



US00D982304S

(12) **United States Design Patent**
Blakely et al.

(10) **Patent No.:** **US D982,304 S**
(45) **Date of Patent:** **** Apr. 4, 2023**

- (54) **SHOE LAST**
- (71) Applicant: **Blakely Ventures, LLC**, Atlanta, GA (US)
- (72) Inventors: **Sara Blakely**, Atlanta, GA (US);
Jadideah D. Yarbrough, Atlanta, GA (US); **Sylma Colon-Otten**, Atlanta, GA (US)
- (73) Assignee: **Blakely Ventures, LLC**, Atlanta, GA (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/843,920**
- (22) Filed: **Jun. 24, 2022**
- (51) **LOC (14) Cl.** **07-99**
- (52) **U.S. Cl.**
USPC **D2/979**; D15/137
- (58) **Field of Classification Search**
USPC D2/955, 959, 979; D15/136, 137
CPC A43D 3/00; A43D 3/02; A43D 3/021
See application file for complete search history.

- 1,736,545 A * 11/1929 Miller A43D 3/029
12/139
- 1,971,108 A * 8/1934 Karow A43D 3/021
36/169
- 2,044,676 A * 6/1936 Fikany A43D 3/021
12/133 R

(Continued)

FOREIGN PATENT DOCUMENTS

- BX 35575-006 12/2007
- CA 11238 11/1936

(Continued)

OTHER PUBLICATIONS

Board-Lasted vs. Strobel Constructions. Understanding The Differences. Aug. 2, 2021. <https://www.stories.koio.co/blog/board-vs-strobel-constructions>.

(Continued)

Primary Examiner — Patricia A Palasik
(74) *Attorney, Agent, or Firm* — Meunier Carlin & Curfman LLC

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 1,481,029 A * 1/1924 Ross A43D 3/02
12/140
- 1,575,527 A * 3/1926 Boehmer A43D 3/021
12/133 R
- 1,626,071 A * 4/1927 Borda A43D 3/024
12/135 A
- 1,629,299 A * 5/1927 Pessemier A43D 3/02
12/133 M
- 1,642,764 A * 9/1927 Brown A43D 3/022
12/133 M
- 1,645,716 A * 10/1927 Northrup A43D 3/024
12/15.1
- 1,693,397 A * 11/1928 Miller A43D 3/021
12/133 R
- 1,735,598 A * 11/1929 Creelman A43D 3/021
12/136 R

(57) **CLAIM**

The ornamental design for a shoe last, as shown and described.

DESCRIPTION

FIG. 1 is a front, left-side perspective view of our new design.
FIG. 2 is a front view thereof.
FIG. 3 is a rear view thereof.
FIG. 4 is a right-side view thereof.
FIG. 5 is a left-side view thereof.
FIG. 6 is a top view thereof; and,
FIG. 7 is a bottom view thereof.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2,047,309 A * 7/1936 Clausing A43D 3/025
12/124
2,065,656 A * 12/1936 Clausing A43D 3/023
12/136 R
2,130,199 A * 9/1938 Selendi A43D 3/02
12/133 R
2,139,885 A 12/1938 De Gironimo
2,200,579 A 5/1940 Marshall
2,211,715 A * 8/1940 Dudenhofen A43D 3/024
12/135 A
2,309,775 A * 2/1943 Levitt A43D 3/021
12/133 R
2,465,817 A 3/1949 Perugia
2,622,253 A * 12/1952 Clausing A43D 3/023
12/136 R
2,900,743 A 8/1959 Beth
3,006,007 A * 10/1961 Kotyk A43D 3/028
12/133 B
3,039,207 A 6/1962 Harry
3,170,249 A 2/1965 Taicher
3,657,755 A * 4/1972 Holmes A43D 3/02
12/133 B
D105,727 S 8/1973 Stuart
4,183,156 A 1/1980 Rudy
4,219,945 A 9/1980 Rudy
D282,121 S 1/1986 Kamali
4,936,029 A 6/1990 Rudy
5,042,176 A 8/1991 Rudy
D342,372 S * 12/1993 Gumbert D2/979
D347,099 S 5/1994 Nelson
5,373,650 A 12/1994 Dananberg et al.
D355,524 S 2/1995 Hatfield
D374,553 S * 10/1996 Throneburg D2/979
5,713,141 A 2/1998 Mitchell et al.
5,718,013 A * 2/1998 Gumbert A43D 3/021
12/146 L
5,782,015 A 7/1998 Dananberg
5,952,065 A 9/1999 Mitchell et al.
6,013,340 A 1/2000 Bonk et al.
6,082,025 A 7/2000 Bonk et al.
6,127,026 A 10/2000 Bonk et al.
6,203,868 B1 3/2001 Bonk et al.
6,321,465 B1 11/2001 Bonk et al.
6,745,498 B2 6/2004 LaDuca
7,062,866 B2 6/2006 Bussler
7,140,125 B2 11/2006 Singleton et al.
7,347,011 B2 3/2008 Dua et al.
7,594,346 B2 9/2009 Dananberg
7,665,229 B2 2/2010 Kilgore et al.
7,735,240 B2 6/2010 Lee
7,814,688 B2 10/2010 Dananberg
D634,106 S 3/2011 Davidson
D634,921 S 3/2011 Davidson
7,941,941 B2 5/2011 Hazenberg et al.
D661,070 S 6/2012 Valle et al.
8,246,881 B2 8/2012 Maranan et al.
D672,540 S 12/2012 Lagerfeld
D679,736 S * 4/2013 Jurik D15/137
8,421,822 B2 4/2013 Odland et al.
8,516,717 B2 8/2013 Bonilla-Espada
8,563,020 B2 10/2013 Uhlmann et al.
D715,524 S 10/2014 Silverman
D716,536 S 11/2014 Silverman
D734,019 S * 7/2015 Harris D2/979
D739,650 S * 9/2015 Harris D2/979
D740,006 S 10/2015 Silverman
D751,800 S 3/2016 Silverman
D753,379 S 4/2016 Silverman
D753,380 S 4/2016 Silverman
D756,089 S 5/2016 Silverman
9,510,647 B1 12/2016 Singh et al.
9,538,812 B2 1/2017 Torrance et al.
9,554,621 B2 1/2017 Truelsen
9,717,304 B2 8/2017 Bernhard

10,165,821 B2 1/2019 Truelsen
10,244,813 B2 4/2019 Mitchell
10,271,612 B2 4/2019 Zake
10,390,587 B2 4/2019 Hughes et al.
10,524,532 B2 1/2020 Alan et al.
10,624,416 B2 4/2020 Mitchell
10,721,992 B2 7/2020 Bernhard et al.
10,932,528 B2 3/2021 Bruce et al.
11,311,075 B2 4/2022 Dong et al.
2005/0108897 A1 5/2005 Aveni
2006/0101670 A1 5/2006 Bucalo
2011/0203135 A1 8/2011 DelCielo
2012/0266497 A1 * 10/2012 Kosta A43B 7/1495
36/89
2015/0027002 A1 1/2015 Elliott
2016/0021971 A1 1/2016 Carver
2017/0318899 A1 11/2017 Hendrix et al.
2017/0332733 A1 11/2017 Cluckers et al.
2018/0020772 A1 1/2018 Mitchell
2019/0082777 A1 3/2019 Adami et al.
2019/0365029 A1 12/2019 Cross et al.
2020/0015547 A1 1/2020 Kay
2020/0178649 A1 6/2020 Singleton

FOREIGN PATENT DOCUMENTS

CN 1394763 2/2003
CN 103150099 6/2013
CN 303686775 S 6/2016
CN 205492761 8/2016
CN 304052795 2/2017
CN 304084620 3/2017
CN 304092115 4/2017
CN 304098778 4/2017
CN 304204773 7/2017
CN 304478657 1/2018
CN 207784417 8/2018
CN 109717543 5/2019
CN 111280605 6/2020
CN 306000217 S 8/2020
CN 306247049 12/2020
DE 102004031094 1/2006
DE 102018116882 A1 * 1/2020
EP 3672439 5/2022
GB 276429 8/1927
GB 2069816 A * 9/1981 A43D 3/027
GB 2544606 A 5/2017
HU 88466-0001 7/2000
JP 2020110631 7/2020
JP 3228641 U 11/2020
KR 300592006.0000 3/2011
KR 300594353.0000 3/2011
KR 300647007.0000 5/2012
KR 300677638.0000 1/2013
KR 300760919.0000 9/2014
KR 300891610.0000 1/2017
KR 301025195.0000 9/2019
RU 00084309 2/2013
WO WO-9319633 A1 * 10/1993 A43D 3/021
WO 1998/014083 4/1998
WO 2013190832 12/2013
WO 2020/207549 10/2020

OTHER PUBLICATIONS

Branthwaite, Helen, Nachiappan Chockalingam, and Andrew Greenhalgh. "The effect of shoe toe box shape and volume on forefoot interdigital and plantar pressures in healthy females." *Journal of foot and ankle research* 6.1 (2013), 6:28.
Cong, Y, et al., Regional plantar foot pressure distributions on high-heeled shoes-shank curve effects. *Acta Mech. Sin.* (2011) 27(6):1091-1097. DOI 10.1007/s10409-011-0525-x.
Corey Buhay, What soles are made of: Your guide to footwear tech lingo <https://www.outsidebusinessjournal.com/issues/education/what-soles-are-made-of-your-guide-to-footwear-tech-lingo/> Sep. 30, 2015.

(56)

References Cited

OTHER PUBLICATIONS

- Ebbeling, Christine J., Joseph Hamill, and Jill A. Crussemeyer. "Lower extremity mechanics and energy cost of walking in high-heeled shoes." *Journal of Orthopaedic & Sports Physical Therapy* 19.4 (1994): 190-196.
- Goonetilleke S. Ravindra, *The Science of Footwear*. 2012. Book. High-Heeled Shoes Definition (apparelsearch.com) Oct. 20, 2006. https://www.apparelsearch.com/definitions/footwear/high_heeled_shoes.htm.
- Lecom Health. *The Real Harm in High Heels* <https://lecomhealth.com/the-real-harm-in-high-heels/>.
- Liana Satenstein, *The Fusion Heel-Sneaker Might Be Coming to a Closet Near You*. Oct. 2, 2019.
- Markham Heid, *These Are the Healthiest Shoes To Wear, According to Scientists*. May 30, 2018. <https://time.com/5294580/healthy-shoes-footwear/>.
- Melvin, J.M.A, *The Effects of Heel Height, Shoe Volume and Upper Stiffness on Shoe Comfort and Plantar Pressure*. Thesis. Feb. 2015. 362 pages.
- Michoński, Jakub, et al. "Decreased vertical trunk inclination angle and pelvic inclination as the result of mid-high-heeled footwear on static posture parameters in asymptomatic young adult women." *International journal of environmental research and public health* 16.22 (2019): 4556.
- Shakoor, et al., *Effects of Common Footwear on joint loading in Osteoarthritis of the knee*. *Arthritis Care & Res.* 62.7. 2010, pp. 917-923. <https://onlinelibrary.wiley.com/doi/full/10.1002/acr.20165>.
- Shaping a sensation: *The On Speedboard*. <https://www.on-running.com/en-us/articles/shaping-a-sensation-the-on-speedboard>.
- Shoe Last [Definitive Guide in 2022], Aug. 28, 2019. *What is a Shoe Last? Shoe Last [Definitive Guide in 2022]* (shoemakingcoursesonline.com).
- Speksnijder M. Caroline, et al., *The higher the heel the higher the forefoot-pressure in ten healthy women*. *The Foot* 15 (2005) 17-21.
- Kletina, S., *Stacked Heel: How to Make Heels*. Dec. 3, 2018 *How To Make Heels and Heel Height Calculation* (shoemakingcoursesonline.com).
- Sterling Last Corporation 1932-1982, Booklet. Aug. 25, 182. 36 pages.
- Witana, C.P et al., *Footbedshapes for enhanced footwear comfort*, *Ergonomics*, 2009, 1-12. DOI: 10.1080/00140130802419503.
- Yu Jia, *Development of A Computational Foot Model for Biomechanical Evaluation of High-Heeled Shoe Designs*. Jan. 2009. Thesis. 215 pages.
- Miaomiao Xu, et al., *Foot Morphology in Chinese School Children Varies by Sex and Age*. *Med Sci Monit*, 2018; 24: 4536-4546.
- Ameersing Luximon, et al., *Shoe-last design innovation for better shoe fitting*. *Computers in Industry* 60 (2009) 621-628.
- Matt LaBarge, *Metatarsalgia. Get Relief from Metatarsalgia*, posted on-line 2016. <https://www.happyfeet.com/blog/metatarsalgia/>.
- European Union Registered Community Design No. 001543158-0001 to Segev Davidson ("Davidson III") Filing Date Oct. 6, 2009.
- European Union Registered Community Design No. 001698549-0002 to Tod's S.P.A. ("Tod's I") Filing date Apr. 22, 2010.
- European Union Registered Community Design No. 001543265-0001 to Segev Davidson ("Davidson IV") Filing date Oct. 6, 2009.
- European Union Registered Community Design No. EU002052753-0006 to Tod's S.P.A. ("Tod's II") Filing date May 6, 2012.
- European Union Registered Community Design No. EU002180224-0004 to Shoe.com GmbH & Co. KG ("Shoe.com I") Filing date Jul. 2, 2013.
- European Union Registered Community Design No. 002073791-0002 to Candice Cooper AG ("Candice Cooper") Filing date Jul. 2, 2013.
- European Union Registered Community Design No. 001863986-0003 to Karl Lagerfeld ("Lagerfeld II") Filing date May 16, 2011.
- European Union Registered Community Design No. 002671016-0046 to Gabor ShoeAktiengesellschaft ("Gabor Shoes") Filing date Mar. 27, 2015.
- European Union Registered Community Design No. 001807215-0079 to Kennel & Schmenger Schuhfabrik GmbH ("Kennel") Filing date Jan. 18, 2011.
- International Registration No. DM/077 689 Filing date Nov. 14, 2011.
- International Registration No. DM/081 401 Filing date Jul. 24, 2013.
- Denim look high heel sneakers are new for 2017 URL: <http://highheelsdaily.com/2017/01/22/denim-look-high-heel-sneakers-are-new-for-2017/> Accessed Date: Jan. 12, 2020.
- Finally, a high heel sneaker that isn't a fake nike URL: <http://highheelsdaily.com/2013/05/25/finally-a-high-heel-sneaker-that-isnt-a-fake-nike/> Accessed Date: Jan. 12, 2020.
- Nike high heels shoes—real or fake? URL: <https://visualhunt.com/nike-high-heels-shoes-real-or-fake> Published Date: May 5, 2020.
- HC high heel sneakers black and white low top stiletto 4.5 inch heel regular width URL: <https://www.etsy.com/listing/565184484/hc-highheel-sneakers-black-and-white> Accessed Date: Jan. 12, 2020.
- Sneaker high heels from Adidas URL: <http://highheelsdaily.com/2012/05/18/sneaker-high-heels-from-adidas/> Accessed Date: Jan. 12, 2020.
- Anatomy/construction of high heel shoes URL: <https://in.pinterest.com/pin/701435710689762239/> Accessed Date: Jan. 29, 2021.
- European Union Registered Community Design No. 001097943-0001 to Starkop Sp. z.o.o. Filing date Apr. 14, 2009.
- European Union Registered Community Design No. 006334330-0001 to Thi Hong Lam Pham Filing date Jul. 6, 2021.
- European Union Registered Community Design No. 000028444-0001 to Studio Dick Boons BV Filing date Aug. 19, 2003.
- International Registration No. DM/079 060 Filing date Feb. 21, 2013.
- International Registration No. DM/81401-005 Filing date Aug. 9, 2013.
- International Registration No. DM/77689-001 Filing date May 18, 2012.
- International Registration No. DM/75026-002 Filing date Mar. 31, 2011.
- International Registration No. DM/74187-005 Filing date Aug. 31, 2010.
- Ladies ultra high heel round toe shoe lasts URL: https://www.alibaba.com/product-detail/Ladies-ultra-high-heel-round-toe_62265652953.html?spm=a2700.7724857.0.0.6f5f56d0oSSVIP Accessed Date: Aug. 2, 2022.
- Pair of Plastic Shoe Lasts for Woman High Heel Pumps Shoemaking URL: <https://www.amazon.com/Plastic-Lasts-Woman-Pumps-Shoemaking/dp/B0793MJ51Z> Published Date: Jan. 17, 2018.
- What is a Shoe Last? URL: <https://www.sneakerfactory.net/2020/07/what-is-a-shoe-last/> Published Date: Jul. 4, 2020.
- Cowboy boot shoe last template URL: <https://www.instagram.com/p/CghwKylJ4L/> Accessed Date: Aug. 2, 2022.
- Women's high heel shoe lasts URL: <https://901shoemakers.com/products/shoe-last-high-heel> Accessed Date: Aug. 2, 2022.
- 102mm Block High Heel Component for Shoemaking <https://www.etsy.com/in-en/listing/646895797/102mm-block-high-heel-component-for-1> Published Date: Jul. 4, 2022.
- Shoemaking lasts—high heels URL: <https://icanmakeshoes.com/products/shoemaking-lasts-high-heels> Accessed Date: Aug. 2, 2022.

* cited by examiner



FIG. 1



FIG. 2

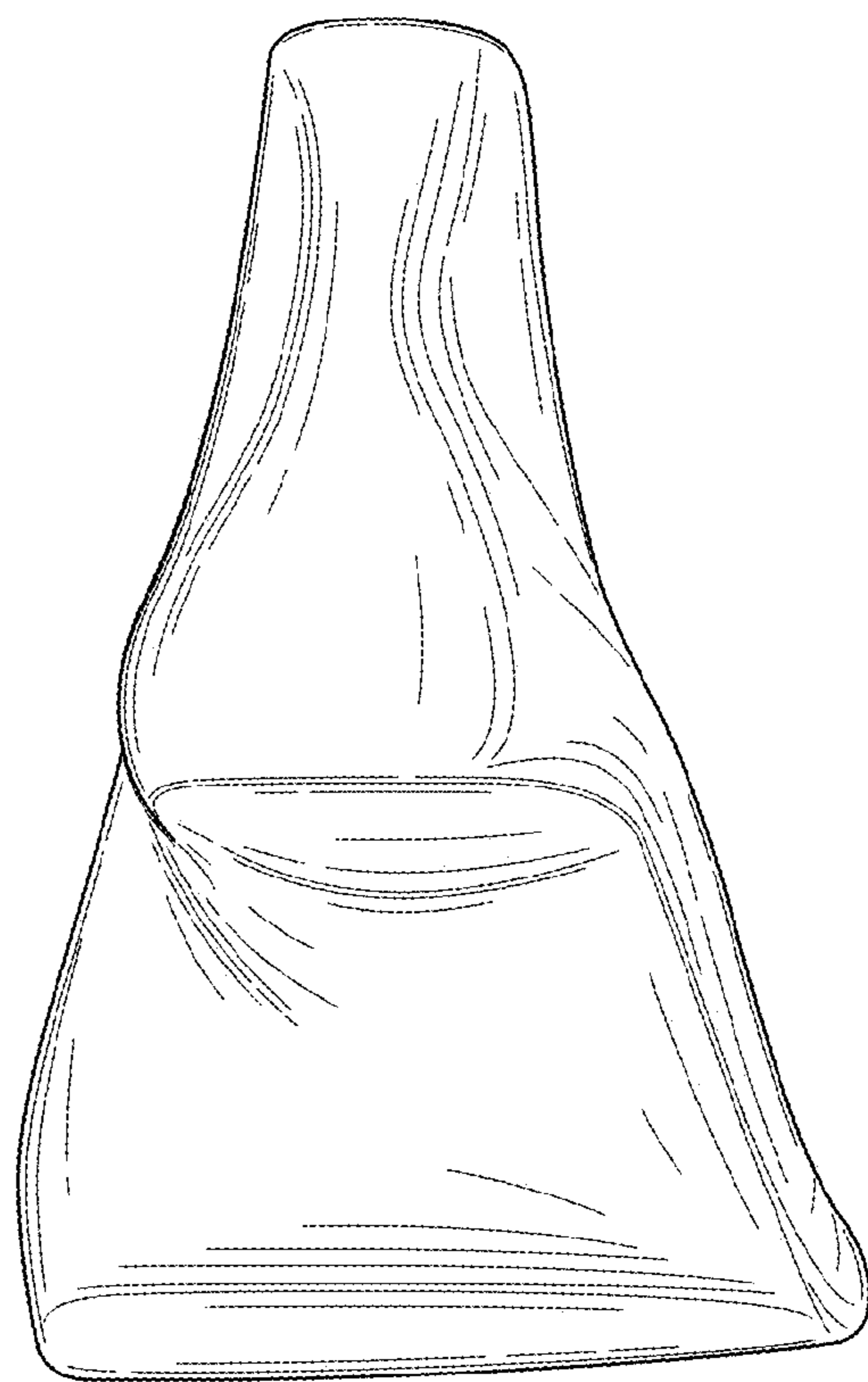


FIG. 3

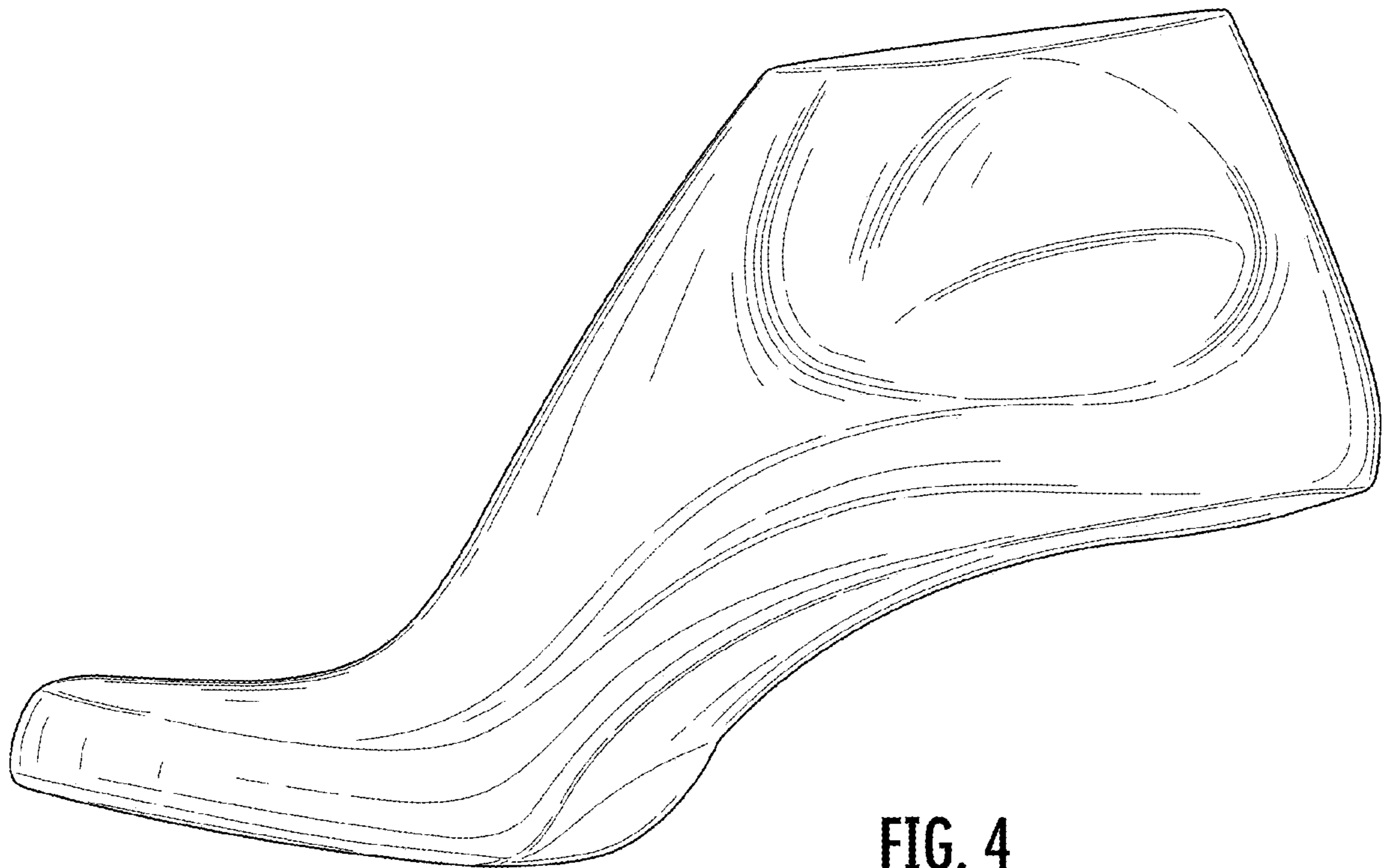


FIG. 4

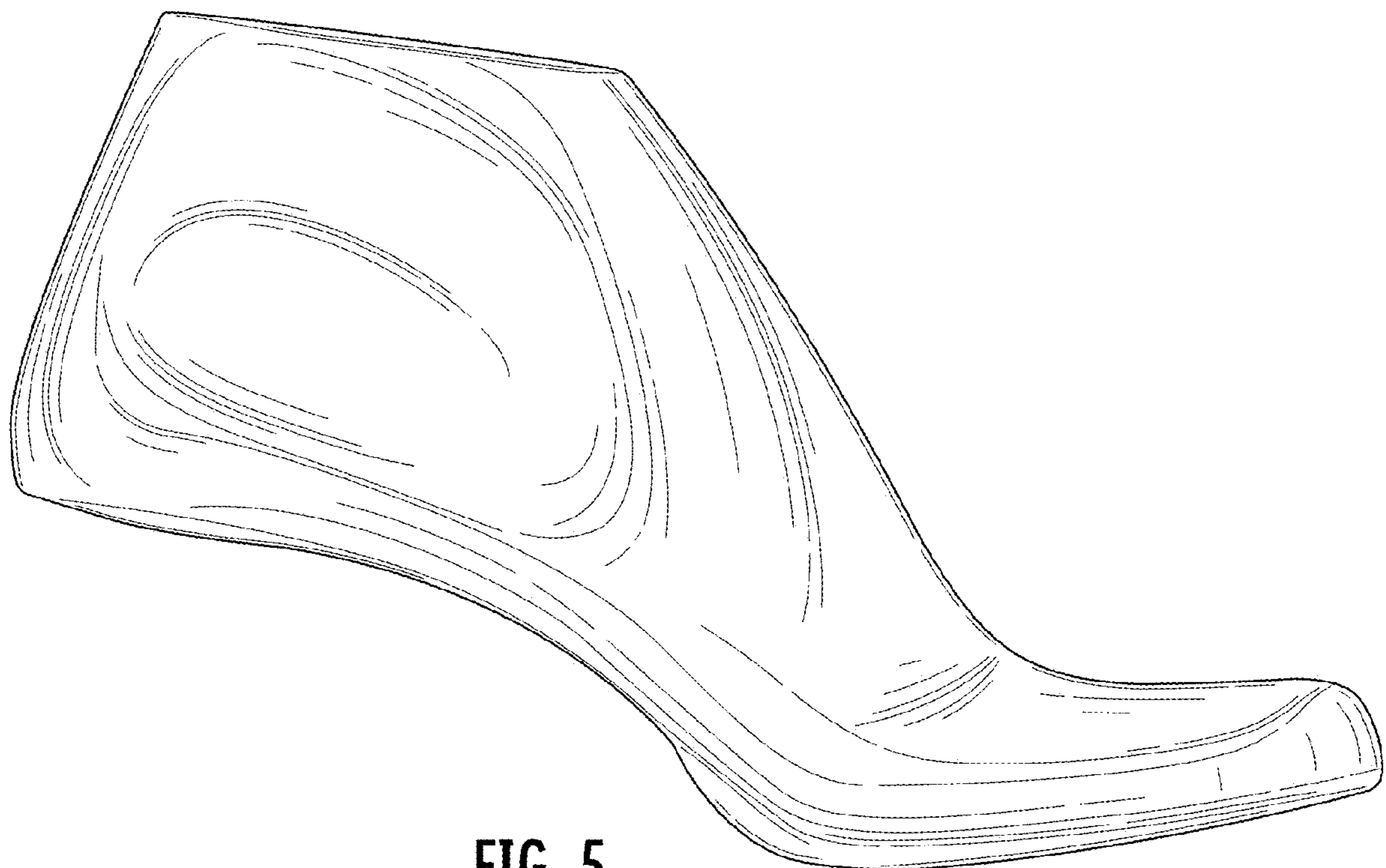


FIG. 5

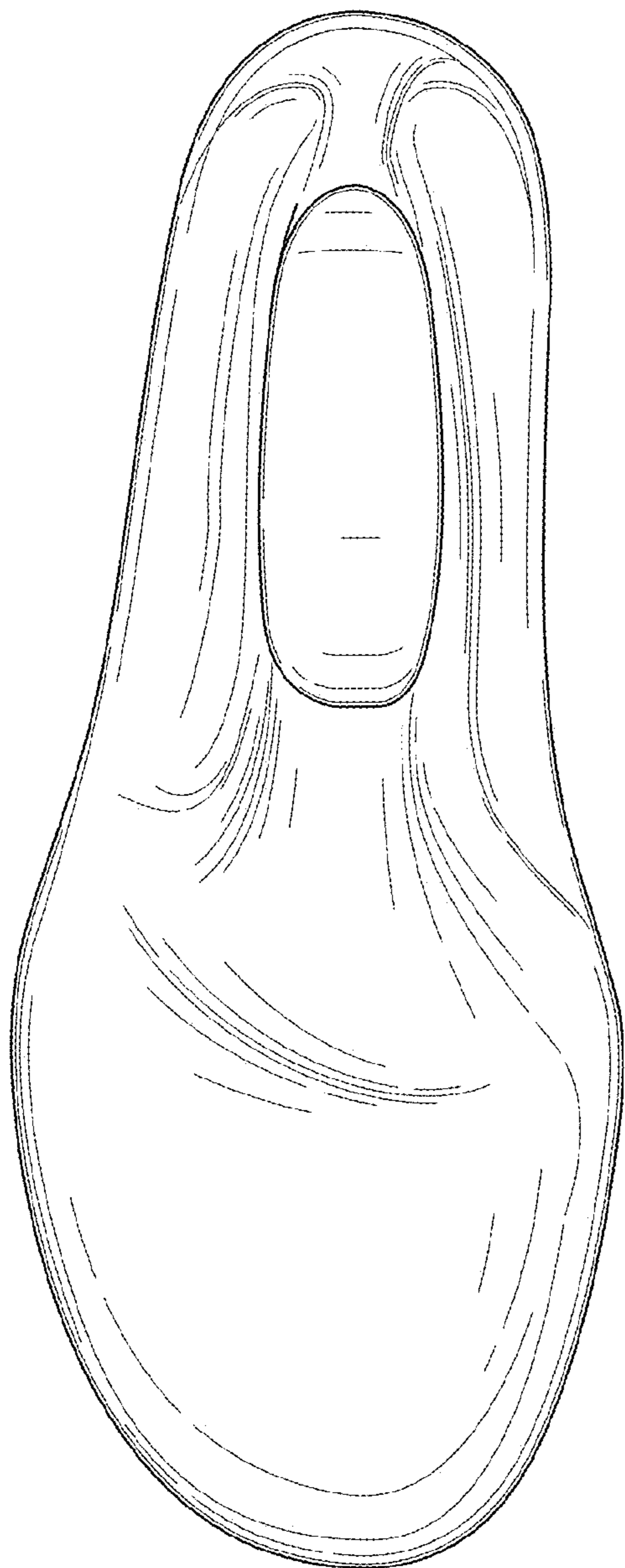


FIG. 6

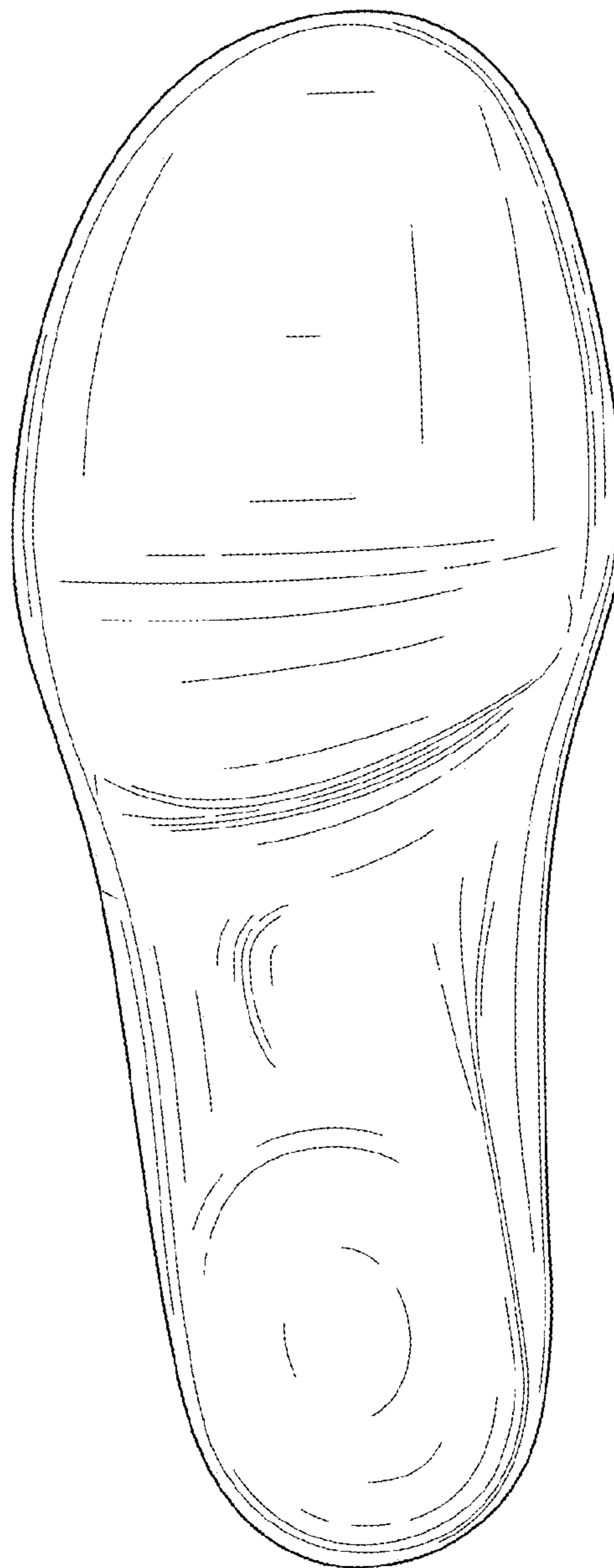


FIG. 7