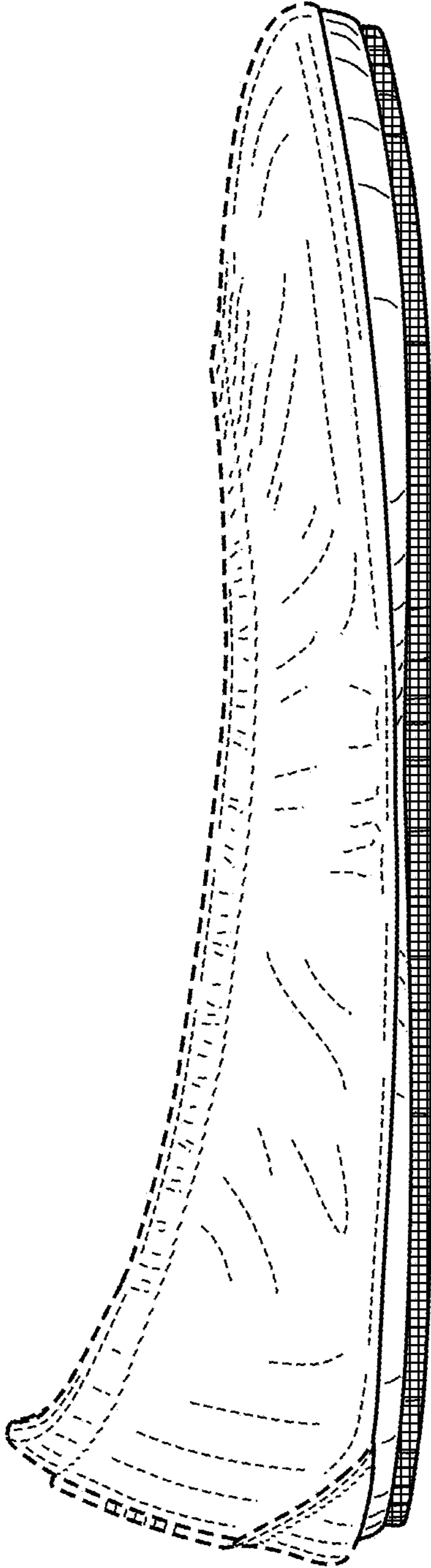


FIG. 16

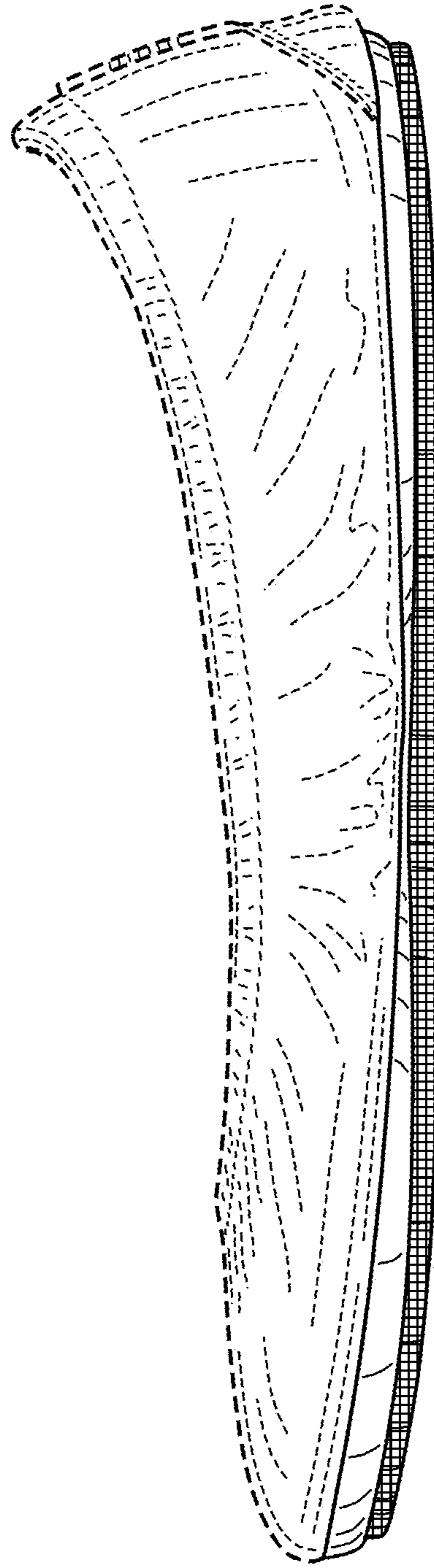


FIG. 17

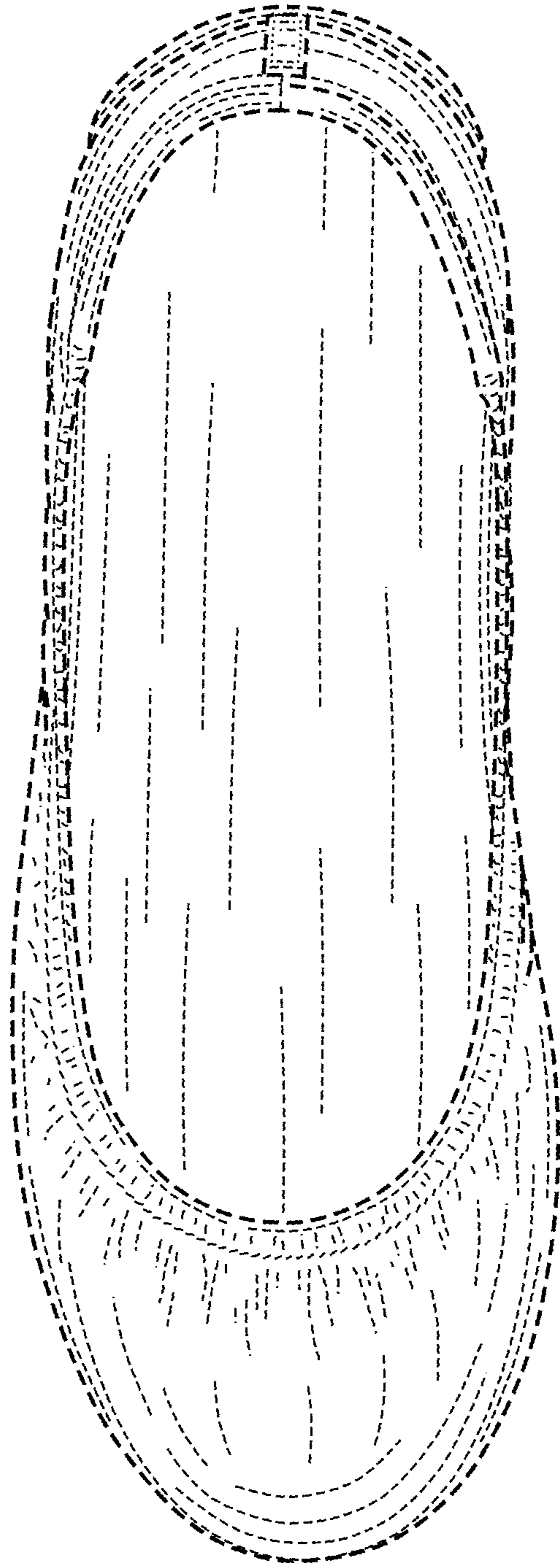


FIG. 18

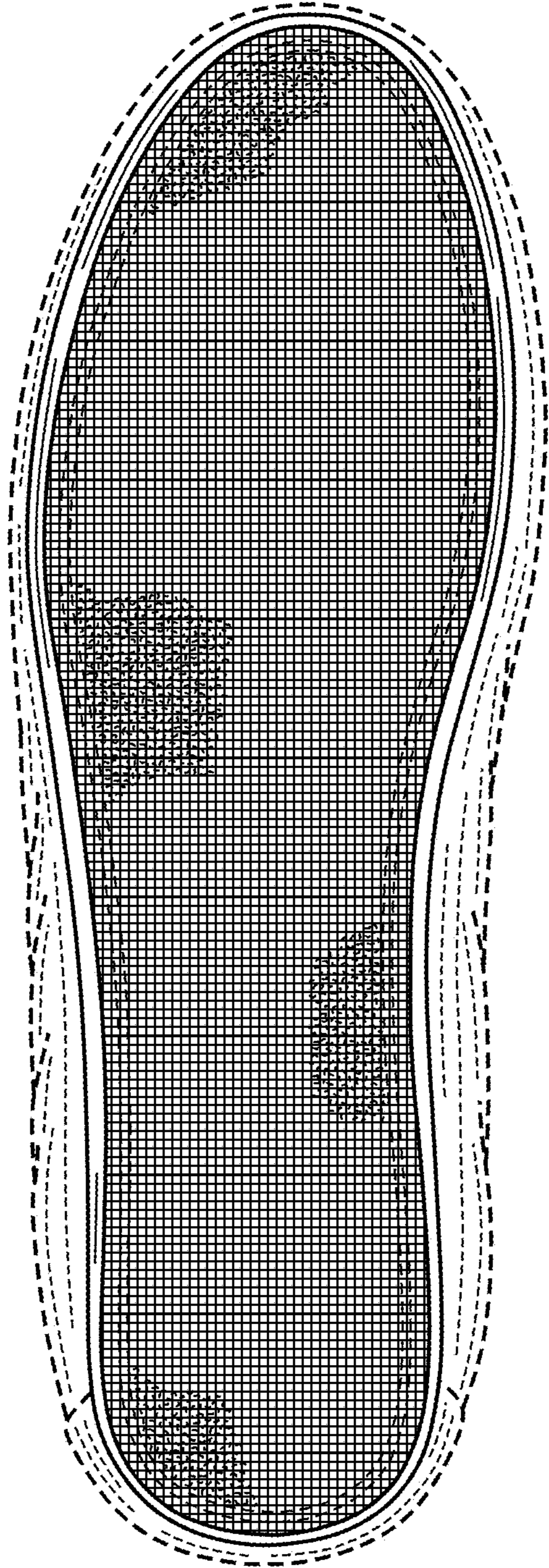


FIG. 19

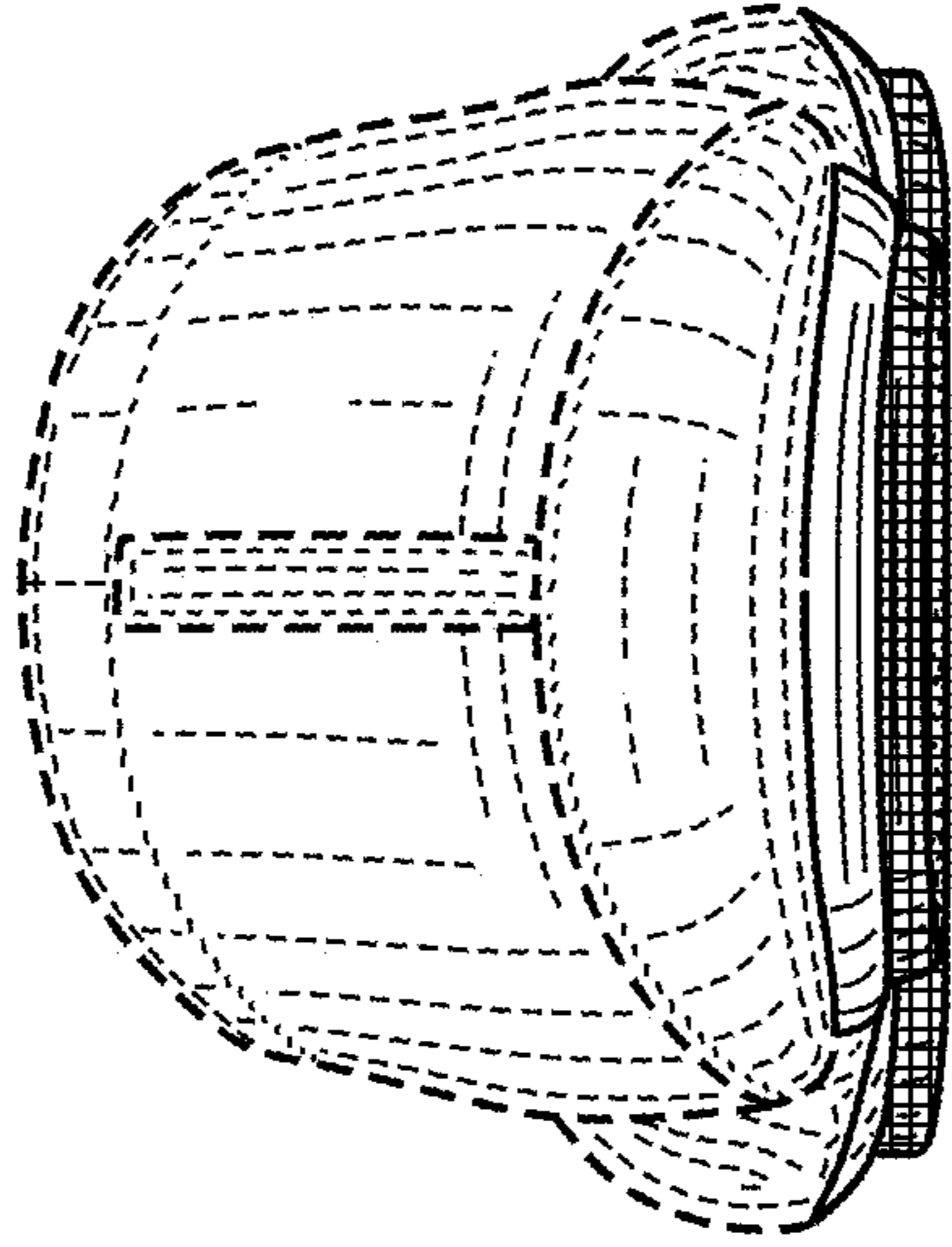


FIG. 21

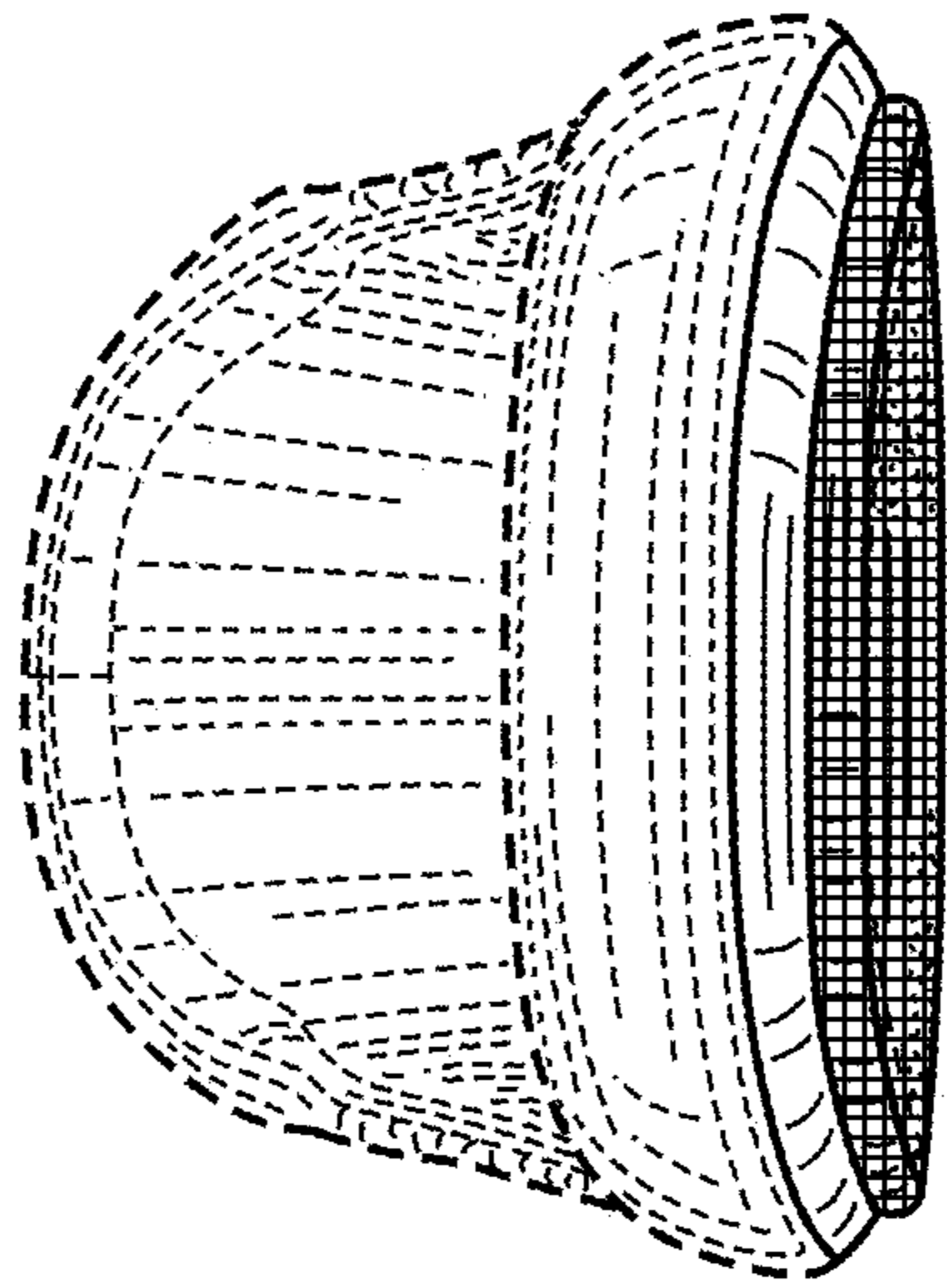


FIG. 20