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# (12) United States Design Patent

Girard et al.

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(54) **SHOE**

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

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(52) **U.S. Cl.**
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(58) **Field of Classification Search**
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CPC ..... A43B 13/00; A43B 13/02; A43B 13/023; A43B 13/026; A43B 13/04; A43B 13/08; A43B 13/10; A43B 13/12; A43B 13/14; A43B 13/141; A43B 13/143; A43B 13/16; A43B 13/18; A43B 13/181; A43B 13/187; A43B 13/189; A43B 13/20; A43B 13/22; A43B 13/223; A43B 13/24; A43B 13/28; A43B 13/30; A43B 13/32; A43B 13/34; A43B 13/36
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D15,185 S 8/1884 Brooks
1,433,309 A 10/1922 Stimpson
(Continued)

FOREIGN PATENT DOCUMENTS

CN 2875129 Y 3/2007
CN 201005124 Y 1/2008
(Continued)

OTHER PUBLICATIONS

First Office Action with First Search issued in corresponding Chinese Application No. 201580085133.6, dated Apr. 13, 2020, 15 pages.
(Continued)

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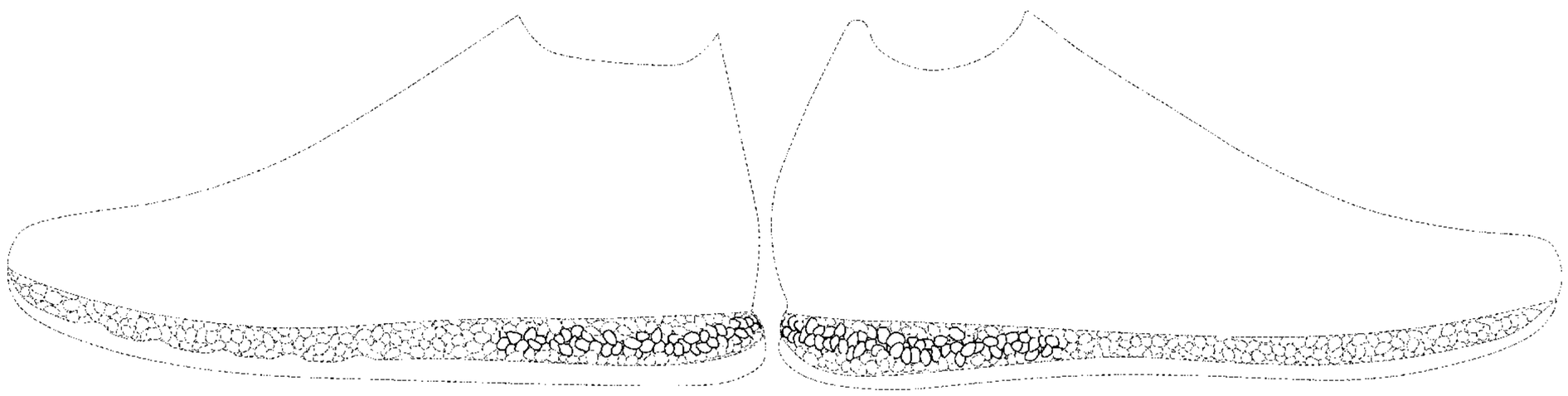
(57) **CLAIM**

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

**DESCRIPTION**

FIG. **1** is a left side elevational view of an ornamental design for a shoe;
FIG. **2** is a rear elevational view of the shoe of FIG. **1**; and,
FIG. **3** is a right side elevational view of the shoe of FIG. **1**.
The dash-dash-dash lines depicting the upper and lower boundaries of the shoe, and the differently weighted dash-dash-dash lines therebetween, are included for the purpose of illustrating portions of the shoe that form no part of the claimed design.

**1 Claim, 3 Drawing Sheets**



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division of application No. 29/594,703, filed on Feb. 22, 2017, now Pat. No. Des. 850,766.

(56) **References Cited**

U.S. PATENT DOCUMENTS


| | | | |
|---|---|---|---|
| D79,583 | S | 10/1929 | Cutler |
| D84,646 | S | 7/1931 | Murray |
| D86,958 | S | 5/1932 | Hakim |
| D90,233 | S | 7/1933 | Daniels |
| D92,670 | S | 7/1934 | Murray |
| D97,945 | S | 12/1935 | Lutz |
| 2,090,881 | A | 8/1937 | Wilson |
| D132,621 | S | 6/1942 | Ivan |
| D161,031 | S | 11/1950 | MacLeod |
| 2,641,004 | A | 6/1953 | Whiting et al. |
| D171,331 | S | 1/1954 | Haines et al. |
| 3,087,262 | A | 4/1963 | Russell |
| D196,491 | S | 10/1963 | Papoutsy |
| D206,222 | S | 11/1966 | Mostile |
| 3,469,576 | A | 9/1969 | Smith |
| D216,246 | S | 12/1969 | Mistarz |
| 3,573,155 | A | 3/1971 | Mitchell |
| 3,629,051 | A | 12/1971 | Mitchell |
| 3,971,839 | A | 7/1976 | Taylor |
| D241,484 | S | 9/1976 | Castano |
| 4,089,069 | A | 5/1978 | Vistins |
| 4,112,599 | A | 9/1978 | Krippelz |
| D254,578 | S | 4/1980 | Finn |
| D255,171 | S | 6/1980 | Bowers |
| D255,178 | S | 6/1980 | Fuzita |
| D255,286 | S | 6/1980 | Fuzita |
| D256,067 | S | 7/1980 | Hagg et al. |
| D263,348 | S | 3/1982 | Cohen |
| D263,518 | S | 3/1982 | Cohen |
| D265,017 | S | 6/1982 | Vermonet |
| D265,019 | S | 6/1982 | Vermonet |
| D265,437 | S | 7/1982 | Vermonet |
| 4,345,387 | A | 8/1982 | Daswick |
| 4,399,620 | A | 8/1983 | Funck |
| D272,963 | S | 3/1984 | Muller et al. |
| D274,956 | S | 8/1984 | Saruwatari |
| 4,501,076 | A | 2/1985 | Dodds |
| 4,557,059 | A | 12/1985 | Misevich et al. |
| D287,902 | S | 1/1987 | Forsyth |
| 4,658,515 | A | 4/1987 | Oatman |
| D290,182 | S | 6/1987 | Chen |
| D293,271 | S | 12/1987 | Lussier |
| D293,275 | S | 12/1987 | Bua |
| D293,620 | S | 1/1988 | Liggett et al. |
| D295,917 | S | 5/1988 | Brown et al. |
| D296,039 | S | 6/1988 | Diaz |
| D296,149 | S | 6/1988 | Diaz |
| D296,954 | S | 8/1988 | Tong |
| D297,682 | S | 9/1988 | Le |
| D298,483 | S | 11/1988 | Liggett et al. |
| D298,582 | S | 11/1988 | Caire |
| D299,581 | S | 1/1989 | Friedenberg |
| 4,843,741 | A | 7/1989 | Yung-Mao |
| 4,845,863 | A | 7/1989 | Tung-Mao |
| 4,858,340 | A | 8/1989 | Pasternak |
| D304,520 | S | 11/1989 | Clark |
| D304,521 | S | 11/1989 | Clark |
| D305,382 | S | 1/1990 | Kiyosawa |
| D306,793 | S | 3/1990 | Schwartz |
| D307,971 | S | 5/1990 | Maccano et al. |
| D308,285 | S | 6/1990 | Serna |
| D310,293 | S | 9/1990 | Sema et al. |
| D310,295 | S | 9/1990 | Boucher et al. |
| D311,989 | S | 11/1990 | Parker et al. |
| 4,970,807 | A | 11/1990 | Anderie et al. |
| D312,920 | S | 12/1990 | Aveni |
| D313,113 | S | 12/1990 | Aveni |
| D319,535 | S | 9/1991 | Hatfield |
| D320,689 | S | 10/1991 | Smith |
| D321,589 | S | 11/1991 | Merk et al. |
| D321,973 | S | 12/1991 | Hatfield |
| D321,974 | S | 12/1991 | Hatfield |
| D324,762 | S | 3/1992 | Hatfield |
| D324,940 | S | 3/1992 | Claveria |
| 5,092,060 | A | 3/1992 | Frachey et al. |
| D328,815 | S | 8/1992 | Legacki et al. |
| D329,528 | S | 9/1992 | Hatfield |
| 5,150,490 | A | 9/1992 | Busch et al. |
| D329,940 | S | 10/1992 | Hatfield |
| D330,454 | S | 10/1992 | Elliot |
| 5,152,081 | A | 10/1992 | Hallenbeck et al. |
| D330,627 | S | 11/1992 | Frachey et al. |
| D330,629 | S | 11/1992 | Bramani |
| 5,222,311 | A | 6/1993 | Lin |
| D337,650 | S | 7/1993 | Thomas, III et al. |
| D339,447 | S | 9/1993 | McDonald |
| D339,448 | S | 9/1993 | Teague |
| D339,454 | S | 9/1993 | Hatfield |
| D339,675 | S | 9/1993 | Austin |
| D339,906 | S | 10/1993 | Frachey et al. |
| D340,349 | S | 10/1993 | Kilgore et al. |
| D340,350 | S | 10/1993 | Kilgore et al. |
| D340,797 | S | 11/1993 | Pallera et al. |
| D341,700 | S | 11/1993 | Avar |
| D343,044 | S | 1/1994 | Kilgore et al. |
| 5,313,717 | A | 5/1994 | Allen et al. |
| 5,329,705 | A | 7/1994 | Grim et al. |
| D350,013 | S | 8/1994 | Gitelman |
| D350,222 | S | 9/1994 | Hase |
| 5,383,290 | A | 1/1995 | Grim |
| D356,438 | S | 3/1995 | Opie et al. |
| D356,885 | S | 4/1995 | Poole, Jr. |
| D362,956 | S | 10/1995 | Martin et al. |
| D365,920 | S | 1/1996 | Schneider |
| D366,955 | S | 2/1996 | Valle |
| D371,896 | S | 7/1996 | McMullin |
| D373,013 | S | 8/1996 | Rosetta |
| 5,542,195 | A | 8/1996 | Sessa |
| D373,896 | S | 9/1996 | Parker |
| 5,575,088 | A | 11/1996 | Allen et al. |
| 5,587,231 | A | 12/1996 | Mereer et al. |
| 5,595,005 | A | 1/1997 | Throneburg et al. |
| 5,607,749 | A | 3/1997 | Strumor |
| D378,871 | S | 4/1997 | Hatfield |
| 5,617,650 | A | 4/1997 | Grim |
| 5,626,657 | A | 5/1997 | Pearce |
| D384,794 | S | 10/1997 | Merceron |
| D386,589 | S | 11/1997 | Cass |
| D386,590 | S | 11/1997 | Cass |
| D386,591 | S | 11/1997 | Kuerbis |
| D387,546 | S | 12/1997 | Pearce |
| D389,991 | S | 2/1998 | Elliott |
| D390,349 | S | 2/1998 | Murai et al. |
| D391,045 | S | 2/1998 | Assous |
| D391,748 | S | 3/1998 | Koh |
| D393,299 | S | 4/1998 | Hunt |
| D395,738 | S | 7/1998 | Hatfield et al. |
| D396,341 | S | 7/1998 | Lozano et al. |
| D397,236 | S | 8/1998 | Wilmot |
| D398,740 | S | 9/1998 | Hewett |
| D398,748 | S | 9/1998 | Hatfield et al. |
| D399,041 | S | 10/1998 | Teague |
| D400,345 | S | 11/1998 | Teaque |
| D401,397 | S | 11/1998 | Chen |
| D401,743 | S | 12/1998 | Wunsch |
| D405,595 | S | 2/1999 | Kayano |
| D407,892 | S | 4/1999 | Gaudio |
| 5,890,248 | A | 4/1999 | Gee |
| D411,579 | S | 6/1999 | Dolinsky |
| 5,909,719 | A | 6/1999 | Throneburg et al. |
| D414,920 | S | 10/1999 | Cahill |
| D415,607 | S | 10/1999 | Merceron |
| D415,610 | S | 10/1999 | Cahill |
| D415,876 | S | 11/1999 | Cahill |
| D416,669 | S | 11/1999 | Parr et al. |
| 5,996,252 | A | 12/1999 | Cougar |
| D422,780 | S | 4/2000 | Aguerre |
| D423,199 | S | 4/2000 | Cahill |
| 6,061,928 | A | 5/2000 | Nichols |

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| D426,053 | S | 6/2000 | Santa |
| 6,076,283 | A | 6/2000 | Boie |
| D429,874 | S | 8/2000 | Gumbert |
| D431,346 | S | 10/2000 | Birkenstock |
| 6,127,010 | A | 10/2000 | Franklin |
| 6,187,837 | B1 | 2/2001 | Pearce |
| D442,767 | S | 5/2001 | Della Valle |
| D444,620 | S | 7/2001 | Della Valle |
| 6,258,421 | B1 | 7/2001 | Potter |
| D446,002 | S | 8/2001 | Leong et al. |
| D446,637 | S | 8/2001 | Patterson et al. |
| D448,544 | S | 10/2001 | Della Valle |
| 6,308,438 | B1 | 10/2001 | Throneburg et al. |
| 6,312,782 | B1 | 11/2001 | Goldberg et al. |
| 6,314,661 | B1 | 11/2001 | Chern |
| 6,341,432 | B1 | 1/2002 | Muller |
| D460,852 | S | 7/2002 | Daudier |
| 6,418,641 | B1 | 7/2002 | Schenkel |
| D461,299 | S | 8/2002 | McClaskie |
| D461,947 | S | 8/2002 | Merceron |
| D469,948 | S | 2/2003 | Lin |
| D470,296 | S | 2/2003 | Masullo |
| D474,330 | S | 5/2003 | McClaskie |
| D475,512 | S | 6/2003 | Chen |
| D479,643 | S | 9/2003 | OShea et al. |
| D482,851 | S | 12/2003 | McClaskie |
| D483,932 | S | 12/2003 | Cooper |
| D485,973 | S | 2/2004 | Adams |
| D489,880 | S | 5/2004 | McClaskie |
| D490,223 | S | 5/2004 | McClaskie |
| D490,233 | S | 5/2004 | Cooper |
| 6,739,074 | B2 | 5/2004 | Trommer |
| D492,101 | S | 6/2004 | Issler |
| D492,475 | S | 7/2004 | Adams |
| D494,343 | S | 8/2004 | Morris |
| 6,782,640 | B2 | 8/2004 | Westin |
| D495,861 | S | 9/2004 | Georgiou et al. |
| D496,149 | S | 9/2004 | Belley et al. |
| 6,817,113 | B2 | 11/2004 | Pan |
| 6,848,200 | B1 | 2/2005 | Westin |
| D506,305 | S | 6/2005 | Link |
| D509,649 | S | 9/2005 | McClaskie |
| 6,948,264 | B1 | 9/2005 | Lyden |
| 6,957,504 | B2 | 10/2005 | Morris |
| D511,037 | S | 11/2005 | Della Valle |
| D511,610 | S | 11/2005 | Della Valle |
| D512,208 | S | 12/2005 | Kubo et al. |
| D513,836 | S | 1/2006 | Magro et al. |
| D515,297 | S | 2/2006 | Acheson |
| D522,740 | S | 6/2006 | Dojan et al. |
| 7,086,179 | B2 | 8/2006 | Dojan et al. |
| 7,086,180 | B2 | 8/2006 | Dojan et al. |
| 7,100,310 | B2 | 9/2006 | Foxen et al. |
| D532,599 | S | 11/2006 | Dojan et al. |
| D532,600 | S | 11/2006 | Dojan et al. |
| 7,141,131 | B2 | 11/2006 | Foxen et al. |
| D534,345 | S | 1/2007 | Dojan et al. |
| D538,017 | S | 3/2007 | McClaskie |
| D539,517 | S | 4/2007 | Issler |
| D540,517 | S | 4/2007 | McClaskie |
| D547,541 | S | 7/2007 | Schindler et al. |
| D548,435 | S | 8/2007 | McClaskie |
| D549,934 | S | 9/2007 | Horne et al. |
| D551,831 | S | 10/2007 | Romero-Sanchez |
| D551,833 | S | 10/2007 | Feller |
| D553,332 | S | 10/2007 | McClaskie |
| D556,982 | S | 12/2007 | Harper et al. |
| D560,883 | S | 2/2008 | McClaskie |
| D561,433 | S | 2/2008 | McClaskie |
| D564,736 | S | 3/2008 | Belley et al. |
| D566,934 | S | 4/2008 | Della Valle |
| D568,035 | S | 5/2008 | McClaskie |
| D570,581 | S | 6/2008 | Polegato Moretti |
| D571,085 | S | 6/2008 | McClaskie |
| D571,987 | S | 7/2008 | Della Valle |
| D572,440 | S | 7/2008 | Polegato Moretti |
| D572,441 | S | 7/2008 | Moretti |
| D572,442 | S | 7/2008 | Polegato Moretti |
| 7,401,420 | B2 | 7/2008 | Dojan et al. |
| D576,380 | S | 9/2008 | Morris |
| D576,780 | S | 9/2008 | Jolicoeur |
| 7,441,419 | B1 | 10/2008 | Dollyhite et al. |
| D586,090 | S | 2/2009 | Turner et al. |
| 7,484,318 | B2 | 2/2009 | Finkelstein |
| D590,140 | S | 4/2009 | Della Valle |
| D591,494 | S | 5/2009 | Jolicoeur |
| D591,938 | S | 5/2009 | Beauger |
| D595,489 | S | 7/2009 | McClaskie |
| D596,384 | S | 7/2009 | Andersen et al. |
| 7,555,848 | B2 | 7/2009 | Aveni et al. |
| 7,556,846 | B2 | 7/2009 | Dojan et al. |
| 7,559,107 | B2 | 7/2009 | Dojan et al. |
| 7,562,469 | B2 | 7/2009 | Dojan |
| D597,286 | S | 8/2009 | Della Valle et al. |
| D597,293 | S | 8/2009 | Banik et al. |
| D599,091 | S | 9/2009 | Della Valle et al. |
| D599,993 | S | 9/2009 | Issler |
| D601,333 | S | 10/2009 | McClaskie |
| D603,151 | S | 11/2009 | Roundhouse |
| D604,033 | S | 11/2009 | Feldman |
| D605,837 | S | 12/2009 | Andersen et al. |
| D607,190 | S | 1/2010 | McClaskie |
| D608,082 | S | 1/2010 | Lemaster |
| D608,997 | S | 2/2010 | Loverin |
| 7,662,468 | B2 | 2/2010 | Bainbridge |
| 7,665,230 | B2 | 2/2010 | Dojan et al. |
| D610,788 | S | 3/2010 | Della Valle |
| D611,233 | S | 3/2010 | Della Valle et al. |
| 7,676,955 | B2 | 3/2010 | Dojan et al. |
| 7,676,956 | B2 | 3/2010 | Dojan et al. |
| 7,703,219 | B2 | 4/2010 | Beck |
| D616,183 | S | 5/2010 | Skaja |
| D616,640 | S | 6/2010 | Werman |
| D617,540 | S | 6/2010 | McClaskie |
| D620,695 | S | 8/2010 | McCarthy et al. |
| D624,291 | S | 9/2010 | Henderson |
| D625,499 | S | 10/2010 | Della Valle et al. |
| 7,805,859 | B2 | 10/2010 | Finkelstein |
| D626,321 | S | 11/2010 | Cagner |
| 7,841,108 | B2 | 11/2010 | Johnson et al. |
| D629,185 | S | 12/2010 | Vico et al. |
| D631,237 | S | 1/2011 | Genuin et al. |
| D631,646 | S | 2/2011 | Muller |
| D633,286 | S | 3/2011 | Skaja |
| D633,287 | S | 3/2011 | Skaja |
| D636,156 | S | 4/2011 | Della Valle et al. |
| D636,571 | S | 4/2011 | Avar |
| D637,803 | S | 5/2011 | Alvear et al. |
| D639,036 | S | 6/2011 | Delavaldene et al. |
| D639,535 | S | 6/2011 | Eggert et al. |
| 8,079,159 | B1 | 12/2011 | Rosa |
| D661,073 | S | 6/2012 | Della Valle et al. |
| D663,516 | S | 7/2012 | Della Valle et al. |
| D668,845 | S | 10/2012 | Huynh |
| D668,858 | S | 10/2012 | Shaffer |
| D671,305 | S | 11/2012 | Escobar |
| D671,306 | S | 11/2012 | Tzenos |
| 8,302,233 | B2 | 11/2012 | Spanks et al. |
| D674,171 | S | 1/2013 | Bramani et al. |
| D680,710 | S | 4/2013 | Sundberg |
| D683,119 | S | 5/2013 | Shyllon |
| D690,490 | S | 10/2013 | Riddell |
| D693,553 | S | 11/2013 | McClaskie |
| D694,501 | S | 12/2013 | Miner |
| D696,501 | S | 12/2013 | Miner |
| D696,502 | S | 12/2013 | Miner |
| D696,503 | S | 12/2013 | Miner |
| D697,297 | S | 1/2014 | McClaskie |
| 8,657,979 | B2 | 2/2014 | Dojan et al. |
| 8,671,591 | B2 | 3/2014 | Brown |
| D702,031 | S | 4/2014 | Nakano |
| D707,934 | S | 7/2014 | Petrie |
| D709,680 | S | 7/2014 | Herath |
| D711,081 | S | 8/2014 | Miner |

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| D713,623 | S | 9/2014 | Lo |
| D719,327 | S | 12/2014 | Lindner et al. |
| D721,474 | S | 1/2015 | Miner |
| D722,220 | S | 2/2015 | Miner |
| D722,425 | S | 2/2015 | Cin |
| 8,961,844 | B2 | 2/2015 | Baghdadi et al. |
| D727,608 | S | 4/2015 | Steven et al. |
| 9,009,991 | B2 | 4/2015 | Sills |
| D730,638 | S | 6/2015 | Christensen et al. |
| D731,763 | S | 6/2015 | Solstad |
| D731,769 | S | 6/2015 | Raysse |
| D734,600 | S | 7/2015 | Gargiulo |
| D734,930 | S | 7/2015 | Bikowski |
| 9,078,493 | B2 | 7/2015 | Bradford |
| D737,548 | S | 9/2015 | Levy |
| D738,078 | S | 9/2015 | Raysse |
| D738,602 | S | 9/2015 | Qin |
| D739,131 | S | 9/2015 | Del Biondi |
| D739,132 | S | 9/2015 | Del Biondi |
| 9,125,454 | B2 | 9/2015 | De Roode et al. |
| D740,003 | S | 10/2015 | Herath |
| D740,004 | S | 10/2015 | Hoellmueller et al. |
| D746,559 | S | 1/2016 | Besanceney et al. |
| D753,381 | S | 4/2016 | Ostapenko |
| D756,085 | S | 5/2016 | Spring |
| D756,620 | S | 5/2016 | Boys |
| D758,056 | S | 6/2016 | Galway et al. |
| D759,358 | S | 6/2016 | Cullen |
| D765,361 | S | 9/2016 | Johnsongiflin |
| D765,362 | S | 9/2016 | Kuerbis |
| D767,263 | S | 9/2016 | Reiser |
| D773,161 | S | 12/2016 | Teteriatnikov |
| D773,790 | S | 12/2016 | Raysse |
| D773,791 | S | 12/2016 | Raysse |
| D776,410 | S | 1/2017 | Galway et al. |
| D781,543 | S | 3/2017 | Raysse |
| D782,793 | S | 4/2017 | Truelsen |
| D783,247 | S | 4/2017 | McMillan |
| D783,974 | S | 4/2017 | McMillan |
| 9,610,746 | B2 | 4/2017 | Wardlaw et al. |
| D790,172 | S | 6/2017 | Hatfield |
| D790,179 | S | 6/2017 | McMillan |
| D790,181 | S | 6/2017 | Parrett |
| 9,682,522 | B2 | 6/2017 | Baghdadi et al. |
| D790,817 | S | 7/2017 | Perkins et al. |
| D791,452 | S | 7/2017 | Dombrow |
| D792,067 | S | 7/2017 | Raysse |
| D793,053 | S | 8/2017 | Cin |
| D793,680 | S | 8/2017 | Lee |
| D793,687 | S | 8/2017 | Cin |
| D793,688 | S | 8/2017 | Avar et al. |
| D794,289 | S | 8/2017 | Kanata |
| D794,300 | S | 8/2017 | Rosen |
| 9,743,705 | B2 | 8/2017 | Thomas et al. |
| D796,170 | S | 9/2017 | Raysse |
| D796,172 | S | 9/2017 | Henrichot et al. |
| D797,417 | S | 9/2017 | Lee et al. |
| D797,418 | S | 9/2017 | Lee et al. |
| D797,420 | S | 9/2017 | Nykreim |
| D798,553 | S | 10/2017 | Lee |
| D799,178 | S | 10/2017 | James |
| D799,183 | S | 10/2017 | Weeks |
| D800,433 | S | 10/2017 | Kuerbis |
| D801,011 | S | 10/2017 | Del Biondi et al. |
| D801,015 | S | 10/2017 | Gibson |
| 9,775,769 | B2 | 10/2017 | Brown et al. |
| 9,781,970 | B2 | 10/2017 | Wardlaw et al. |
| 9,781,974 | B2 | 10/2017 | Reinhardt et al. |
| 9,788,598 | B2 | 10/2017 | Reinhardt et al. |
| 9,788,606 | B2 | 10/2017 | Reinhardt et al. |
| 9,795,186 | B2 | 10/2017 | Reinhardt et al. |
| D801,653 | S | 11/2017 | Small |
| D802,261 | S | 11/2017 | Stillwagon |
| D802,270 | S | 11/2017 | Kirschner |
| 9,820,528 | B2 | 11/2017 | Reinhardt et al. |
| D805,745 | S | 12/2017 | Link |
| 9,849,645 | B2 | 12/2017 | Wardlaw et al. |
| D808,143 | S | 1/2018 | Negri |
| D809,755 | S | 2/2018 | Stavseng et al. |
| D809,756 | S | 2/2018 | Stavseng et al. |
| D809,761 | S | 2/2018 | Parrett |
| D810,407 | S | 2/2018 | DeAlmeida |
| D811,062 | S | 2/2018 | Teague |
| 9,884,947 | B2 | 2/2018 | Prissok et al. |
| D811,714 | S | 3/2018 | Ngene |
| D812,882 | S | 3/2018 | Jenkins et al. |
| D813,508 | S | 3/2018 | Weeks |
| 9,907,365 | B2 | 3/2018 | Downing et al. |
| 9,926,423 | B2 | 3/2018 | Baghdadi |
| D814,752 | S | 4/2018 | Ormsby |
| 9,930,928 | B2 | 4/2018 | Whiteman et al. |
| D816,958 | S | 5/2018 | Cin et al. |
| 9,961,961 | B2 | 5/2018 | Smith |
| 9,968,157 | B2 | 5/2018 | Wardlaw et al. |
| D819,307 | S | 6/2018 | Wurtz |
| D819,310 | S | 6/2018 | Lashmore |
| D819,317 | S | 6/2018 | Wurtz |
| D819,942 | S | 6/2018 | Cin et al. |
| D823,583 | S | 7/2018 | Petrie |
| 10,039,342 | B2 | 8/2018 | Reinhardt et al. |
| D827,258 | S | 9/2018 | Pina |
| D828,686 | S | 9/2018 | Hoellmueller et al. |
| D828,984 | S | 9/2018 | Gibson |
| D831,315 | S | 10/2018 | Mahoney |
| D831,317 | S | 10/2018 | Jenkins et al. |
| 10,098,411 | B2 | 10/2018 | Hoffer et al. |
| 10,098,412 | B2 | 10/2018 | Hoffer et al. |
| D833,129 | S | 11/2018 | Fudalik |
| D834,801 | S | 12/2018 | Ceniceros |
| 10,149,512 | B1 | 12/2018 | Wurtz |
| D836,892 | S | 1/2019 | Jenkins et al. |
| D836,893 | S | 1/2019 | Bischoff et al. |
| D840,135 | S | 2/2019 | Dombrow |
| D840,136 | S | 2/2019 | Herath et al. |
| D840,137 | S | 2/2019 | Herath et al. |
| 10,226,099 | B2 | 3/2019 | Bischoff |
| 10,227,467 | B2 | 3/2019 | Baghdadi |
| D844,952 | S | 4/2019 | Taylor |
| D844,953 | S | 4/2019 | Chen et al. |
| D846,255 | S | 4/2019 | Khalife |
| D846,256 | S | 4/2019 | Khalife |
| 10,259,183 | B2 | 4/2019 | Wardlaw et al. |
| D847,475 | S | 5/2019 | Khalife |
| D847,480 | S | 5/2019 | Khalife |
| D848,715 | S | 5/2019 | Holmes |
| D849,382 | S | 5/2019 | Jenkins et al. |
| 10,279,581 | B2 | 5/2019 | Ashcroft et al. |
| D850,083 | S | 6/2019 | Jenkins et al. |
| D850,766 | S | 6/2019 | Girard et al. |
| D851,889 | S | 6/2019 | Dobson et al. |
| D852,475 | S | 7/2019 | Hoellmueller |
| D852,476 | S | 7/2019 | Hartmann |
| D853,094 | S | 7/2019 | Young |
| D853,099 | S | 7/2019 | Parrett |
| D853,690 | S | 7/2019 | Taylor |
| D853,691 | S | 7/2019 | Coonrod et al. |
| D853,699 | S | 7/2019 | Coonrod et al. |
| D854,288 | S | 7/2019 | Raasch |
| D854,294 | S | 7/2019 | McMillan |
| D854,296 | S | 7/2019 | Hardman |
| D854,297 | S | 7/2019 | Hardman |
| D854,298 | S | 7/2019 | Nethongkome |
| D855,297 | S | 8/2019 | Motoki |
| D855,953 | S | 8/2019 | Girard et al. |
| D856,650 | S | 8/2019 | Schultze |
| D857,360 | S | 8/2019 | Hardy |
| D858,051 | S | 9/2019 | Mace |
| D858,960 | S | 9/2019 | Mace |
| D858,961 | S | 9/2019 | Mace |
| D859,801 | S | 9/2019 | Jenkins et al. |
| D860,616 | S | 9/2019 | Cran |
| D862,047 | S | 10/2019 | Patillon et al. |
| D862,051 | S | 10/2019 | Goussev et al. |
| D864,540 | S | 10/2019 | Rosen |

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | |
|---|---|---|---|---|
| D866,137 | S | | 11/2019 | Kanata |
| D866,144 | S | | 11/2019 | Kanata |
| D867,734 | S | | 11/2019 | Dieudonne |
| D867,737 | S | | 11/2019 | Kanata |
| D868,440 | S | | 12/2019 | Dieudonne |
| D869,833 | S | | 12/2019 | Hartmann |
| D870,433 | S | | 12/2019 | Hartmann |
| D871,731 | S | | 1/2020 | Behr |
| D871,732 | S | | 1/2020 | Behr |
| D872,436 | S | | 1/2020 | Matthews |
| D872,437 | S | | 1/2020 | Matthews |
| D872,438 | S | | 1/2020 | Matthews |
| D873,545 | S | | 1/2020 | Hartmann |
| D874,098 | S | | 2/2020 | Hartmann |
| D874,099 | S | | 2/2020 | Hartmann |
| D874,107 | S | | 2/2020 | Girard |
| D874,801 | S | | 2/2020 | Hartmann |
| D875,358 | S | | 2/2020 | Vella |
| D875,360 | S | | 2/2020 | Vella |
| D875,361 | S | | 2/2020 | Girard |
| D875,362 | S | | 2/2020 | Girard |
| D875,383 | S | | 2/2020 | Mace |
| D876,052 | S | | 2/2020 | Hartmann |
| D876,055 | S | | 2/2020 | Hartmann |
| D876,063 | S | | 2/2020 | Matthews |
| D876,069 | S | | 2/2020 | Mace |
| D876,757 | S | | 3/2020 | Hartmann |
| D876,776 | S | | 3/2020 | Matthews |
| D876,791 | S | | 3/2020 | Gridley |
| D877,465 | S | | 3/2020 | Hartmann |
| D877,466 | S | | 3/2020 | Hartmann |
| D877,468 | S | | 3/2020 | Reyes |
| D878,015 | S | | 3/2020 | Hartmann et al. |
| D878,021 | S | | 3/2020 | Mace |
| D878,025 | S | | 3/2020 | Hartmann |
| D879,424 | S | | 3/2020 | Hartmann et al. |
| D879,430 | S | | 3/2020 | Gerig |
| D880,126 | S | | 4/2020 | Powers |
| D880,822 | S | | 4/2020 | Hartmann et al. |
| D880,825 | S | | 4/2020 | Garcia |
| D882,219 | S | | 4/2020 | Hartmann |
| D882,222 | S | | 4/2020 | Garcia |
| D882,227 | S | | 4/2020 | Braun et al. |
| D883,620 | S | | 5/2020 | Gridley |
| D883,621 | S | | 5/2020 | Garcia |
| D885,719 | S | | 6/2020 | Garcia |
| D885,721 | S | | 6/2020 | Williams |
| D885,722 | S | | 6/2020 | Le |
| D885,724 | S | | 6/2020 | Girard et al. |
| D887,112 | S | | 6/2020 | Mace |
| D887,113 | S | | 6/2020 | Girard et al. |
| D887,686 | S | | 6/2020 | Sogorb |
| D887,691 | S | | 6/2020 | Vella |
| D887,693 | S | | 6/2020 | Hartmann et al. |
| D889,788 | S | | 7/2020 | Yoshinaga et al. |
| D889,789 | S | | 7/2020 | Jenkins et al. |
| D889,815 | S | | 7/2020 | Mace |
| D890,485 | S | | 7/2020 | Perrault et al. |
| D890,488 | S | | 7/2020 | Vella |
| D890,496 | S | | 7/2020 | Le |
| D890,497 | S | | 7/2020 | Vella |
| D891,051 | S | | 7/2020 | Smith et al. |
| D891,053 | S | | 7/2020 | Dance |
| D891,054 | S | | 7/2020 | Dance |
| D891,738 | S | | 8/2020 | Garcia |
| D892,480 | S | | 8/2020 | Mace |
| D893,837 | S | | 8/2020 | Ni et al. |
| D893,838 | S | | 8/2020 | Le |
| D893,843 | S | | 8/2020 | Hartmann |
| D893,855 | S | | 8/2020 | Gridley |
| D894,572 | S | | 9/2020 | Lopez Cali |
| D896,485 | S | | 9/2020 | Williams |
| D902,539 | S | | 11/2020 | Mace |
| D903,252 | S | | 12/2020 | Vella |
| D905,942 | S | | 12/2020 | Dance |
| D906,653 | S | | 1/2021 | Le |
| D907,344 | S | | 1/2021 | Hartmann |
| D907,903 | S | | 1/2021 | Garcia |
| D909,723 | S | | 2/2021 | Girard et al. |
| D909,739 | S | | 2/2021 | Toelle |
| D910,290 | S | | 2/2021 | Girard et al. |
| D910,291 | S | | 2/2021 | Zeng |
| D911,682 | S | | 3/2021 | Girard et al. |
| D911,683 | S | | 3/2021 | Girard et al. |
| D913,647 | S | | 3/2021 | Garcia |
| D913,654 | S | | 3/2021 | Dance |
| D916,444 | S | * | 4/2021 | Callow ..... D2/947 |
| D916,445 | S | | 4/2021 | Vella |
| D920,644 | S | | 6/2021 | Chipman |
| D920,645 | S | | 6/2021 | Chipman |
| D921,342 | S | | 6/2021 | Girard et al. |
| D922,042 | S | | 6/2021 | Girard et al. |
| D922,743 | S | | 6/2021 | Hardman |
| D928,479 | S | | 8/2021 | Le et al. |
| D930,961 | S | | 9/2021 | Le |
| D943,895 | S | * | 2/2022 | Coonrod ..... D2/947 |
| D944,504 | S | * | 3/2022 | Dowling ..... D2/947 |
| 2003/0046831 | A1 | | 3/2003 | Westin |
| 2003/0115691 | A1 | | 6/2003 | Mukherjee et al. |
| 2003/0208925 | A1 | | 11/2003 | Pan |
| 2004/0032042 | A1 | | 2/2004 | Chi |
| 2004/0148805 | A1 | | 8/2004 | Morris |
| 2005/0022424 | A1 | | 2/2005 | Held |
| 2005/0110183 | A1 | | 5/2005 | Buchel |
| 2005/0188562 | A1 | | 9/2005 | Clarke et al. |
| 2005/0193592 | A1 | | 9/2005 | Dua et al. |
| 2005/0229431 | A1 | | 10/2005 | Gerlin |
| 2006/0010717 | A1 | | 1/2006 | Finkelstein |
| 2006/0021252 | A1 | | 2/2006 | Throneburg et al. |
| 2006/0026863 | A1 | | 2/2006 | Liu |
| 2006/0130363 | A1 | | 6/2006 | Hottinger |
| 2006/0175036 | A1 | | 8/2006 | Guerrero |
| 2006/0277788 | A1 | | 12/2006 | Fujii |
| 2007/0011914 | A1 | | 1/2007 | Keen et al. |
| 2007/0094892 | A1 | | 5/2007 | Craig et al. |
| 2008/0005936 | A1 | | 1/2008 | Chiu |
| 2008/0066341 | A1 | | 3/2008 | Hottinger |
| 2008/0110053 | A1 | | 5/2008 | Dominquez et al. |
| 2008/0148599 | A1 | | 6/2008 | Collins |
| 2008/0277837 | A1 | | 11/2008 | Liu et al. |
| 2008/0307679 | A1 | | 12/2008 | Chiang et al. |
| 2009/0013558 | A1 | | 1/2009 | Hazenberg et al. |
| 2009/0313853 | A1 | | 12/2009 | Tadin |
| 2010/0005684 | A1 | | 1/2010 | Nishiwaki et al. |
| 2010/0242309 | A1 | | 9/2010 | McCann |
| 2011/0099845 | A1 | | 5/2011 | Miller |
| 2011/0107622 | A1 | | 5/2011 | Schwirian |
| 2011/0131832 | A1 | | 6/2011 | Brandt |
| 2011/0232135 | A1 | | 9/2011 | Dean et al. |
| 2011/0252670 | A1 | | 10/2011 | Smith |
| 2012/0005920 | A1 | | 1/2012 | Alvear et al. |
| 2012/0023784 | A1 | | 2/2012 | Goldston et al. |
| 2012/0186107 | A1 | | 7/2012 | Crary et al. |
| 2012/0204451 | A1 | | 8/2012 | De Roode et al. |
| 2012/0210602 | A1 | | 8/2012 | Brown |
| 2013/0126075 | A1 | | 5/2013 | Jiang |
| 2013/0145653 | A1 | | 6/2013 | Bradford |
| 2013/0227858 | A1 | | 9/2013 | James |
| 2013/0247415 | A1 | | 9/2013 | Kohatsu |
| 2013/0291409 | A1 | | 11/2013 | Reinhardt et al. |
| 2014/0068879 | A1 | | 3/2014 | Sussmann |
| 2014/0137434 | A1 | | 5/2014 | Craig |
| 2014/0150292 | A1 | | 6/2014 | Podhajny et al. |
| 2014/0151918 | A1 | | 6/2014 | Hartmann |
| 2014/0223673 | A1 | | 8/2014 | Wardlaw et al. |
| 2014/0223776 | A1 | | 8/2014 | Wardlaw et al. |
| 2014/0223777 | A1 | | 8/2014 | Whiteman et al. |
| 2014/0243442 | A1 | | 8/2014 | Coles et al. |
| 2014/0310986 | A1 | | 10/2014 | Tamm et al. |
| 2015/0096203 | A1 | | 4/2015 | Brown et al. |
| 2015/0196085 | A1 | | 7/2015 | Westmoreland et al. |
| 2015/0250256 | A1 | | 9/2015 | Podhajny |
| 2015/0257481 | A1 | | 9/2015 | Campos, II et al. |
| 2015/0342296 | A1 | | 12/2015 | Skaja et al. |

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| 2015/0344661 | A1 | 12/2015 | Spies et al. |
| 2015/0351493 | A1 | 12/2015 | Ashcroft et al. |
| 2016/0007676 | A1 | 1/2016 | Leimer et al. |
| 2016/0037859 | A1 | 2/2016 | Smith et al. |
| 2016/0044992 | A1 | 2/2016 | Reinhardt et al. |
| 2016/0128426 | A1 | 5/2016 | Reinhardt et al. |
| 2016/0150855 | A1 | 6/2016 | Peyton |
| 2016/0227876 | A1 | 8/2016 | Le et al. |
| 2016/0278481 | A1 | 9/2016 | Le et al. |
| 2016/0295955 | A1 | 10/2016 | Wardlaw et al. |
| 2016/0302527 | A1 | 10/2016 | Meir |
| 2016/0311993 | A1 | 10/2016 | Zhang et al. |
| 2016/0374428 | A1 | 12/2016 | Kormann et al. |
| 2017/0006958 | A1 | 1/2017 | Jeong |
| 2017/0020228 | A1 | 1/2017 | Scofield et al. |
| 2017/0253710 | A1 | 9/2017 | Smith et al. |
| 2017/0259474 | A1 | 9/2017 | Holmes et al. |
| 2017/0303635 | A1 | 10/2017 | Kazarian |
| 2017/0341325 | A1 | 11/2017 | Le et al. |
| 2017/0341326 | A1 | 11/2017 | Holmes et al. |
| 2017/0341327 | A1 | 11/2017 | Le et al. |
| 2017/0354568 | A1 | 12/2017 | Brown et al. |
| 2018/0000197 | A1 | 1/2018 | Wardlaw et al. |
| 2018/0035755 | A1 | 2/2018 | Reinhardt et al. |
| 2018/0055137 | A1 | 3/2018 | Fraser et al. |
| 2018/0055144 | A1 | 3/2018 | Bischoff |
| 2018/0064210 | A1 | 3/2018 | Turner et al. |
| 2018/0077997 | A1 | 3/2018 | Hoffer et al. |
| 2018/0092432 | A1 | 4/2018 | Hoffer et al. |
| 2018/0100049 | A1 | 4/2018 | Prissok et al. |
| 2018/0103719 | A1 | 4/2018 | Chen |
| 2018/0103725 | A1 | 4/2018 | Chen |
| 2018/0132487 | A1 | 5/2018 | Kormann et al. |
| 2018/0153252 | A1 | 6/2018 | Archer et al. |
| 2018/0153264 | A1 | 6/2018 | Amos et al. |
| 2018/0154598 | A1 | 6/2018 | Kurtz et al. |
| 2018/0168281 | A1 | 6/2018 | Case et al. |
| 2018/0199667 | A1 | 7/2018 | Wang |
| 2018/0206591 | A1 | 7/2018 | Whiteman et al. |
| 2018/0206599 | A1 | 7/2018 | Amos et al. |
| 2018/0213886 | A1 | 8/2018 | Connell et al. |
| 2018/0235310 | A1 | 8/2018 | Wardlaw et al. |
| 2018/0271211 | A1 | 9/2018 | Perrault et al. |
| 2018/0271213 | A1 | 9/2018 | Perrault et al. |
| 2018/0289108 | A1 | 10/2018 | Hoffer et al. |
| 2018/0296821 | A1 | 10/2018 | Ho |
| 2018/0303197 | A1 | 10/2018 | Chen et al. |
| 2018/0303198 | A1 | 10/2018 | Reinhardt et al. |
| 2018/0317591 | A1 | 11/2018 | Hollinger |
| 2018/0317600 | A1 | 11/2018 | Campos et al. |
| 2018/0317603 | A1 | 11/2018 | Gronlykke |
| 2018/0338575 | A1 | 11/2018 | Elder et al. |
| 2018/0352900 | A1 | 12/2018 | Hartmann et al. |
| 2019/0029363 | A1 | 1/2019 | Lucca |
| 2019/0069633 | A1 | 3/2019 | Lucca |
| 2019/0069634 | A1 | 3/2019 | Lucca |
| 2019/0126580 | A1 | 5/2019 | Paulson et al. |
| 2019/0133251 | A1 | 5/2019 | Hartmann et al. |
| 2019/0150564 | A1 | 5/2019 | Bischoff |
| 2019/0216167 | A1 | 7/2019 | Hoffer et al. |
| 2019/0216168 | A1 | 7/2019 | Hoffer et al. |
| 2019/0223539 | A1 | 7/2019 | Hoffer et al. |
| 2019/0223550 | A1 | 7/2019 | Levy |
| 2019/0223551 | A1 | 7/2019 | Hoffer et al. |
| 2019/0269200 | A1 | 9/2019 | Tseng |
| 2019/0283394 | A1 | 9/2019 | Ashcroft et al. |
| 2020/0008518 | A1 | 1/2020 | Souyri et al. |
| 2020/0060383 | A1 | 2/2020 | Le |
| 2020/0077741 | A1 | 3/2020 | Hurd |
| 2020/0093221 | A1 | 3/2020 | Caldwell et al. |
| 2020/0107608 | A1 | 4/2020 | Uzzeni |
| 2020/0170342 | A1 | 6/2020 | Uzzeni |
| 2021/0022443 | A1 | 1/2021 | Hoffer et al. |

FOREIGN PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| CN | 101484033 | A | 7/2009 |
| CN | 201767147 | U | 3/2011 |
| CN | 102366199 | A | 3/2012 |
| CN | 103298362 | A | 9/2013 |
| CN | 103717658 | A | 4/2014 |
| CN | 103976505 | A | 8/2014 |
| CN | 104470393 | A | 3/2015 |
| CN | 105982390 | A | 10/2016 |
| CN | 107048590 | A | 8/2017 |
| CN | 107849286 | A | 3/2018 |
| CN | 207186082 | U | 4/2018 |
| CN | 108366644 | A | 8/2018 |
| DE | 102010046278 | A1 | 2/2011 |
| DE | 102011108744 | A1 | 1/2013 |
| EM | 001286116-0005 | | 7/2011 |
| EM | 002219956-0024 | | 4/2013 |
| EM | 002772764-0015 | | 9/2015 |
| EM | 003039619-0034 | | 3/2016 |
| EM | 003330174-0003 | | 3/2016 |
| EM | 003165984-0005 | | 6/2016 |
| EM | 003315555-0001 | | 7/2016 |
| EM | 003316389-0001 | | 7/2016 |
| EM | 003344076-0002 | | 8/2016 |
| EM | 003362672-0001 | | 9/2016 |
| EM | 003522580-0029 | | 12/2016 |
| EM | 003649060-0005 | | 1/2017 |
| EM | 003649540-0001 | | 1/2017 |
| EM | 003718311-0019 | | 1/2017 |
| EM | 003761089-0028 | | 2/2017 |
| EM | 003761113-0025 | | 2/2017 |
| EM | 004352755-0004 | | 9/2017 |
| EM | 004363935-0008 | | 9/2017 |
| EM | 004366326-0001 | | 9/2017 |
| EM | 004386571-0002 | | 10/2017 |
| EM | 004543882-0008 | | 12/2017 |
| EM | 004675411-0006 | | 1/2018 |
| EM | 004812501-0004 | | 3/2018 |
| EM | 005841939-0004 | | 3/2018 |
| EM | 005191004-0010 | | 4/2018 |
| EM | 005243227-0002 | | 4/2018 |
| EM | 005260023-0003 | | 5/2018 |
| EM | 005278413-0002 | | 5/2018 |
| EM | 005320371-0002 | | 6/2018 |
| EM | 005612025-0001 | | 8/2018 |
| EM | 006335345-0003 | | 3/2019 |
| EP | 0383685 | A1 | 8/1990 |
| EP | 1738889 | A1 | 1/2007 |
| EP | 1979401 | B1 | 9/2010 |
| EP | 2649896 | A2 | 10/2013 |
| EP | 2786670 | A1 | 10/2014 |
| EP | 2984956 | A1 | 2/2016 |
| EP | 3027377 | A1 | 6/2016 |
| EP | 3041892 | A1 | 7/2016 |
| EP | 2649896 | B1 | 10/2016 |
| EP | 3078287 | A1 | 10/2016 |
| EP | 3114959 | A1 | 1/2017 |
| EP | 3186306 | A1 | 7/2017 |
| EP | 2467037 | B1 | 10/2017 |
| EP | 2872309 | B1 | 11/2017 |
| EP | 3289907 | A1 | 3/2018 |
| EP | 3308663 | A1 | 4/2018 |
| EP | 3338581 | A1 | 6/2018 |
| EP | 3352607 | A1 | 8/2018 |
| EP | 3352608 | A1 | 8/2018 |
| EP | 3352610 | A1 | 8/2018 |
| EP | 3352611 | A1 | 8/2018 |
| EP | 3352612 | A1 | 8/2018 |
| EP | 3352615 | A1 | 8/2018 |
| EP | 3338984 | A3 | 9/2018 |
| EP | 3248770 | B1 | 5/2019 |
| EP | 3476237 | A1 | 5/2019 |
| EP | 3386334 | B1 | 7/2019 |
| FR | 2709047 | A1 | 2/1995 |
| JP | 10248610 | A | 9/1998 |
| JP | 1146806 | | 2/1999 |
| JP | 2000316606 | A | 11/2000 |
| JP | 2002535468 | A | 10/2002 |

(56) **References Cited**

FOREIGN PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| JP | 2004161987 | A | 6/2004 |
| JP | 2007185353 | A | 7/2007 |
| JP | 2011177206 | A | 9/2011 |
| JP | 2014151210 | A | 8/2014 |
| JP | 2015077475 | A | 4/2015 |
| KR | 1020140025298 | A | 3/2014 |
| KR | 101550222 | B1 | 9/2015 |
| WO | 9929203 | A1 | 6/1999 |
| WO | 0078171 | A1 | 12/2000 |
| WO | 0101806 | A1 | 1/2001 |
| WO | 2005066250 | A1 | 7/2005 |
| WO | 2006066256 | A2 | 6/2006 |
| WO | 2007024523 | A1 | 3/2007 |
| WO | 2007082838 | A1 | 7/2007 |
| WO | 20070139832 | A2 | 12/2007 |
| WO | 2008003375 | A1 | 1/2008 |
| WO | 2010010010 | A1 | 1/2010 |
| WO | 2016030026 | A1 | 3/2016 |
| WO | 2016030333 | A1 | 3/2016 |
| WO | 2017053650 | A1 | 3/2017 |
| WO | 2017053654 | A1 | 3/2017 |
| WO | 2017053658 | A1 | 3/2017 |
| WO | 2017053665 | A1 | 3/2017 |
| WO | 2017053669 | A1 | 3/2017 |
| WO | 2017053674 | A1 | 3/2017 |
| WO | 2017097315 | A1 | 6/2017 |
| WO | 2018099833 | A1 | 6/2018 |
| WO | 2018103811 | A1 | 6/2018 |
| WO | DM102274-006 | | 7/2018 |
| WO | 2018169535 | A1 | 9/2018 |
| WO | 2018169537 | A1 | 9/2018 |
| WO | 2018175734 | A1 | 9/2018 |
| WO | DM103418-013 | | 10/2018 |
| WO | 2019029781 | A1 | 2/2019 |
| WO | 2019073607 | A1 | 4/2019 |
| WO | 2019101339 | A1 | 5/2019 |
| WO | 2019150492 | A1 | 8/2019 |

OTHER PUBLICATIONS

Nike Addresses Joyride Comparisons to Puma's Jamming Tech, SoleCollector.com, By Riley Jones, Aug. 7, 2019, 4 pages, [online], [site visited Sep. 4, 2019]. <URL: https://solecollector.com/news/2019/08/nike-addresses-joyride-comprisons-puma-jamming> (Year: 2019).

Nike Unveils Joyride Running Shoes in Latest Cushioning Experiment, SI.com, By Chris Chavez, Jul. 25, 2019, 5 pages, [online], [site visited Sep. 4, 2019].<URL: https://www.si.com/edge/2019/07/25/nike-jpyride-technology-sushioning-beaded-tpe-foam-rubber-details> (Year: 2019).

Puma Jamming—NRGY Beeds Shoe Review, YouTube.com, Tiffany Beers, Published on Jul. 21, 2018, 1 page, [online], [site visited Sep. 4, 2019]. <URL: https://www.youtube.com/watch?v=4ZS7NDY0RNc> (Year: 2018).

Second Office Action from corresponding Chinese Patent Application No. 201780093796.1 dated Aug. 25, 2021 (11 pages) (English translation included).

Office Action from corresponding Chinese Patent Application No. 201780093796.1, dated Jan. 27, 2021 (14 pages) (English translation included).

Adidas Mega Soft Cell, BX Sports's Weblog, Published on Aug. 6, 2010, [online], [site visited Jul. 29, 2019]. <URL: https://bx97.wordpress.com/2010/08/06/adidas-mega-soft-cell-2/> (Year: 2010).

Small beads for long distances, BASF, Published on Aug. 13, 2013, [online], [site visited Aug. 1, 2019]. <URL: https://www.basf.com/global/documents/en/news-and-media/science-around-us/small-beads-for-long-distances/BASF_Science_around_us_Infinergy.pdf> (Year: 2013).

Zaleski, Andrew, "Who's Winning the 3D-Printed Shoe Race?" Fortune.com; Published on Dec. 15, 2015 [online] [site visited Aug. 6, 2019] <URL: https://fortune.com/2015/12/15/3d-printed-shoe-race/> (Year 2015), pp. 1-12.

Schlemmer, Zack, "New Balance Trailbuster Fresh Foam Drops in Two Monochrome Colorways," Sneaker News; Published on Apr. 22, 2017 [online] [site visited Aug. 6, 2019] <URL: https://sneakernews.com/2017/04/22/new-balance-trailbuster-fresh-foam-drops-black-white/>(Year 2017), pp. 1-8.

International Search Report (with English translation) and Written Opinion issued in International Application No. PCT/EP2015/002456, dated Oct. 25, 2016, 17 pages.

Adidas' FutureCraft Loop Sneaker Talks a Big Recycling Game, Gizmodo, Published on Apr. 17, 2019, 10 pages, [online], [site visited Sep. 5, 2019]. <URL: https://gizmodo.com/adidas-futurecraft-loop-sneaker-talks-a-big-recycling-1834086618> (Year: 2019).

Ben Felderstein "Puma To Debut New JAMMING Cushion On Nov. 9" © 2007-2019 Sneaker News Inc, Nov. 7, 2017, 7 pages, [online], [site visited Jul. 23, 2019] <URL: https://sneakernews.com/2017/11/07/puma-jamming-cushion-release-info/> (Year 2017).

Cruise Down the Streets in the Distinctive Puma Hybrid Runner, RunnersWorld.com, By Amanda Furrer, Jul. 2, 2018, 11 pages, [online], [site visited Jul. 26, 2019]. <URL: https://www.runnersworld.com/gear/a21987976/puma-hybrid-runner-shoe-review/> (Year: 2018).

Did Nike Not Get the Memo on Plastic Beads?, Gizmodo, Published on Jul. 25, 2019, 7 pages, [online], [site visited Sep. 5, 2019]. <URL: https://earther.gizmodo.com/did-nike-not-get-the-memo-on-plastic-beads-1836694806> (Year: 2019).

Puma Jamming NRGY Shoe Unboxing /Review+ On Feet, YouTube.com, Published on Dec. 21, 2017, 1 page, [online], [site visited Jul. 26, 2019]. <URL: https://www.youtube.com/watch?v=rpCmRWeDbj8> (Year: 2017).

The beads that move with you, PUMA Catch up, Published on Nov. 9, 2017, 6 pages, [online], [site visited Sep. 5, 2019]. <URL: https://www.puma-catchup.com/jamming-pumas-new-sole-technology-ultimate-comfort/> (Year: 2017).

The Puma Jamming Introduces New Cushioning Technology, Sneakers-Magazine.com, Posted Nov. 9, 2017, 3 pages, [online], [site visited Jul. 26, 2019]. <URL: https://sneakers-magazine.com/puma-jamming-nrgy-beads/> (Year: 2017).

Hybrid NX Ozone Men's Running Shoes, Us.Puma.com, [online], [site visited Sep. 8, 2020]. <URL: https://us.puma.com/en/us/pd/hybrid-nx-ozone-mens-running-shoes/193384.html?dwvar 193384_color=06> (Year: 2020).

Hybrid Astro Men's Running Shoes, Us.Puma.com, [online], [site visited Sep. 8, 2020]. <URL: https://us.puma.com/en/us/pd/hybrid-astro-mens-running-shoes/192799.html?dwvar 192799_color=07> (Year: 2020).

First Office Action from corresponding Japanese Patent Application No. 2020-546945 dated Nov. 2, 2021 (8 pages) (English translation included).

First Office Action from corresponding Chinese Patent Application No. 201880090530.6 dated Jun. 3, 2021 (13 pages) (English translation included).

Office Action from corresponding Indian Application No. 201817021054 dated Nov. 10, 2021 (English translation included) (5 pages).

Office Action from corresponding Korean Application No. 10-2018-7016199 dated Dec. 22, 2021 (English translation included) (13 pages).

Notice of Reasons of Refusal issued in corresponding Japanese Application No. 2018-526089, dated Jun. 30, 2020, 11 pages.

International Search Report of International Application No. PCT/EP2018/060995, dated Jan. 17, 2019, 3 pages.

International Search Report for PCT/EP2017/000972, dated Oct. 25, 2017, 3 pages.

First Office Action from corresponding Chinese Patent Application No. 201880100006.2 dated Jan. 7, 2022 (16 pages) (English translation included).

* cited by examiner

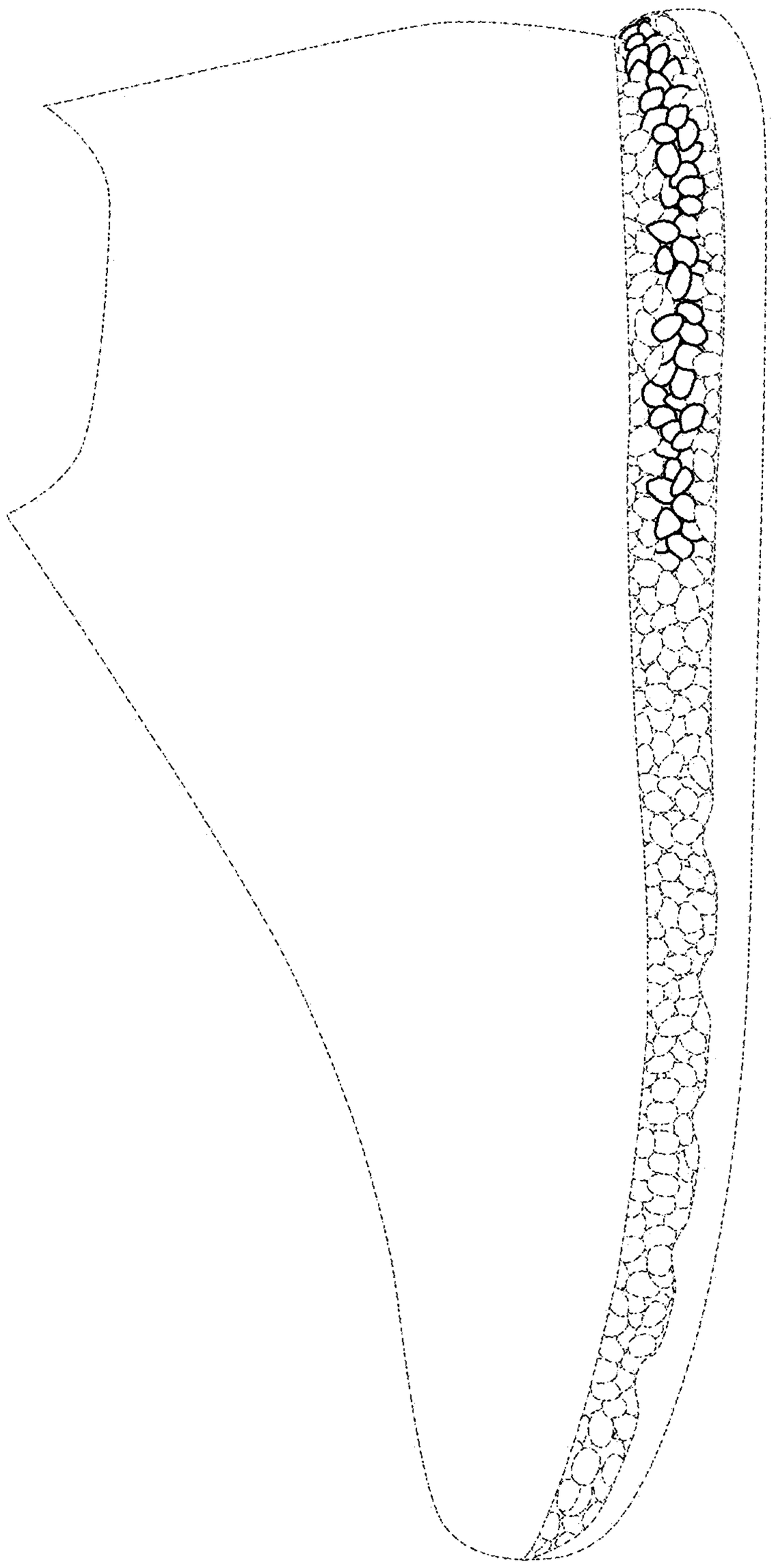

FIG. 1

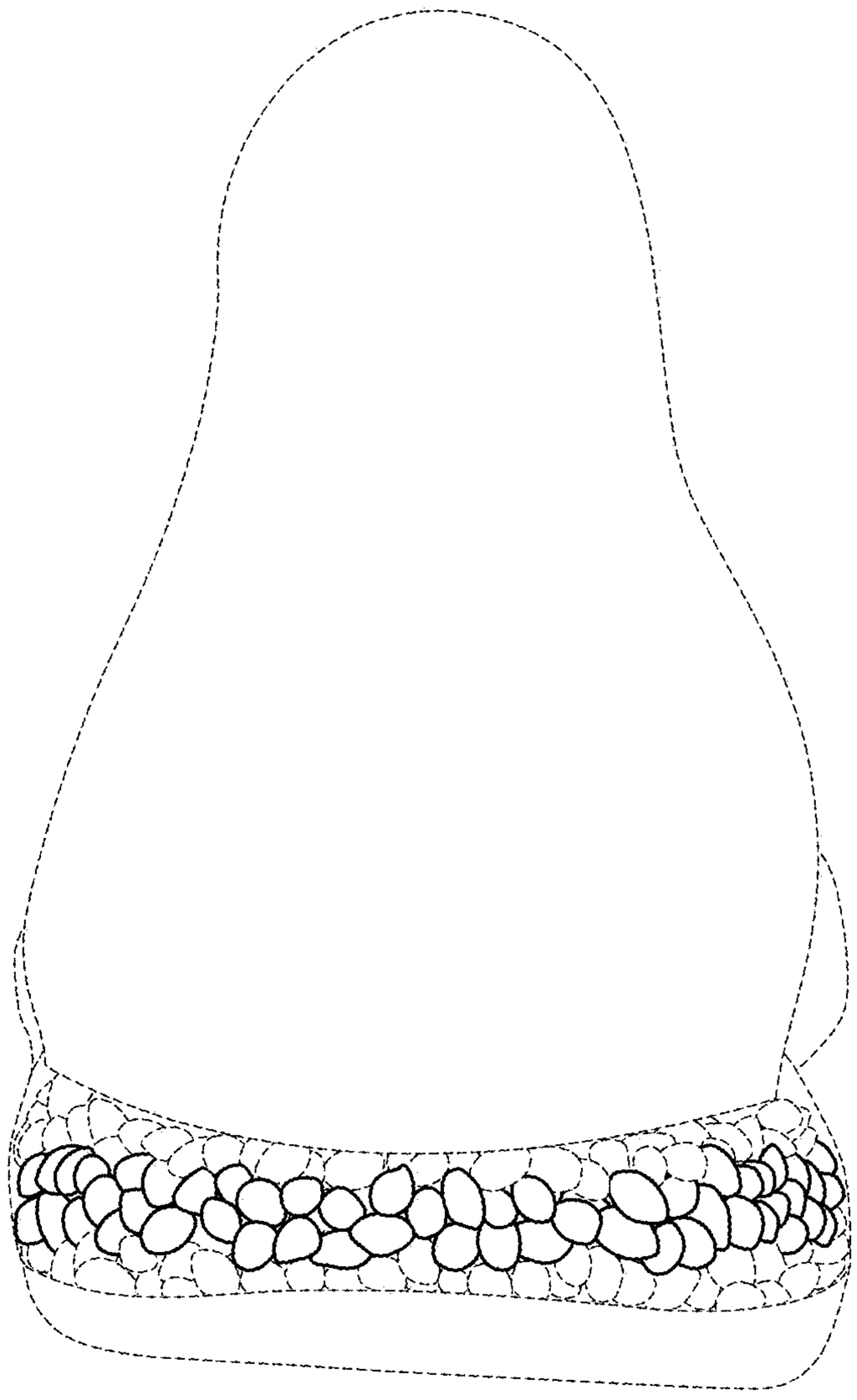

FIG. 2

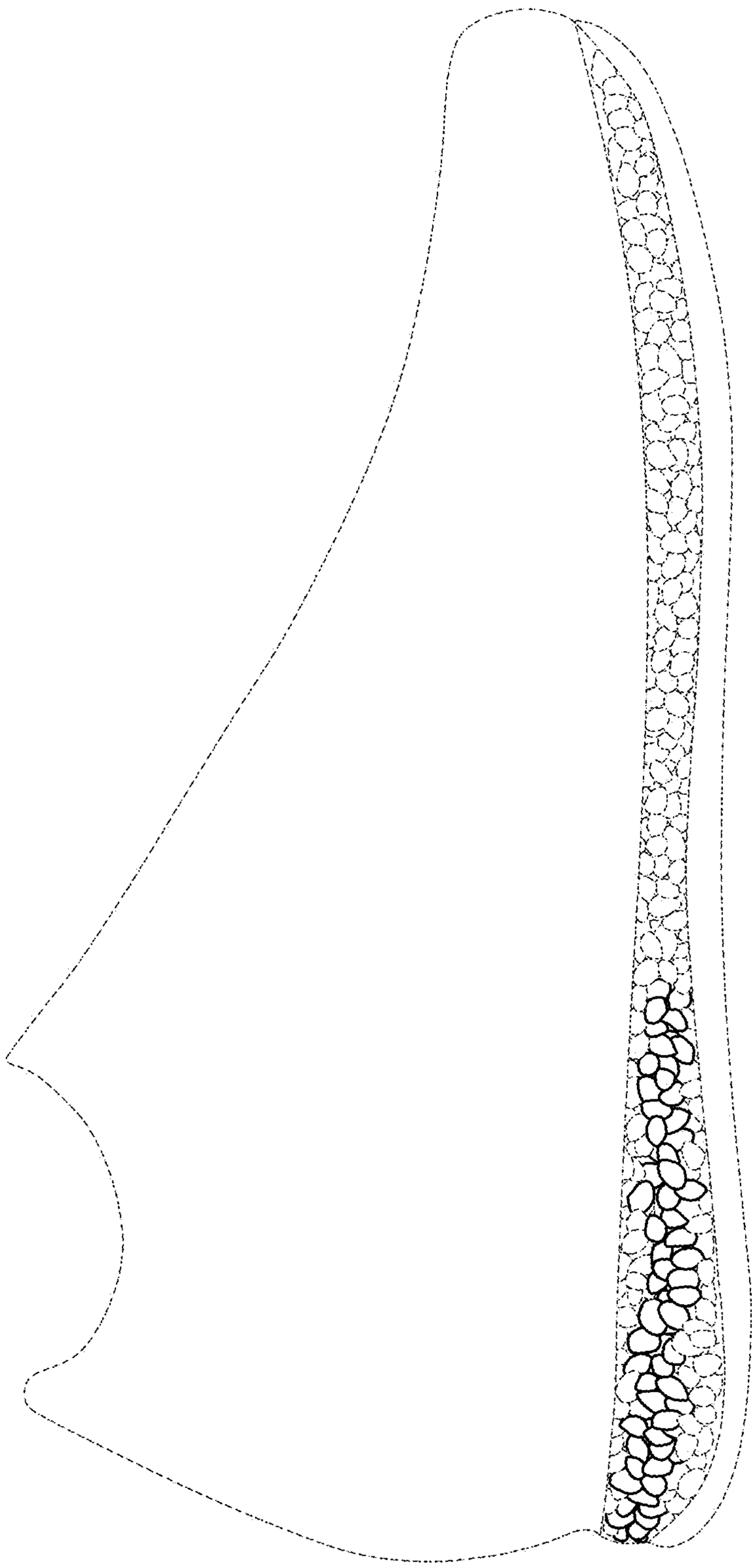

FIG. 3