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(54) FOOTWEAR LACE TIGHTENING REEL
STABILIZER

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1,060,422 A 4/1913 Bowdish

1,062,511 A 5/1913 Short

1,083,775 A 1/1914 Thomas

1,090,438 A 3/1914 Worth et al.

1,170,472 A 2/1916 Barber

1,288,859 A 12/1918 Feller et al.

(Continued)

(*) Notice: This patent is subject to a terminal dis-
claimer.

(**) Term: 14 Years

FOREIGN PATENT DOCUMENTS

AT 127075 2/1932

AT 244804 1/1966

(Continued)

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See application file for complete search history.

OTHER PUBLICATIONS

ASOLO® Boot Brochure Catalog upon information and belief date
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(Continued)

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(57) CLAIM

The ornamental design for a footwear lace tightening reel
stabilizer, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a footwear lace tightening reel
stabilizer, showing my new design;
FIG. 2 is a left side view thereof;
FIG. 3 is a right side view thereof;
FIG. 4 is a top view thereof;
FIG. 5 is a bottom view thereof; and,
FIG. 6 is a perspective view thereof, as applied to a piece of
footwear shown in broken lines in a used condition.
The broken lines shown in the drawings represent portions
of the footwear lace tightening reel stabilizer that form no
part of the claimed design.

(56) References Cited

U.S. PATENT DOCUMENTS

59,332 A 10/1866 White et al.

80,834 A 8/1868 Prussia

117,530 A 8/1871 Foote

228,946 A 6/1880 Schulz

230,759 A 8/1880 Drummond

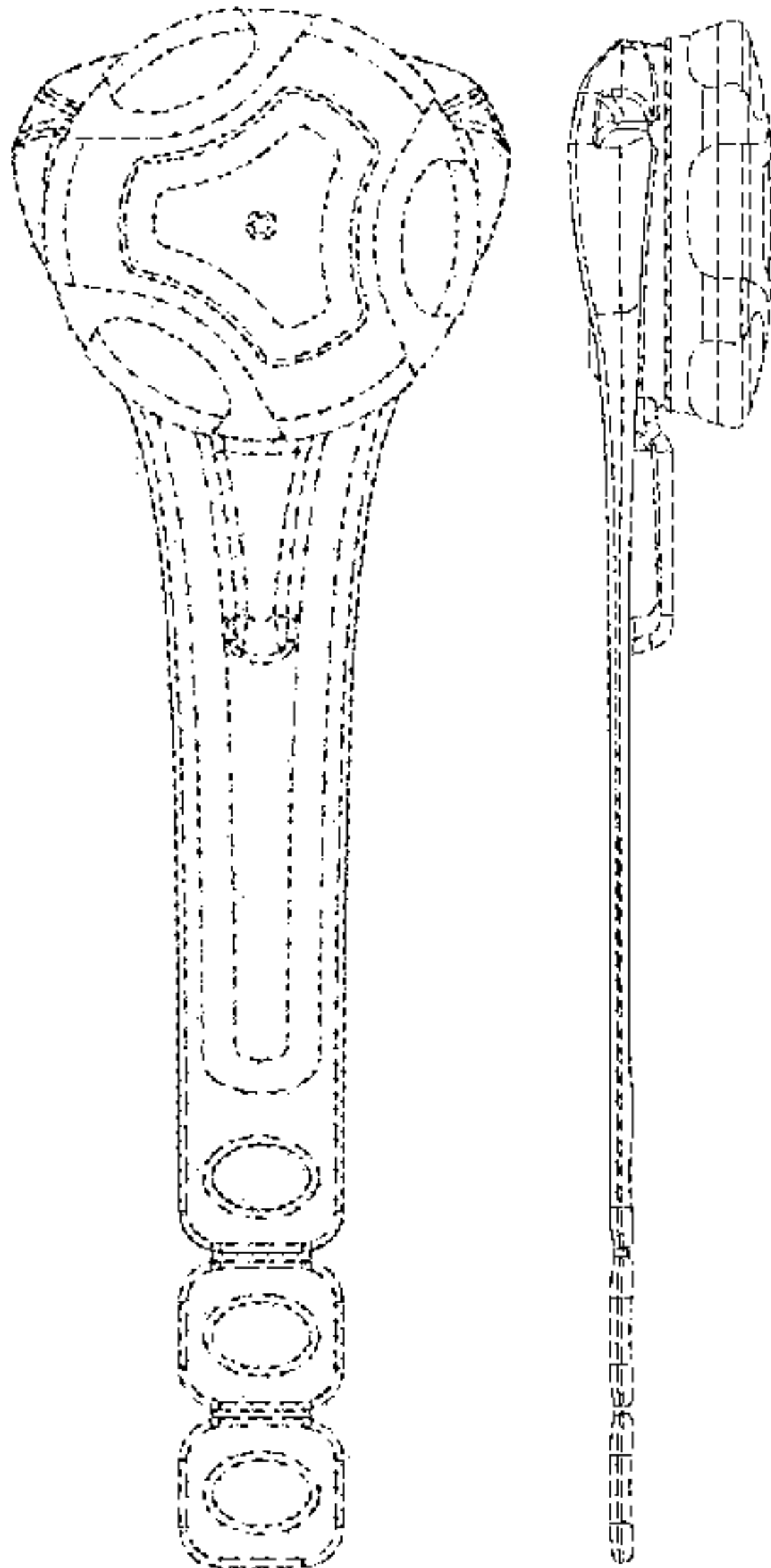
379,113 A 3/1888 Hibberd

746,563 A 12/1903 McMahon

819,993 A 5/1906 Haws et al.

908,704 A 1/1909 Sprinkle

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

1,390,991 A	9/1921	Fotchuk	4,633,599 A	1/1987	Morell et al.
1,393,188 A	10/1921	Whiteman	4,644,938 A	2/1987	Yates et al.
1,469,661 A	2/1922	Migita	4,654,985 A	4/1987	Chalmers
1,412,486 A	4/1922	Paine	4,660,300 A	4/1987	Morell et al.
1,416,203 A	5/1922	Hobson	4,660,302 A	4/1987	Arieh et al.
1,429,657 A	9/1922	Trawinski	4,680,878 A	7/1987	Pozzobon et al.
1,481,903 A	4/1923	Hart	4,719,670 A	1/1988	Kurt
1,466,673 A	9/1923	Solomon et al.	4,719,709 A	1/1988	Vaccari
1,530,713 A	2/1924	Clark	4,719,710 A	1/1988	Pozzobon
1,502,919 A	7/1924	Seib	4,722,477 A	2/1988	Floyd
1,862,047 A	6/1932	Boulet et al.	4,741,115 A	5/1988	Pozzobon
1,995,243 A	6/1934	Clarke	4,748,726 A	6/1988	Schoch
2,088,851 A	8/1937	Gantenbein	4,760,653 A	8/1988	Baggio
2,109,751 A	3/1938	Matthias et al.	4,780,969 A	11/1988	White, Jr.
2,124,310 A	9/1938	Murr, Jr.	4,787,124 A	11/1988	Pozzobon et al.
2,316,102 A	4/1943	Preston	4,790,081 A	12/1988	Benoit et al.
2,539,026 A	1/1951	Mangold	4,796,829 A	1/1989	Pozzobon
2,611,940 A	9/1952	Cairns	4,799,297 A	1/1989	Baggio et al.
2,673,381 A	3/1954	Dueker	4,802,291 A	2/1989	Sartor
2,907,086 A	10/1959	Ord	4,811,503 A	3/1989	Iwama
2,991,523 A	7/1961	Del Conte	4,826,098 A	5/1989	Pozzobon
3,028,602 A	4/1962	Miller	4,841,649 A	6/1989	Baggio et al.
3,035,319 A	5/1962	Wolff	4,856,207 A	8/1989	Datson
3,106,003 A *	10/1963	Herdman A43C 7/00	4,862,878 A	9/1989	Davison
		24/712.3	4,870,723 A	10/1989	Pozzobon et al.
3,112,545 A	12/1963	Williams	4,870,761 A	10/1989	Tracy
3,122,810 A *	3/1964	Lawrence A43C 11/12	4,884,760 A	12/1989	Baggio et al.
		24/438	4,901,938 A	2/1990	Cantley et al.
3,163,900 A	1/1965	Martin	4,924,605 A	5/1990	Spademan
D200,394 S	2/1965	Hakim	D308,282 S	6/1990	Bergman et al.
3,169,325 A	2/1965	Fesl	4,937,953 A	7/1990	Walkhoff
3,193,950 A	7/1965	Liou	4,961,544 A	10/1990	Biodia
3,197,155 A	7/1965	Chow	4,979,953 A	12/1990	Spence
3,221,384 A	12/1965	Aufenacker	4,989,805 A	2/1991	Burke
3,276,090 A	10/1966	Nigon	5,001,817 A	3/1991	De Bortoli et al.
D206,146 S	11/1966	Hendershot	5,016,327 A	5/1991	Klausner
3,345,707 A *	10/1967	Rita A43C 7/00	5,042,177 A	8/1991	Schoch
		24/712.2	5,062,225 A	11/1991	Gorza
D210,649 S	4/1968	Getgay	5,065,480 A	11/1991	DeBortoli
3,401,437 A	9/1968	Christphohersen	5,065,481 A	11/1991	Walkhoff
3,430,303 A	3/1969	Perrin et al.	5,108,216 A	4/1992	Geyer et al.
3,491,465 A	1/1970	Martin	5,117,567 A	6/1992	Berger
3,545,106 A	12/1970	Martin	5,152,038 A	10/1992	Schoch
3,618,232 A	11/1971	Shnuriwsky	5,157,813 A	10/1992	Carroll
3,668,791 A	6/1972	Salzman et al.	5,158,428 A	10/1992	Gessner et al.
3,678,539 A	7/1972	Graup	5,177,882 A	1/1993	Berger
3,703,775 A	11/1972	Gatti	5,181,331 A	1/1993	Berger
3,729,779 A	5/1973	Forth	5,184,378 A	2/1993	Batra
3,738,027 A	6/1973	Schoch	D333,552 S	3/1993	Berger et al.
3,793,749 A	2/1974	Gertsch et al.	5,205,055 A	4/1993	Harrell
3,808,644 A	5/1974	Schoch	5,233,767 A	8/1993	Kramer
3,934,346 A	1/1976	Sasaki et al.	5,249,377 A	10/1993	Walkhoff
3,975,838 A	8/1976	Martin	5,259,094 A	11/1993	Zepeda
4,084,267 A	4/1978	Zadina	5,315,741 A	5/1994	Debberke
4,130,949 A	12/1978	Seidel	5,319,868 A	6/1994	Hallenbeck
4,142,307 A	3/1979	Martin	5,319,869 A	6/1994	McDonald et al.
4,227,322 A	10/1980	Annovi	5,325,613 A	7/1994	Sussmann
4,261,081 A	4/1981	Lott	5,327,662 A	7/1994	Hallenbeck
4,267,622 A	5/1981	Burnett-Johnston	5,335,401 A	8/1994	Hanson
4,408,403 A	10/1983	Martin	5,341,583 A	8/1994	Hallenbeck
4,417,703 A	11/1983	Weinhold	5,345,697 A	9/1994	Quellais
4,433,456 A	2/1984	Baggio	5,355,596 A	10/1994	Sussmann
4,463,761 A	8/1984	Pols et al.	5,357,654 A	10/1994	Hsing-Chi
4,480,395 A	11/1984	Schoch	5,371,957 A	12/1994	Gaudio
4,507,878 A	4/1985	Semouha	5,381,609 A	1/1995	Hieblinger
4,516,576 A	5/1985	Kirchner	5,392,535 A	2/1995	Van Noy et al.
4,551,932 A	11/1985	Schoch	D357,576 S	4/1995	Steinweis
4,555,830 A	12/1985	Petrini et al.	5,425,161 A	6/1995	Schoch
4,574,500 A	3/1986	Aldinio et al.	5,425,185 A	6/1995	Gansler
4,616,432 A	10/1986	Bunch et al.	5,430,960 A	7/1995	Richardson
4,616,524 A	10/1986	Biodia	5,433,648 A	7/1995	Frydman
4,619,057 A	10/1986	Sartor et al.	5,463,822 A	11/1995	Miller
4,620,378 A	11/1986	Sartor	5,477,593 A	12/1995	Leick
4,631,839 A	12/1986	Bonetti et al.	D367,755 S	3/1996	Jones
4,631,840 A	12/1986	Gamm	D367,954 S *	3/1996	Dion D2/946
			5,502,902 A	4/1996	Sussmann
			5,511,325 A	4/1996	Hieblinger
			5,526,585 A	6/1996	Brown et al.
			5,535,531 A	7/1996	Karabed et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

5,537,763 A	7/1996	Donnadieu et al.	6,735,829 B2	5/2004	Hsu	
5,557,864 A	9/1996	Marks	6,757,991 B2	7/2004	Sussmann	
5,566,474 A	10/1996	Leick et al.	6,775,928 B2	8/2004	Grande et al.	
D375,831 S	11/1996	Perry	6,792,702 B2	9/2004	Borsoi et al.	
5,596,820 A	1/1997	Edauw et al.	6,802,439 B2	10/2004	Azam et al.	
5,599,000 A	2/1997	Bennett	6,823,610 B1	11/2004	Ashley	
5,599,288 A	2/1997	Shirley et al.	6,871,812 B1	3/2005	Chang	
5,600,874 A	2/1997	Jungkind	6,877,256 B2	4/2005	Martin et al.	
5,606,778 A	3/1997	Jungkind	6,899,720 B1	5/2005	McMillan	
5,607,448 A	3/1997	Stahl et al.	6,922,917 B2	8/2005	Kerns et al.	
D379,113 S	5/1997	McDonald et al.	6,938,913 B2	9/2005	Elkington	
5,638,588 A	6/1997	Jungkind	6,945,543 B2	9/2005	De Bertoli et al.	
5,640,785 A	6/1997	Egelja	D510,183 S	10/2005	Tresser	
5,647,104 A	7/1997	James	6,976,972 B2	12/2005	Bradshaw	
5,651,198 A	7/1997	Sussmann	6,993,859 B2	2/2006	Martin et al.	
5,669,116 A	9/1997	Jungkind	D521,226 S	5/2006	Douglas et al.	
5,692,319 A	12/1997	Parker et al.	7,073,279 B2 *	7/2006	Min	A43C 1/003 24/712
5,718,021 A	2/1998	Tatum	7,076,843 B2	7/2006	Sakabayashi	
5,718,065 A	2/1998	Locker	7,082,701 B2	8/2006	Dalgaard et al.	
5,720,084 A	2/1998	Chen	7,096,559 B2	8/2006	Johnson et al.	
5,732,483 A	3/1998	Cagliari	7,134,224 B2	11/2006	Elkington et al.	
5,732,648 A	3/1998	Aragon	7,266,911 B2	9/2007	Holzer et al.	
5,736,696 A	4/1998	Del Rosso	7,281,341 B2	10/2007	Reagan et al.	
5,737,854 A	4/1998	Sussmann	7,293,373 B2	11/2007	Reagan et al.	
5,755,044 A	5/1998	Veylupek	7,331,126 B2	2/2008	Johnson	
5,756,298 A	5/1998	Burczak	7,343,701 B2	3/2008	Pare et al.	
5,761,777 A	6/1998	Leick	7,367,522 B2	5/2008	Chen	
5,772,146 A	6/1998	Kawamoto et al.	7,386,947 B2	6/2008	Martin et al.	
5,784,809 A	7/1998	McDonald	7,392,602 B2	7/2008	Reagan et al.	
5,791,068 A	8/1998	Bernier et al.	7,401,423 B2	7/2008	Reagan et al.	
5,819,378 A	10/1998	Doyle	7,490,458 B2	2/2009	Ford	
5,833,640 A	11/1998	Vazquez, Jr. et al.	7,568,298 B2	8/2009	Kerns	
5,839,210 A	11/1998	Bernier et al.	7,582,102 B2	9/2009	Heinz et al.	
5,845,371 A	12/1998	Chen	7,584,528 B2	9/2009	Hu	
5,909,946 A	6/1999	Okajima	7,591,050 B2	9/2009	Hammerslag	
D413,197 S	8/1999	Faye	7,597,675 B2	10/2009	Ingimundarson et al.	
5,934,599 A	8/1999	Hammerslag	7,600,660 B2	10/2009	Kasper et al.	
5,937,542 A	8/1999	Bourdeau	7,617,573 B2	11/2009	Chen	
5,956,823 A	9/1999	Borel	7,624,517 B2	12/2009	Smith	
5,971,946 A	10/1999	Quinn et al.	7,648,404 B1	1/2010	Martin	
6,015,110 A	1/2000	Lai	7,650,705 B2	1/2010	Donnadieu et al.	
6,038,791 A	3/2000	Cornelius et al.	7,694,354 B2	4/2010	Philpott et al.	
6,052,921 A	4/2000	Oreck	7,752,774 B2	7/2010	Ussher	
6,070,886 A	6/2000	Cornelius et al.	7,757,412 B2	7/2010	Farys	
6,070,887 A	6/2000	Cornelius et al.	7,774,956 B2	8/2010	Dua et al.	
6,083,857 A	7/2000	Bottger	D626,322 S	11/2010	Servettaz	
6,088,936 A	7/2000	Bahl	7,841,106 B2	11/2010	Farys	
6,102,412 A	8/2000	Staffaroni	7,871,334 B2	1/2011	Young et al.	
D430,724 S	9/2000	Matis et al.	7,877,845 B2	2/2011	Signori	
6,119,318 A	9/2000	Maurer	7,900,378 B1	3/2011	Busse	
6,119,372 A	9/2000	Okajima	7,908,769 B2	3/2011	Pellegrini	
6,128,835 A	10/2000	Ritter et al.	7,947,061 B1	5/2011	Reis	
6,128,836 A	10/2000	Barret	7,950,112 B2	5/2011	Hammerslag et al.	
6,148,489 A	11/2000	Dickie et al.	7,954,204 B2	6/2011	Hammerslag et al.	
6,202,953 B1	3/2001	Hammerslag	7,963,049 B2	6/2011	Messmer	
6,219,891 B1	4/2001	Maurer et al.	7,992,261 B2	8/2011	Hammerslag et al.	
6,240,657 B1	6/2001	Weber et al.	D646,790 S	10/2011	Castillo et al.	
6,256,798 B1	7/2001	Egolf et al.	8,056,150 B2	11/2011	Stokes et al.	
6,267,390 B1	7/2001	Maravetz et al.	8,074,379 B2	12/2011	Robinson, Jr. et al.	
6,286,233 B1	9/2001	Gaither	8,091,182 B2	1/2012	Hammerslag et al.	
6,289,558 B1	9/2001	Hammerslag	8,109,015 B2	2/2012	Signori	
6,311,633 B1	11/2001	Keire	8,231,074 B2	4/2012	Hu et al.	
D456,130 S	4/2002	Towns	D663,850 S	7/2012	Joseph	
6,370,743 B2	4/2002	Choe	D663,851 S	7/2012	Joseph	
6,401,364 B1	6/2002	Burt	8,215,033 B2	7/2012	Carboy et al.	
6,416,074 B1	7/2002	Maravetz et al.	D665,088 S	8/2012	Joseph	
6,467,195 B2	10/2002	Pierre et al.	8,235,321 B2	8/2012	Chen	
6,477,793 B1	11/2002	Pruitt et al.	8,245,371 B2	8/2012	Chen	
6,502,286 B1	1/2003	Dubberke	8,257,293 B2	9/2012	Ingimundarson et al.	
6,543,159 B1	4/2003	Carpenter et al.	8,266,827 B2	9/2012	Dojan et al.	
6,568,103 B2	5/2003	Durocher	8,277,401 B2	10/2012	Hammerslag et al.	
6,606,304 B1	8/2003	Kaneko et al.	8,302,329 B2	11/2012	Hurd et al.	
6,694,643 B1	2/2004	Hsu	8,303,527 B2	11/2012	Joseph	
6,708,376 B1	3/2004	Landry	8,308,098 B2	11/2012	Chen	
6,711,787 B2	3/2004	Jungkind et al.	8,353,087 B2	1/2013	Chen	
			8,353,088 B2 *	1/2013	Ha	A43B 3/0042 24/712.5
			D677,045 S	3/2013	Voskuil	

(56)

References Cited**U.S. PATENT DOCUMENTS**

D679,019	S	3/2013	Siddle et al.
8,434,200	B2	5/2013	Chen
8,490,299	B2	7/2013	Dua et al.
8,516,662	B2	8/2013	Goodman et al.
8,578,632	B2	11/2013	Bell et al.
8,652,164	B1	2/2014	Aston
8,713,820	B2	5/2014	Kerns et al.
8,984,719	B2 *	3/2015	Soderberg A43B 3/0042 24/68 B
9,072,341	B2	7/2015	Jungkind
D735,987	S *	8/2015	Hsu D2/978
9,101,181	B2	8/2015	Soderberg et al.
9,125,455	B2	9/2015	Kerns et al.
9,138,030	B2	9/2015	Soderberg et al.
9,248,040	B2	2/2016	Soderberg et al.
2002/0095750	A1	7/2002	Hammerslag
2002/0129518	A1	9/2002	Salomon
2002/0148142	A1	10/2002	Holzer et al.
2002/0166260	A1	11/2002	Borsoi
2002/0178548	A1	12/2002	Freed
2003/0079376	A1	5/2003	Mathieu
2003/0144620	A1	7/2003	Sieller
2003/0150135	A1	8/2003	Liu
2003/0177662	A1	9/2003	Elkington et al.
2003/0204938	A1	11/2003	Hammerslag
2004/0041452	A1	3/2004	Williams
2004/0211039	A1	10/2004	Livingston
2005/0054962	A1	3/2005	Bradshaw
2005/0081339	A1	4/2005	Sakabayashi
2005/0081403	A1	4/2005	Mathieu
2005/0087115	A1	4/2005	Martin
2005/0098673	A1	5/2005	Huang
2005/0102861	A1	5/2005	Martin
2005/0126043	A1	6/2005	Reagan et al.
2005/0172463	A1	8/2005	Rolla
2005/0184186	A1	8/2005	Tsoi et al.
2005/0198866	A1	9/2005	Wiper et al.
2006/0135901	A1	6/2006	Ingimundarson et al.
2006/0156517	A1	7/2006	Hammerslag et al.
2006/0179685	A1	8/2006	Borel et al.
2006/0185193	A1	8/2006	Pellegrini
2006/0287627	A1	12/2006	Johnson
2007/0006489	A1	1/2007	Case, Jr. et al.
2007/0063459	A1	3/2007	Kavarsky
2007/0084956	A1	4/2007	Chen
2007/0113524	A1	5/2007	Lander
2007/0128959	A1	6/2007	Cooke
2007/0169378	A1	7/2007	Sodeberg et al.
2008/0016717	A1	1/2008	Ruban
2008/0060167	A1	3/2008	Hammerslag et al.
2008/0060168	A1	3/2008	Hammerslag et al.
2008/0066272	A1	3/2008	Hammerslag et al.
2008/0066345	A1	3/2008	Hammerslag et al.
2008/0066346	A1	3/2008	Hammerslag et al.
2008/0068204	A1	3/2008	Carmen et al.
2008/0083135	A1	4/2008	Hammerslag et al.
2008/0092279	A1	4/2008	Chiang
2008/0172848	A1	7/2008	Chen
2008/0196224	A1	8/2008	Hu
2009/0019734	A1	1/2009	Reagan et al.
2009/0172928	A1	7/2009	Messmer et al.
2009/0184189	A1	7/2009	Soderberg et al.
2009/0272007	A1	11/2009	Beers et al.
2009/0277043	A1	11/2009	Graser et al.
2010/0064547	A1	3/2010	Kaplan
2010/0101061	A1	4/2010	Ha
2010/0139057	A1	6/2010	Soderberg et al.
2010/0154254	A1	6/2010	Fletcher
2010/0175163	A1	7/2010	Litke
2010/0299959	A1	12/2010	Hammerslag et al.
2010/0319216	A1	12/2010	Grenzke et al.
2011/0000173	A1	1/2011	Lander
2011/0071647	A1	3/2011	Mahon
2011/0162236	A1	7/2011	Voskuil et al.
2011/0167543	A1	7/2011	Kovacevich et al.

2011/0191992	A1	8/2011	Chen
2011/0197362	A1	8/2011	Chella et al.
2011/0225843	A1	9/2011	Kerns et al.
2011/0258876	A1	10/2011	Baker et al.
2011/0266384	A1	11/2011	Goodman et al.
2012/0000091	A1	1/2012	Cotterman et al.
2012/0004587	A1	1/2012	Nickel et al.
2012/0005995	A1	1/2012	Emery
2012/0023717	A1	2/2012	Chen
2012/0047620	A1	3/2012	Ellis et al.
2012/0101417	A1	4/2012	Joseph
2012/0102783	A1	5/2012	Swigart et al.
2012/0138882	A1	6/2012	Moore et al.
2012/0157902	A1	6/2012	Castillo et al.
2012/0167290	A1	7/2012	Kovacevich et al.
2012/0174437	A1	7/2012	Heard
2012/0228419	A1	9/2012	Chen
2012/0246974	A1	10/2012	Hammerslag et al.
2012/0310273	A1	12/2012	Thorpe
2013/0012856	A1	1/2013	Hammerslag et al.
2013/0014359	A1	1/2013	Chen
2013/0091667	A1	4/2013	Chen
2013/0091674	A1	4/2013	Chen
2013/0092780	A1	4/2013	Soderberg et al.
2013/0019501	A1	10/2013	Gerber
2013/0269219	A1	10/2013	Burns et al.
2013/0277485	A1	10/2013	Soderberg et al.
2013/0340283	A1	12/2013	Bell et al.
2013/0345612	A1	12/2013	Bannister et al.
2014/0082963	A1	3/2014	Beers
2014/0094728	A1	4/2014	Soderberg et al.
2014/0117140	A1	5/2014	Goodman et al.
2014/0123440	A1	5/2014	Capra et al.
2014/0123449	A1	5/2014	Soderberg et al.
2014/0208550	A1	7/2014	Neiley
2014/0221889	A1	8/2014	Burns et al.
2014/0257156	A1	9/2014	Capra et al.
2014/0290016	A1	10/2014	Lovett et al.
2014/0359981	A1	12/2014	Cotterman et al.
2015/0007422	A1	1/2015	Cavanagh et al.
2015/0014463	A1	1/2015	Converse et al.
2015/0026936	A1	1/2015	Kerns et al.
2015/0033519	A1	2/2015	Hammerslag et al.
2015/0059206	A1	3/2015	Lovett et al.
2015/0076272	A1	3/2015	Trudel et al.
2015/0089779	A1	4/2015	Lawrence et al.
2015/0089835	A1	4/2015	Hammerslag et al.
2015/0101160	A1	4/2015	Soderberg et al.
2015/0150705	A1	6/2015	Capra et al.
2015/0151070	A1	6/2015	Capra et al.
2015/0190262	A1	7/2015	Capra et al.
2015/0223608	A1	8/2015	Capra et al.
2015/0237962	A1	8/2015	Soderberg et al.
2015/0335458	A1	11/2015	Romo

FOREIGN PATENT DOCUMENTS

AT	361808	4/1981
CA	2114387	1/1994
CA	2112789	8/1994
CH	41765	9/1907
CH	111341	11/1925
CH	199766	11/1938
CH	204 834 A	8/1939
CH	523 669	7/1972
CH	562 015	5/1975
CH	577 282	7/1976
CH	612 076	7/1979
CH	537 164	7/1981
CH	624 001	7/1981
CH	471553	12/1984
CN	2613167	4/2004
CN	201015448	2/2008
DE	555211	7/1932
DE	641976	2/1937
DE	1 661 668	8/1953
DE	7043154.8	11/1970
DE	1 785 220	5/1971
DE	2 062 795	6/1972

(56)

References Cited

FOREIGN PATENT DOCUMENTS

DE	23 41 658	3/1974
DE	24 14 439	10/1975
DE	29 00 077 A1	7/1980
DE	2914280 A1	10/1980
DE	31 01 952 A1	9/1982
DE	36 26 837	2/1988
DE	38 13 470	11/1989
DE	3822113 C2	1/1990
DE	9413147	6/1994
DE	43 02 401 A1	8/1994
DE	43 02 401 A1	8/1994
DE	43 05 671 A1	9/1994
DE	9308037	10/1994
DE	43 26 049 A1	2/1995
DE	9315776	2/1995
DE	29503552.8	4/1995
DE	196 24 553	1/1998
DE	19945045 A1	3/2001
DE	201 16 755 U1	1/2002
DE	20 2010 000 354 U1	6/2010
DE	11 2013 005 273 T5	9/2015
EP	0 056 953 81	6/1969
EP	0 081 042 81	7/1972
EP	0 056 953	8/1982
EP	0 123 050	2/1984
EP	0 201 051	11/1986
EP	0 099 504	1/1987
EP	0 255 869	7/1987
EP	0 155 596	1/1988
EP	0 393 380	3/1990
EP	0 474 708	9/1993
EP	0 589 232 A1	3/1994
EP	0 589 233 A1	3/1994
EP	0 614 625 A1	9/1994
EP	0 651 954 A1	5/1995
EP	0 679 346	11/1995
EP	0 693 260 B1	1/1996
EP	0 717 942	6/1996
EP	0 858 619	8/1996
EP	0 734 662 A1	10/1996
EP	0 858 621	8/1998
EP	0 923 965	6/1999
EP	0 937 467	8/1999
EP	0 848 917 81	4/2000
EP	1163860	12/2001
EP	1 219 195	7/2002
EP	1 236 412 A	9/2002
EP	2298107 B1	3/2011
EP	2359708	8/2011
FR	1 349 832	3/1963
FR	1 404 799	7/1964
FR	2 019 991 A	7/1970
FR	2 108 428	9/1971
FR	2 175 684	3/1972
FR	2,108,429	5/1972
FR	2 565 795	6/1984
FR	2 598 292 A1	11/1987
FR	2 726 440 A1	5/1996
FR	2 770 379 A1	5/1999
FR	2 814 919 A1	4/2002
GB	189911673	7/1899
GB	216400	5/1924
GB	2 449 722 A	12/2008
IT	1220811 B	6/1990
IT	PD 2003 A 000197	4/2003
IT	PD 2003 A 000198	3/2005
JP	49-28618	3/1974
JP	51-2776	1/1976
JP	51-121375	10/1976
JP	51-131978	10/1976
JP	53-124987	3/1977
JP	54-108125	2/1978
JP	62-57346	4/1987
JP	63-80736	5/1988
JP	H02-236025	9/1990

JP	7-000208	6/1995
JP	6-284906	2/1996
JP	3031760	9/1996
JP	3030988	11/1996
JP	8308608	11/1996
JP	10-199366	7/1998
JP	2001-197905	7/2001
JP	2004-016732	1/2004
JP	2004-041666	2/2004
JP	2009-504210	2/2009
KR	20-0367882	11/2004
KR	20-0400568	8/2005
KR	10-0598627	7/2006
KR	10-0953398	4/2010
KR	10-1025134 B1	3/2011
KR	10-1028468	4/2011
KR	10-1053551	7/2011
WO	WO 94/27456	12/1994
WO	WO 95/11602	5/1995
WO	WO 1995/03720	9/1995
WO	WO 98/33408	8/1998
WO	WO 98/37782	9/1998
WO	WO 99/09850	3/1999
WO	WO 99/15043	4/1999
WO	WO 099/15043	4/1999
WO	WO 99/43231	9/1999
WO	WO00/53045	9/2000
WO	WO 2000/76337 A1	12/2000
WO	WO 01/08525	2/2001
WO	WO 01/15559	3/2001
WO	WO 02/051511	7/2002
WO	WO 2004/093569	11/2004
WO	WO 2005/013748 A1	2/2005
WO	WO/2007/016983	2/2007
WO	WO 2008/015214	2/2008
WO	WO/2008/033963	3/2008
WO	WO/2009/134858	11/2009
WO	WO 2010/059989 A2	5/2010
WO	WO 2012/165803 A2	12/2012
WO	WO/2015/035885	3/2015
WO	WO 2015/179332 A1	11/2015
WO	WO 2015/181928 A1	12/2015

OTHER PUBLICATIONS

U.S. Appl. No. 09/956,601, filed Sep. 18, 2001, Hammerslag, Including its prosecution history.

La Sportiva, A Technical Lightweight Double Boot for Cold Environments, 1 page. Accessed on May 27, 2015. Retrieved from <http://www.sportiva.com/products/footwear/mountain/spantik>.

“Strength of materials used to make my Safety Harnesses,” Elaine, Inc. Jul. 9, 2012. Retrieved from https://web.archive.org/web/20120709002720/http://www.childharness.ca/strength_data.html on Mar. 17, 2014, 2 pages.

Notice of Reasons for Rejection from the Japanese Patent Office dated Oct. 5, 2015 for design application No. 2015-004923, 4 pages.

International Search Report and Written Opinion for PCT/US2013/032326 dated Jun. 14, 2013, 27 pages.

International Preliminary Report on Patentability for PCT/US2013/032326 dated Sep. 16, 2014, 6 pages.

International Search Report and Written Opinion for PCT/US2013/057637 dated Apr. 7, 2014, 34 pages.

International Preliminary Report on Patentability for PCT/US2013/057637 dated Mar. 3, 2015, 9 pages.

International Search Report and Written Opinion for PCT/US2013/068342 dated Apr. 7, 2014, 29 pages.

International Preliminary Report on Patentability for PCT/US2013/068342 dated May 5, 2015, 9 pages.

International Search Report and Written Opinion for PCT/US2014/014952 dated Apr. 25, 2014, 17 pages.

International Preliminary Report on Patentability for PCT/US2014/014952 dated Aug. 11, 2015, 9 pages.

International Search Report and Written Opinion for PCT/US2014/066212 dated Apr. 22, 2015, 16 pages.

International Search Report and Written Opinion for PCT/US2014/032574 dated Oct. 31, 2014, 19 pages.

(56)

References Cited

OTHER PUBLICATIONS

International Preliminary Report on Patentability for PCT/US2014/032574 dated Oct. 6, 2015, 12 pages.
 International Search Report and Written Opinion for PCT/US2014/045291 dated Nov. 6, 2014, 12 pages.
 International Preliminary Report on Patentability for PCT/US2014/045291 dated Jan. 5, 2016, 5 pages.
 International Search Report and Written Opinion for PCT/US2014/013458 dated May 19, 2014, 12 pages.
 International Preliminary Report on Patentability for PCT/US2014/013458 dated Jul. 28, 2015, 7 pages.
 International Search Report and Written Opinion for PCT/US2013/068814 dated Jun. 9, 2014, 18 pages.
 International Preliminary Report on Patentability for PCT/US2013/068814 dated May 12, 2015, 12 pages.
 Notice of Reasons for Rejection from the Japanese Patent Office dated Feb. 26, 2015 for design application No. 2014-015570, 4 pages.
 Receipt of Certificate of Design Registration No. 1529678 from the Japanese Patent Office for design application No. 2014-015570 dated Jun. 26, 2015, 1 page.
 International Search Report and Written Opinion for PCT/US2014/055710 dated Jul. 6, 2015, 19 pages.
 International Search Report and Written Opinion for PCT/US2014/054420 dated Jul. 6, 2015, 21 pages.
 The Preliminary Rejections from the Korean Intellectual Property Office for Application No. 30-2014-34959 dated Aug. 7, 2015, is not translated into English. The document requests a renaming of the application to be in accordance with Korean patent law, 5 pages total.
 The Preliminary Rejections from the Korean Intellectual Property Office for Application No. 30-2014-34959 dated Apr. 7, 2015, is not translated into English. The document requests a revision of the drawings to be in accordance with Korean patent law, 6 pages total.

Anonymous, "Shore durometer," Wikipedia, the free encyclopedia, Mar. 10, 2012, XP002747470, Retrieved from the Internet: URL: https://en.wikipedia.org/w/index.php?title=Shore_durometer&oldid=481128180 [retrieved on Oct. 20, 2015] * shore A, shore D, durometer, polymer, rubber, gel; the whole document *, 6 pages.
 "Save Tourniquet," 3 pages. Copyright 2015. Accessed on Dec. 11, 2015. Retrieved from <http://www.savetourniquet.com/>.
 Certificate of Design Registration No. 30-809409 on Aug. 3, 2015 from the Korean Intellectual Property Office for Appln No. 30-2015-11475, 2 pages.
 Certificate of Design Registration No. 30-809410 on Aug. 3, 2015 from the Korean Intellectual Property Office for Appln No. 30-2015-11476, 2 pages.
 European Search Report for EP 14168875 dated Oct. 29, 2014, 9 pages.
 International Search Report and Written Opinion for PCT/US2014/020894 dated Jun. 20, 2014, 12 pages.
 International Preliminary Report on Patentability for PCT/US2014/020894 dated Sep. 8, 2015, 7 pages.
 International Search Report and Written Opinion for PCT/US2014/041144 dated Dec. 10, 2014, 13 pages.
 International Preliminary Report on Patentability for PCT/US2014/041144 dated Dec. 8, 2015, 9 pages.
 International Search Report and Written Opinion for PCT/US2014/046238 dated Nov. 21, 2014, 17 pages.
 International Preliminary Report on Patentability for PCT/US2014/046238 dated Jan. 12, 2016, 11 pages.
 Office Action dated Oct. 8, 2015 from the German Patent and Trademark Office for Appln No. 402015100191.2, regarding the title of the invention, 2 pages.
 Supplementary European Search Report for EP 13761841 dated Oct. 21, 2015, all pages.
 International Search Report and Written Opinion for PCT/US2015/054530 dated Jan. 13, 2016, all pages.

* cited by examiner

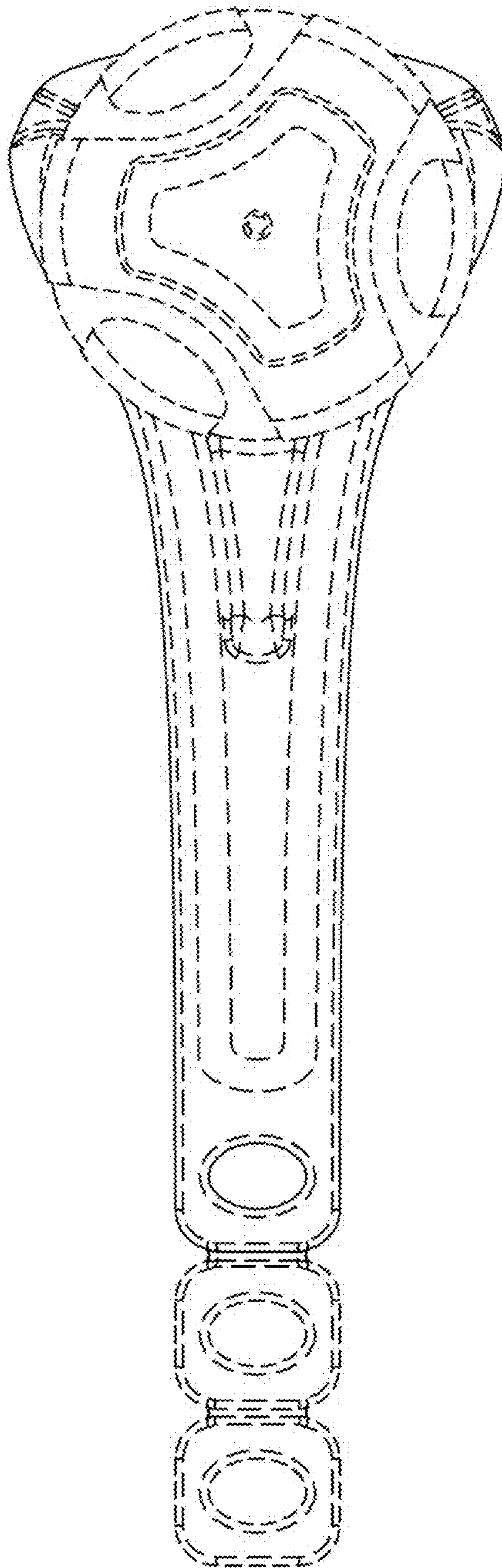


FIG. 1

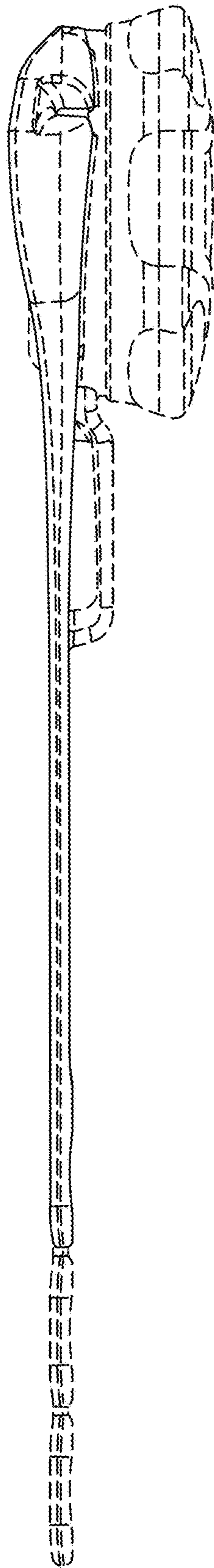


FIG. 2

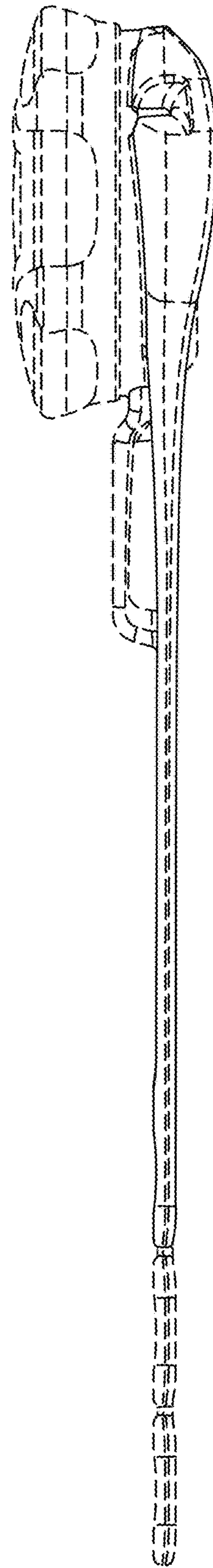


FIG. 3

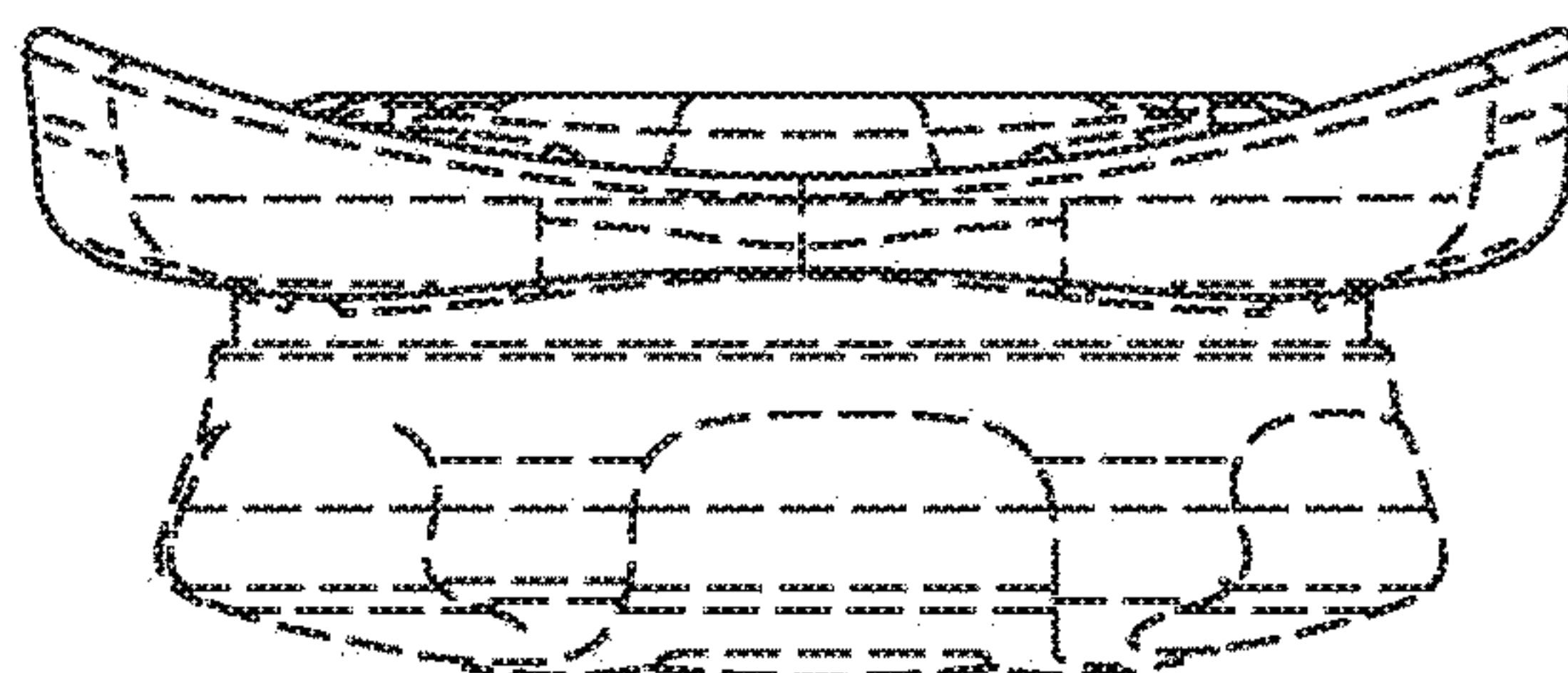


FIG. 4

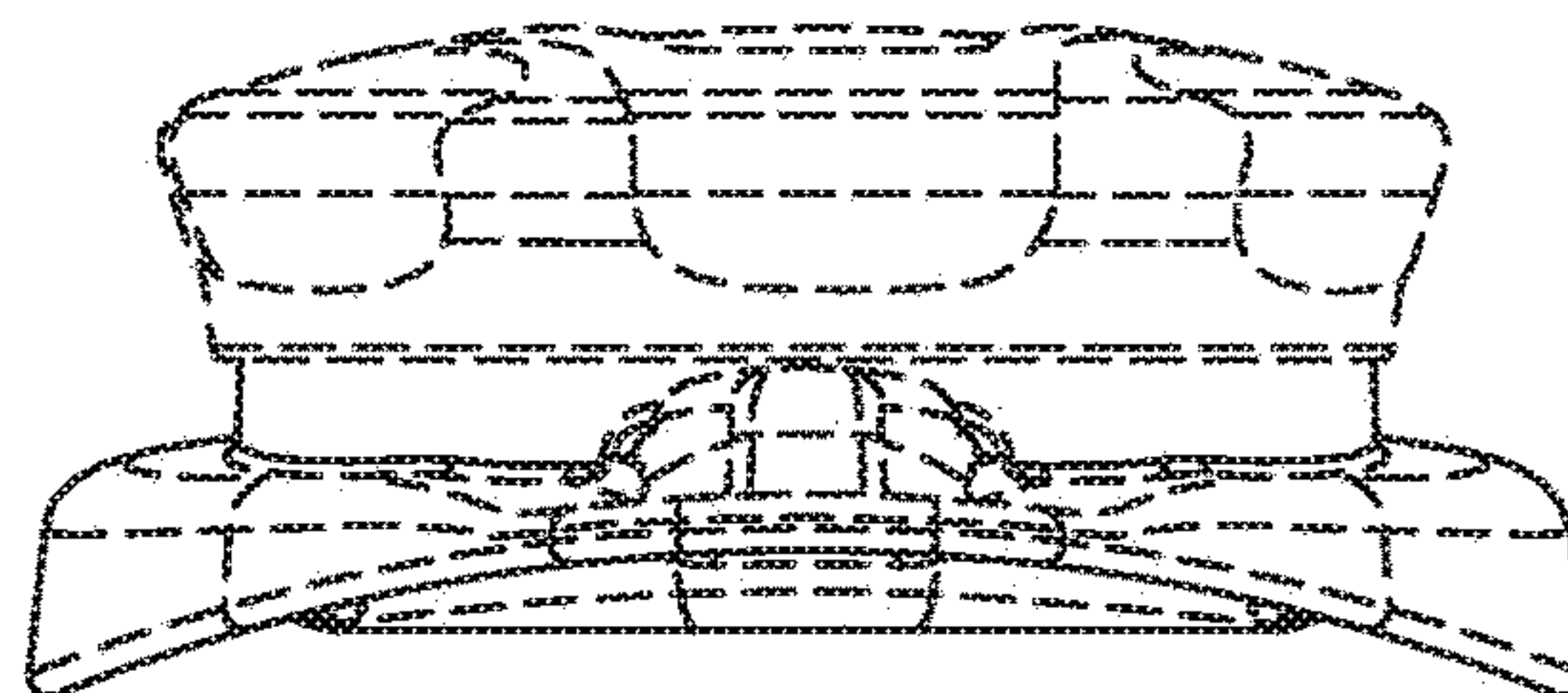


FIG. 5

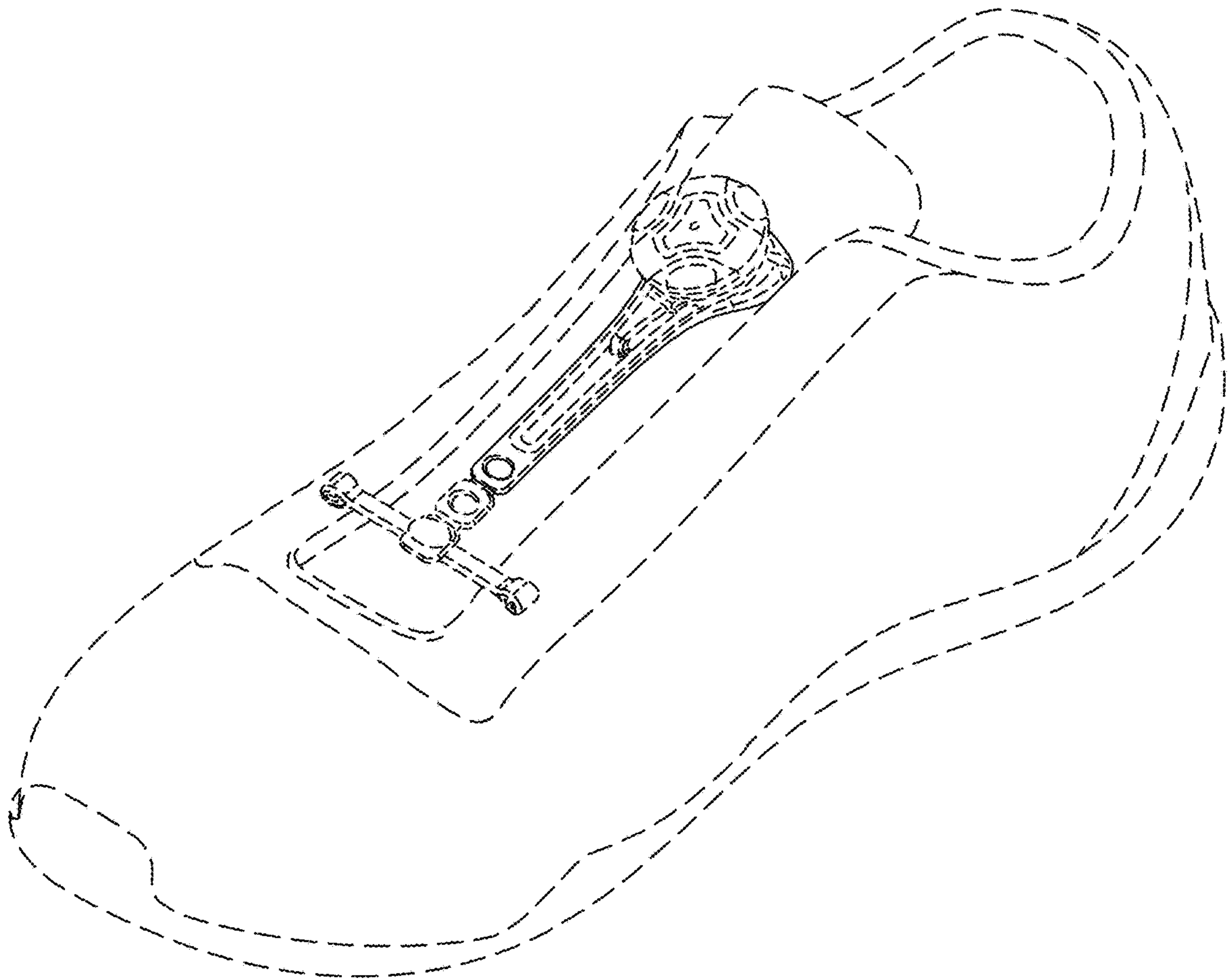


FIG. 6