



US00D774815S

(12) **United States Design Patent** (10) **Patent No.:** **US D774,815 S**  
**Lovley, II et al.** (45) **Date of Patent:** **\*\* Dec. 27, 2016**

(54) **SHADE COVER**

(71) Applicant: **BRAVO SPORTS**, Santa Fe Springs, CA (US)

(72) Inventors: **Jack B. Lovley, II**, Lake Forest, CA (US); **Joseph C. Klingl**, Los Angeles, CA (US)

(73) Assignee: **Bravo Sports**, Santa Fe Springs, CA (US)

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

(21) Appl. No.: **29/537,208**

(22) Filed: **Aug. 24, 2015**

**Related U.S. Application Data**

(63) Continuation of application No. 29/484,192, filed on Mar. 6, 2014, now Pat. No. Des. 737,066.

(51) **LOC (10) Cl.** ..... **06-06**

(52) **U.S. Cl.**  
USPC ..... **D6/716.8**; D6/368

(58) **Field of Classification Search**  
USPC ..... D3/5; D6/334-336, 360-381, 716, D6/716.1-716.4, 716.8  
CPC ..... A01K 97/01; A01M 31/025; A45B 11/00; A45B 23/00; A47C 1/14; A47C 1/143; A47C 4/00; A47C 4/24; A47C 4/28; A47C 4/30; A47C 4/38; A47C 4/42; A47C 4/48; A47C 4/52; A47C 4/286; A47C 7/66; A47C 7/282; A47C 7/744; A61G 1/04; B60N 2/6009; E04H 15/003; F16M 11/38

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

33,398 A 10/1861 Miller  
292,941 A \* 2/1884 Nunnelley ..... A47C 7/66  
297/184.17

(Continued)

FOREIGN PATENT DOCUMENTS

AU A 15170/92 12/1993  
CH 635 393 3/1983

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 60/467,698, May 1, 2003, Churchill.

*Primary Examiner* — Ricky Pham

(74) *Attorney, Agent, or Firm* — Knobbe Martens Olson & Bear, LLP

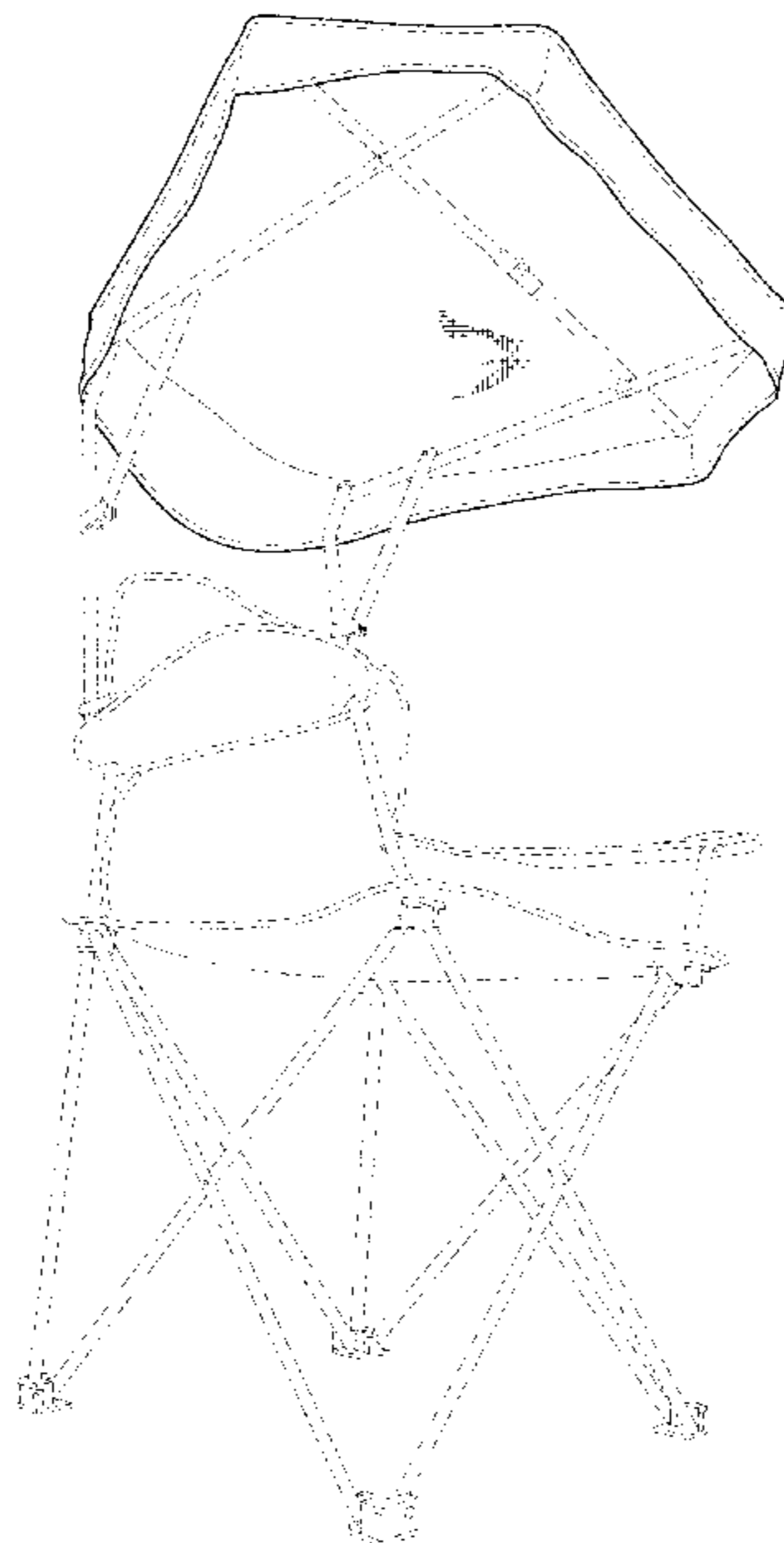
(57) **CLAIM**

The ornamental design for a shade cover, as shown and described.

**DESCRIPTION**

FIG. 1 is a bottom-oriented perspective view showing a bottom surface of a shade cover.  
FIG. 2 is a top-oriented perspective view showing a top surface of a shade cover of FIG. 1.  
FIG. 3 is a front view of the shade cover of FIG. 1.  
FIG. 4 is a rear view of the shade cover of FIG. 1.  
FIG. 5 is a left side view of the shade cover of FIG. 1.  
FIG. 6 is a right side view of the shade cover of FIG. 1.  
FIG. 7 is a top view of the shade cover of FIG. 1; and, FIG. 8 is a bottom view of the shade cover of FIG. 1.  
Where utilized, the broken lines show portions of the shade cover that form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

574,235 A	12/1896	Bennitt		4,063,318 A	12/1977	Nicholson	
900,572 A	10/1908	Morton		4,082,102 A	4/1978	Heuer	
914,774 A	3/1909	Zimmerman		4,123,095 A	10/1978	Stehlin	
1,024,176 A	4/1912	Boyens		4,174,900 A	11/1979	Ina	
1,075,372 A	10/1913	Overshiner		4,201,416 A	5/1980	Vanderminden	
1,238,646 A	8/1917	Dennis		4,248,255 A	2/1981	Arrowsmith	
1,256,902 A	2/1918	Howe		4,251,106 A	2/1981	Gilbert	
1,334,048 A	3/1920	Powers		D261,332 S	10/1981	Rohr	
1,341,689 A	6/1920	Walmsley		4,293,162 A	10/1981	Pap et al.	
1,429,043 A *	9/1922	Martin	A47C 7/66	4,295,481 A	10/1981	Gee	
			135/96	4,300,798 A	11/1981	Musgrove et al.	
1,443,921 A *	1/1923	William	A47C 7/66	4,445,590 A	5/1984	Ihrman	
			135/96	4,487,345 A	12/1984	Pierce et al.	
1,575,902 A	3/1926	Dial		4,497,092 A	2/1985	Hoshino	
1,593,431 A	7/1926	Buie		4,530,451 A	7/1985	Hamilton	
1,605,679 A	11/1926	McGrail		4,573,717 A	3/1986	Peacock	
1,639,074 A	8/1927	Blackwood		4,596,484 A	6/1986	Nakatani	
1,666,757 A	4/1928	Snyder		4,635,667 A	1/1987	Harn	
1,763,455 A	6/1930	Bruijn		4,639,036 A	1/1987	Nichols	
1,789,090 A	1/1931	Wawrunek		4,639,958 A	2/1987	Lerner	
1,846,011 A	2/1932	Adams		4,641,676 A	2/1987	Lynch	
1,915,504 A	6/1933	Stokby		4,641,883 A	2/1987	Kato	
2,001,252 A	5/1935	Johnson		D289,473 S	4/1987	Myers	
2,070,484 A	2/1937	Jones		4,687,248 A	8/1987	Ross et al.	
2,137,427 A	11/1938	Thomson		4,687,249 A	8/1987	Mills	
2,151,908 A	3/1939	Gottlieb		4,736,825 A	4/1988	Belfi	
2,166,832 A	7/1939	Wenker		4,744,690 A	5/1988	Hsieh	
2,243,984 A	6/1941	Singewald		4,761,092 A	8/1988	Nakatani	
2,265,479 A	12/1941	Goodman		4,773,574 A	9/1988	Burgard	
2,429,763 A	10/1947	Lindabury		4,779,635 A	10/1988	Lynch	
2,490,367 A	12/1949	Maddocks		4,795,068 A	1/1989	Blean	
2,545,968 A	3/1951	Newstead		4,796,734 A	1/1989	Distasic	
2,561,886 A *	7/1951	Rikelman	A47C 4/42	4,809,724 A	3/1989	Fuser	
			297/357	4,810,029 A	3/1989	Kaladis et al.	
2,571,382 A	10/1951	Raven		4,824,171 A	4/1989	Hollingsworth	
2,658,562 A	11/1953	Androsiglio		4,858,990 A	8/1989	Combs-Rose et al.	
D171,176 S	12/1953	Yellen		4,865,381 A	9/1989	Van Rogue	
2,689,603 A	9/1954	Smith		4,870,984 A	10/1989	Roth	
2,712,349 A	7/1955	Voir		4,885,812 A	12/1989	Lindner	
2,729,276 A	1/1956	Volney		4,889,383 A	12/1989	Jones	
2,747,653 A	5/1956	Obradovich		4,915,120 A	4/1990	Ziolkowski	
2,752,929 A *	7/1956	Berger	A47C 7/66	4,924,896 A	5/1990	Carter	
			135/120.2	4,932,622 A	6/1990	Hayakawa	
D180,210 S	4/1957	Uretsky		4,949,929 A	8/1990	Kesselman et al.	
2,819,776 A	1/1958	Balsam		D310,605 S	9/1990	Kwon	
2,849,249 A	8/1958	Fridolph		4,971,089 A	11/1990	Braman	
2,926,724 A	3/1960	Rittenberg		4,972,981 A	11/1990	Gex	
2,989,968 A	6/1961	Gunter		5,000,210 A	3/1991	Worthington, Jr.	
3,007,735 A	11/1961	Cohn		5,013,085 A	5/1991	Craig	
3,034,523 A	5/1962	De Shano		5,022,420 A	6/1991	Brim	
3,085,586 A	4/1963	McDonough		5,035,253 A	7/1991	Bortles	
3,092,224 A	6/1963	O'Neil		5,042,874 A	8/1991	Williams	
3,151,909 A	10/1964	Gerdetz		5,080,432 A	1/1992	Connell	
3,179,465 A	4/1965	Roberts		5,096,257 A	3/1992	Clark	
3,214,217 A	10/1965	Jente		5,102,190 A	4/1992	Akin et al.	
3,243,230 A	3/1966	Otto		5,135,281 A	8/1992	Pappalardo	
3,307,758 A	3/1967	Platt		5,139,308 A	8/1992	Ziman	
3,309,134 A	3/1967	Roberts		5,154,449 A	10/1992	Suei-Long	
3,333,595 A	8/1967	Bannister		5,154,473 A	10/1992	Joranco	
3,339,566 A	9/1967	Bowden		5,203,363 A *	4/1993	Kidwell	A47C 7/66
3,371,671 A	3/1968	Kirkham					135/90
3,404,915 A	10/1968	Filho		5,205,308 A	4/1993	Kendall et al.	
3,450,432 A	6/1969	Minsker		5,209,381 A	5/1993	Jay	
3,544,157 A	12/1970	Muller		5,240,020 A	8/1993	Byers	
3,580,633 A	5/1971	Du Priest		5,244,001 A	9/1993	Lynch	
3,621,857 A	11/1971	May et al.		5,244,250 A	9/1993	Nordmeyer	
3,637,086 A	1/1972	Klein		D339,937 S	10/1993	Ryan	
3,879,086 A	4/1975	Moceri		5,289,958 A	3/1994	Jay	
3,918,109 A	11/1975	Barracough		5,299,337 A	4/1994	Venza	
3,931,918 A	1/1976	Smith et al.		5,303,975 A	4/1994	Asato	
3,935,874 A	2/1976	Cohen		5,320,405 A	6/1994	Foster et al.	
3,947,903 A	4/1976	Menke		5,350,215 A	9/1994	DeMars	
4,029,279 A	6/1977	Nakatani		5,362,130 A	11/1994	Hoffman	
4,030,748 A	6/1977	Brock		5,387,048 A	2/1995	Kuo	
4,047,752 A	9/1977	Rohr		5,388,821 A	2/1995	Blackburn	
				5,395,157 A	3/1995	Rollo et al.	
				5,421,356 A	6/1995	Lynch	
				D360,535 S	7/1995	Sjoberg	
				5,433,502 A	7/1995	Condorodis et al.	

(56)

References Cited

U.S. PATENT DOCUMENTS

5,433,552 A	7/1995	Thyu	6,412,507 B1	7/2002	Carter	
5,441,067 A	8/1995	James et al.	6,471,289 B2	10/2002	Aguilar	
5,449,014 A	9/1995	Yan-ho	6,478,039 B2	11/2002	Suh	
5,485,863 A	1/1996	Carter	6,508,262 B1	1/2003	Takayama	
5,490,533 A	2/1996	Carter	6,516,821 B1	2/2003	Uemura	
5,511,572 A	4/1996	Carter	6,520,196 B2	2/2003	Carter	
5,516,193 A	5/1996	Simpson	6,520,574 B1	2/2003	Huang	
5,533,654 A	7/1996	Holty et al.	6,536,723 B1	3/2003	Nakatani	
5,538,318 A	7/1996	MacLean	6,547,324 B1	4/2003	Ammann, Jr.	
5,538,319 A	7/1996	DiMurro	6,551,226 B1	4/2003	Webber et al.	
5,544,793 A	8/1996	Harrop	6,575,656 B2	6/2003	Suh	
5,547,246 A	8/1996	Lambert	6,591,849 B1	7/2003	Swetish et al.	
5,551,110 A	9/1996	Armstrong et al.	6,655,736 B1	12/2003	Arenas	
5,551,669 A	9/1996	Reinklou	6,672,631 B1	1/2004	Weinhold	
5,564,452 A	10/1996	Kitchen	6,676,092 B2	1/2004	Tsai	
5,579,797 A	12/1996	Rogers	D487,297 S	3/2004	Tyler et al.	
5,582,458 A	12/1996	Wildt	6,698,827 B2	3/2004	Le Gette et al.	
5,593,205 A	1/1997	Vanderminden, Sr. et al.	6,712,083 B2	3/2004	Carter	
5,593,239 A	1/1997	Sallee	6,718,995 B2	4/2004	Dotterweich	
5,597,101 A	1/1997	Barber et al.	D494,769 S *	8/2004	Vigneaud .....	D6/368
5,626,271 A	5/1997	Messey et al.	6,779,538 B2	8/2004	Morgante et al.	
5,632,292 A	5/1997	Carter	6,789,557 B1	9/2004	Wahl, Jr.	
5,634,483 A	6/1997	Gwin	6,823,883 B1	11/2004	Sears	
5,638,851 A	6/1997	Baldwin	6,824,210 B2	11/2004	Zheng	
D380,306 S	7/1997	Lin	6,837,642 B1	1/2005	Lin	
D382,126 S	8/1997	Lee	6,845,780 B2	1/2005	Bishirjian	
D382,414 S	8/1997	Lee	6,899,383 B2	5/2005	Hwang	
5,695,100 A	12/1997	O'Brien	6,908,249 B2	6/2005	Tomm	
5,695,296 A	12/1997	Miura	6,913,231 B2	7/2005	Speggiorin	
5,718,473 A	2/1998	Lynch, Jr.	6,926,355 B2	8/2005	Le Gette et al.	
5,722,717 A	3/1998	Rittenberger	6,929,017 B2	8/2005	Byun	
5,794,640 A	8/1998	Jang	6,979,056 B1	12/2005	Goldszer	
5,797,650 A	8/1998	Gonzalez, Jr. et al.	6,981,510 B2	1/2006	Carter	
5,813,425 A	9/1998	Carter	7,040,832 B2	5/2006	Hsieh	
5,819,999 A	10/1998	Tennant	7,044,145 B2	5/2006	Bouchard	
5,833,310 A	11/1998	Labelle	7,044,146 B2	5/2006	Losi, Jr.	
5,873,625 A	2/1999	Uchtman	7,048,333 B2	5/2006	Martinez	
5,921,258 A	7/1999	Francois	D522,605 S	6/2006	Bishirjian	
5,934,301 A	8/1999	Carter	7,066,676 B2	6/2006	Tsai	
5,951,103 A	9/1999	Barnhill	7,097,380 B2	8/2006	Lee	
5,961,178 A	10/1999	Hodson	7,118,172 B1	10/2006	Pattison-Sheets	
5,967,601 A	10/1999	Gillins	7,168,759 B2	1/2007	Gallegos Geier	
5,975,626 A	11/1999	Aycock	7,198,324 B2	4/2007	Le Gette et al.	
5,984,406 A	11/1999	Lee	7,231,954 B2	6/2007	Green	
6,000,175 A	12/1999	Gale et al.	7,240,685 B2	7/2007	Seo	
6,035,877 A	3/2000	Losi, Jr. et al.	7,240,687 B2	7/2007	Carter	
6,036,262 A	3/2000	Shahid	7,243,990 B1 *	7/2007	Wahl .....	A47C 7/66 297/184.15
6,045,177 A	4/2000	Grace	7,252,108 B2	8/2007	Carter	
6,070,604 A	6/2000	Carter	7,261,263 B2	8/2007	Baker et al.	
6,082,813 A	7/2000	Chen	7,293,934 B1	11/2007	Huang	
6,089,247 A	7/2000	Price	7,296,584 B2	11/2007	Goldwitz	
6,095,172 A	8/2000	Trapp et al.	7,299,812 B2	11/2007	Carter	
6,102,479 A	8/2000	Wallace	7,299,813 B2	11/2007	Ochi	
6,112,757 A	9/2000	Tseng	7,302,745 B2	12/2007	Stahle	
6,129,102 A	10/2000	Carter	7,302,957 B2	12/2007	Ross	
6,131,593 A	10/2000	Greene et al.	7,311,355 B2	12/2007	Fargason, III	
6,142,699 A	11/2000	Pao	7,316,450 B2	1/2008	Ayers et al.	
6,148,835 A	11/2000	Rhee	7,350,532 B2	4/2008	Wu	
6,152,156 A	11/2000	Tung	7,373,708 B2	5/2008	Stahle et al.	
6,164,726 A	12/2000	Reeves et al.	7,374,238 B2	5/2008	Lingwall	
6,179,514 B1	1/2001	Cheng	7,380,563 B2	6/2008	Seo	
6,206,463 B1	3/2001	Whigham	7,395,830 B2	7/2008	Seo	
6,230,729 B1	5/2001	Carter	7,396,073 B2	7/2008	Zheng	
6,241,311 B1	6/2001	Zheng	7,409,963 B2	8/2008	Mallookis et al.	
6,250,712 B1	6/2001	Livingston et al.	7,422,009 B2	9/2008	Rummel et al.	
6,263,895 B1	7/2001	Bang	7,422,026 B2	9/2008	Kim	
6,264,271 B1	7/2001	Munn et al.	7,427,101 B1	9/2008	Zernov	
6,276,382 B1	8/2001	Bindschatel et al.	7,427,101 B1	9/2008	Seo	
6,283,136 B1	9/2001	Chen	7,428,908 B2	9/2008	Seo	
6,296,002 B1	10/2001	Tashchyan	7,431,389 B2	10/2008	Reeb et al.	
6,328,131 B1	12/2001	Backus	7,481,236 B2	1/2009	Carter	
6,354,044 B1	3/2002	Lagace, Jr.	7,494,296 B2	2/2009	Stahle	
6,363,956 B2	4/2002	Carter	RE40,657 E	3/2009	Suh	
6,371,553 B1	4/2002	Tang	7,527,331 B2	5/2009	Fargason, III	
6,405,742 B1	6/2002	Driscoll	7,566,095 B2 *	7/2009	Reeb .....	A47C 7/66 135/95
			7,568,307 B1	8/2009	Zimhoni et al.	
			7,637,276 B2	12/2009	Mallookis et al.	
			D612,624 S	3/2010	Lovley et al.	

(56)

References Cited

U.S. PATENT DOCUMENTS

7,673,643 B2 3/2010 Seo  
 7,703,469 B2 4/2010 Danzinger  
 7,735,504 B2 6/2010 Carter  
 7,753,063 B1 7/2010 Laws  
 7,753,064 B2 7/2010 Sy-Facunda  
 7,757,916 B1 7/2010 Petrie et al.  
 7,775,229 B2 8/2010 Sy-Facunda  
 7,784,480 B2 8/2010 Sy-Facunda  
 7,789,099 B2 9/2010 Mallookis et al.  
 D625,507 S \* 10/2010 Quinn ..... D3/5  
 7,806,381 B2 10/2010 Sisk Horne et al.  
 7,836,907 B2 11/2010 Carter  
 7,849,867 B2 12/2010 Takayama  
 7,874,303 B2 1/2011 Xie  
 7,921,864 B2 4/2011 Carter  
 7,922,416 B2 4/2011 Davis et al.  
 7,954,272 B2 6/2011 Potterfield et al.  
 7,967,259 B2 6/2011 Nakatani  
 7,975,712 B2 7/2011 Beacco  
 7,980,519 B2 7/2011 Chen  
 7,997,291 B2 8/2011 Gressette et al.  
 8,006,711 B2 8/2011 Pietrzak et al.  
 8,025,455 B2 9/2011 Huang et al.  
 D648,148 S \* 11/2011 Henry ..... D6/368  
 8,074,669 B2 12/2011 Collins et al.  
 8,075,217 B2 12/2011 Eason  
 8,079,380 B2 12/2011 Engstrom et al.  
 8,091,962 B2 1/2012 Quinn  
 8,128,306 B2 3/2012 Gorza  
 8,162,280 B2 4/2012 Yu et al.  
 8,185,979 B2 5/2012 Hentschel  
 8,186,755 B2 \* 5/2012 Lovley ..... A47C 7/66  
 135/119  
 8,191,744 B2 6/2012 Petrie et al.  
 8,220,477 B2 7/2012 Park  
 8,376,646 B2 2/2013 Melino et al.  
 8,408,225 B2 4/2013 Mallookis et al.  
 8,418,711 B2 4/2013 Park  
 8,464,379 B1 \* 6/2013 Zajac ..... A61G 1/04  
 5/113  
 8,590,553 B2 11/2013 Lovley et al.  
 8,608,118 B2 12/2013 Lai  
 8,616,226 B2 12/2013 Ma et al.  
 8,746,267 B2 6/2014 Lovley, II et al.  
 8,776,810 B2 7/2014 Lah et al.  
 D712,730 S 9/2014 Gridley  
 9,072,290 B1 \* 7/2015 McCauley ..... A01M 31/025  
 D736,884 S 8/2015 Lovley, II et al.  
 D737,066 S \* 8/2015 Lovley, II ..... D6/368  
 9,101,222 B2 \* 8/2015 Minkoff ..... A47C 7/744  
 9,103,138 B2 8/2015 Lovley, II  
 9,175,496 B2 \* 11/2015 Darquea ..... E04H 15/003  
 9,220,347 B2 \* 12/2015 Lovley, II ..... A47C 4/286  
 9,279,269 B2 3/2016 Lovley, II et al.  
 2002/0030146 A1 3/2002 Akaike  
 2002/0112752 A1 8/2002 Blakney  
 2003/0090904 A1 5/2003 Ching  
 2003/0164185 A1 9/2003 Price  
 2004/0084074 A1 5/2004 Chiu et al.  
 2004/0101351 A1 5/2004 Pitcher  
 2004/0178665 A1 \* 9/2004 May ..... A47C 1/143  
 297/16.1  
 2004/0182430 A1 9/2004 Seo  
 2004/0222678 A1 \* 11/2004 Hansen ..... A47C 4/286  
 297/184.1  
 2004/0238021 A1 12/2004 Holub et al.  
 2004/0255997 A1 12/2004 Seo  
 2004/0261828 A1 12/2004 Jang  
 2005/0028856 A1 2/2005 Seo  
 2005/0081904 A1 4/2005 Suzuki et al.  
 2005/0155637 A1 7/2005 Kim  
 2005/0178419 A1 8/2005 Tseng  
 2005/0178422 A1 8/2005 Wu  
 2005/0194030 A1 9/2005 Goldwitz  
 2005/0205124 A1 9/2005 Goldwitz

2005/0249545 A1 11/2005 Tsai  
 2006/0051159 A1 3/2006 Tsai  
 2006/0054207 A1 3/2006 Wootliff  
 2006/0062632 A1 3/2006 Jang  
 2006/0096631 A1 5/2006 Mallookis  
 2006/0144434 A1 7/2006 Chen  
 2006/0169311 A1 8/2006 Hwang  
 2006/0174929 A1 8/2006 Tseng  
 2006/0249192 A1 11/2006 Tsai et al.  
 2006/0260666 A1 11/2006 Choi  
 2007/0012346 A1 1/2007 Choi  
 2007/0018486 A1 1/2007 Ayers et al.  
 2007/0040422 A1 2/2007 Reeb et al.  
 2007/0051397 A1 3/2007 Choi  
 2007/0145792 A1 6/2007 Miller  
 2007/0181172 A1 8/2007 Harrison  
 2007/0204897 A1 9/2007 Habib et al.  
 2007/0221263 A1 9/2007 Tai  
 2007/0236058 A1 \* 10/2007 Yeider ..... A47C 7/66  
 297/184.1  
 2007/0240748 A1 10/2007 Bae  
 2008/0035194 A1 2/2008 Goldwitz  
 2008/0087313 A1 4/2008 Jang  
 2008/0121260 A1 5/2008 Stephens et al.  
 2009/0071521 A1 3/2009 Sy-Facunda  
 2009/0087251 A1 4/2009 Chen  
 2009/0218856 A1 9/2009 Sykes et al.  
 2009/0309394 A1 12/2009 Chen  
 2010/0064739 A1 3/2010 Lu  
 2010/0101617 A1 4/2010 Stehly  
 2010/0102600 A1 \* 4/2010 Lovley, II ..... A47C 4/286  
 297/184.15  
 2010/0269877 A1 10/2010 Sy-Facunda  
 2010/0275962 A1 11/2010 Park et al.  
 2011/0023924 A1 2/2011 Park  
 2011/0023925 A1 2/2011 Johnson et al.  
 2011/0073148 A1 3/2011 Choi  
 2011/0181078 A1 \* 7/2011 Kelly ..... A47C 7/66  
 297/16.1  
 2011/0192436 A1 8/2011 Gridley  
 2011/0240078 A1 10/2011 Lenhart et al.  
 2011/0259381 A1 10/2011 Adams  
 2011/0274481 A1 11/2011 Chen  
 2011/0284045 A1 \* 11/2011 Reeb ..... A45B 23/00  
 135/151  
 2011/0308559 A1 12/2011 Ma et al.  
 2012/0006373 A1 1/2012 Stehly  
 2012/0034023 A1 2/2012 Wang et al.  
 2012/0107037 A1 5/2012 Huang  
 2012/0146354 A1 6/2012 Lofley, Sr. et al.  
 2012/0175917 A1 7/2012 Chen  
 2012/0305042 A1 12/2012 Lorbiecki  
 2013/0069400 A1 3/2013 Nikolic  
 2013/0247948 A1 9/2013 Lovley, II et al.  
 2013/0284225 A1 10/2013 Holland et al.  
 2014/0158176 A1 6/2014 Lovley, II  
 2014/0174491 A1 6/2014 Yang  
 2014/0283891 A1 9/2014 Lovley, II et al.  
 2014/0306494 A1 \* 10/2014 Frankel ..... A47C 7/66  
 297/184.15  
 2015/0252587 A1 9/2015 Lovley, II  
 2015/0345172 A1 12/2015 Lovley, II

FOREIGN PATENT DOCUMENTS

CN 1104546 4/2003  
 CN 2705649 6/2005  
 CN 2880991 3/2007  
 CN 201216348 Y 4/2009  
 CN 102022609 A 4/2011  
 CN 202055611 U 11/2011  
 CN 202706662 U 1/2013  
 CN 2545298 4/2013  
 DE 26 55 028 A1 6/1978  
 DE 31 31 166 A1 2/1983  
 DE 35 360 49 A1 4/1987  
 DE 42 01 743 A1 10/1992  
 DE 10 2010 049 941 5/2012

(56)

**References Cited**

## FOREIGN PATENT DOCUMENTS

EP	0 564 326	10/1993
FR	532 496 A	2/1922
FR	2 691 619	12/1993
FR	2 805 559	8/2001
GB	2 052 960 A	2/1981
GB	2 091 648	8/1982
GB	2 216 850	10/1989
JP	58-129855	9/1983
JP	61-7351	1/1986
JP	7 207 962	8/1995
JP	3059720	7/2000
JP	2001-003604	1/2001
JP	2001-254535	9/2001
JP	2002-209663	7/2002
JP	2005-290837	10/2005
JP	2011-144606	7/2011
KR	10-2002-0048191	6/2002
KR	10-2004-0023115	3/2004
KR	20060001341	1/2006
KR	10-0886118	2/2009
KR	10-2011-0054253	5/2011
KR	10-2014-0135004	11/2014
SU	1174551	8/1985
WO	WO 82/01984	6/1982
WO	WO 91/14386	10/1991
WO	WO 94/23162	10/1994
WO	WO 96/39066	12/1996
WO	WO 2005/024158	3/2005
WO	WO 2007/018926	2/2007

\* cited by examiner

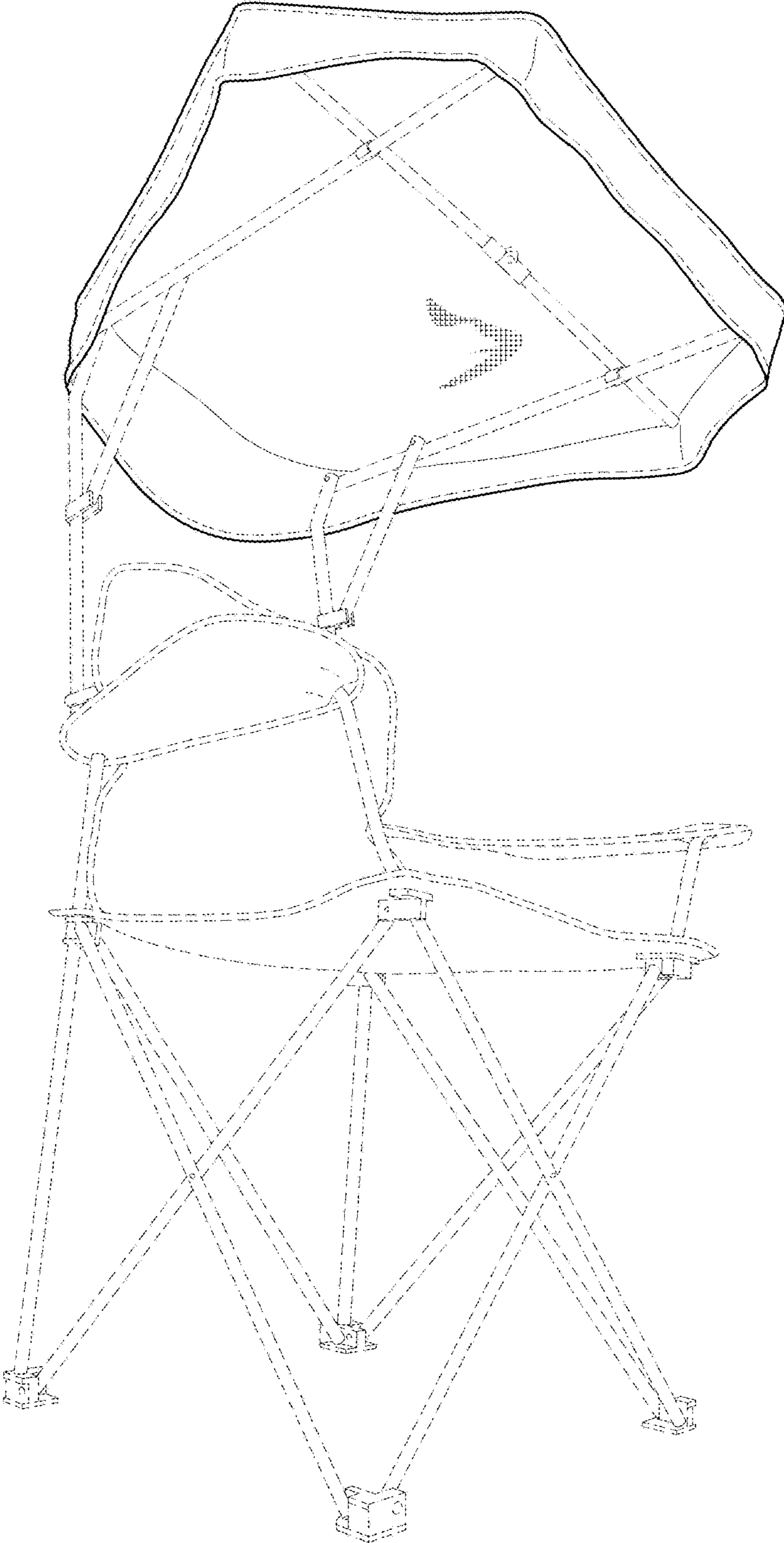


FIG. 1

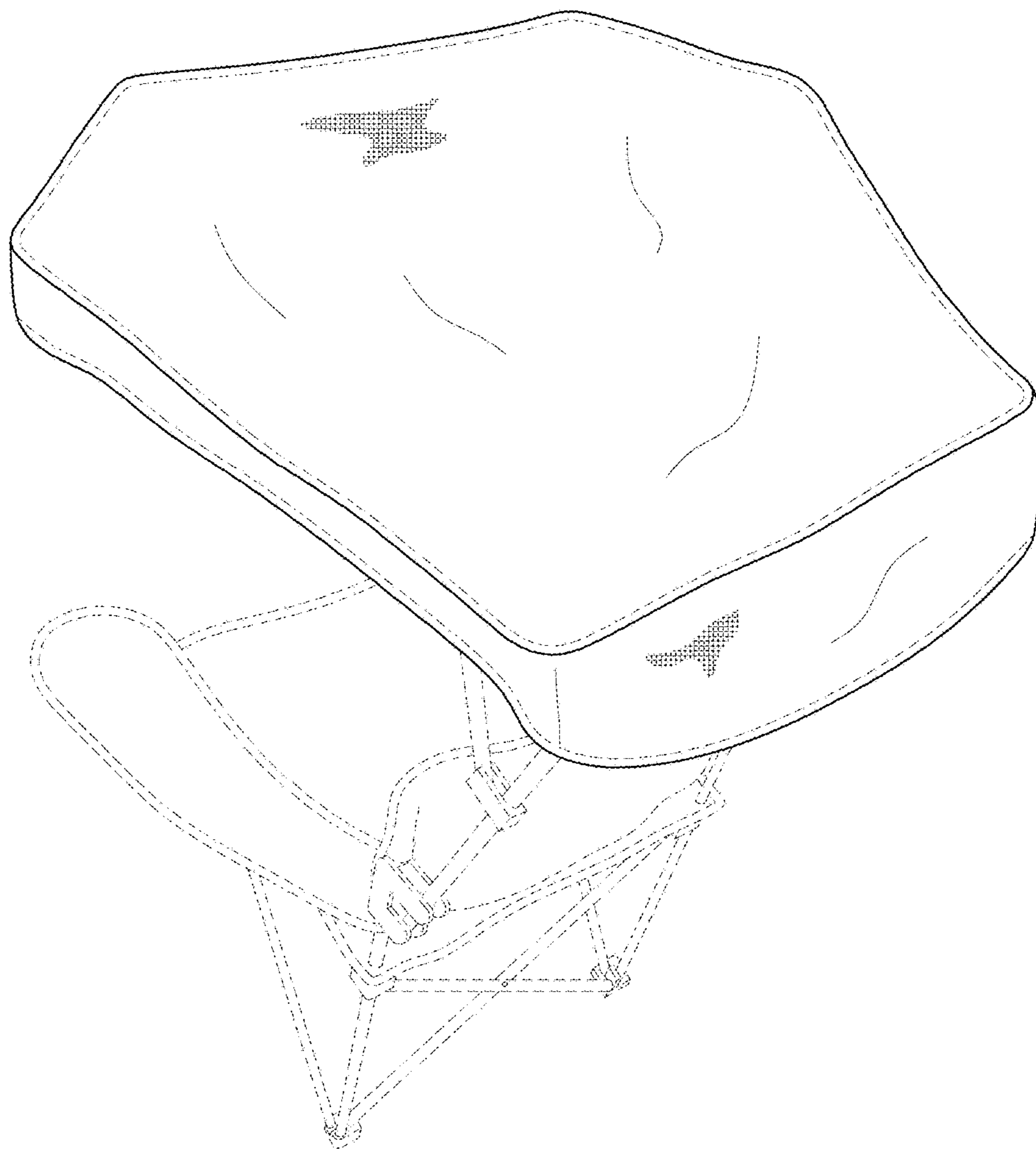


FIG. 2

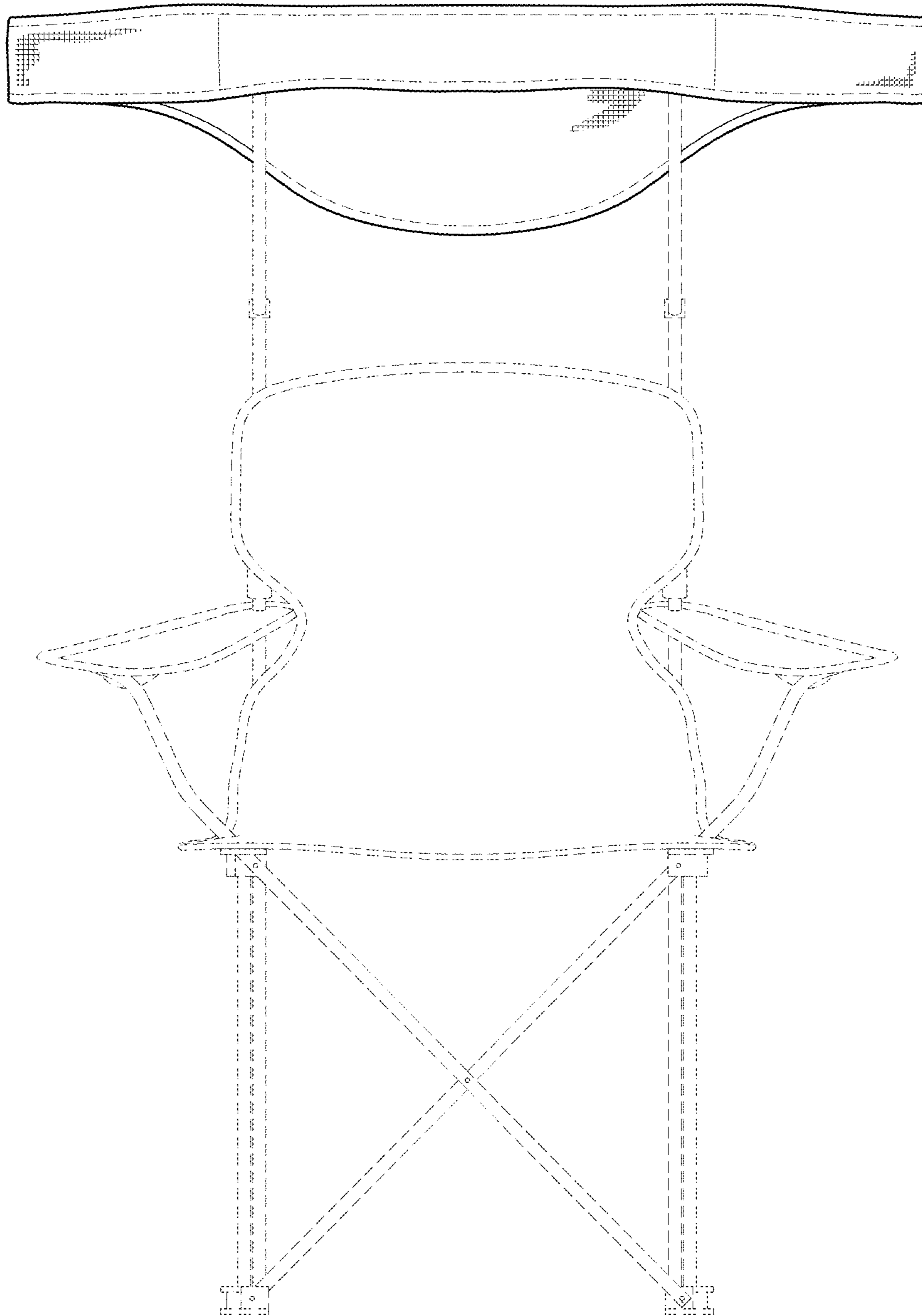


FIG. 3



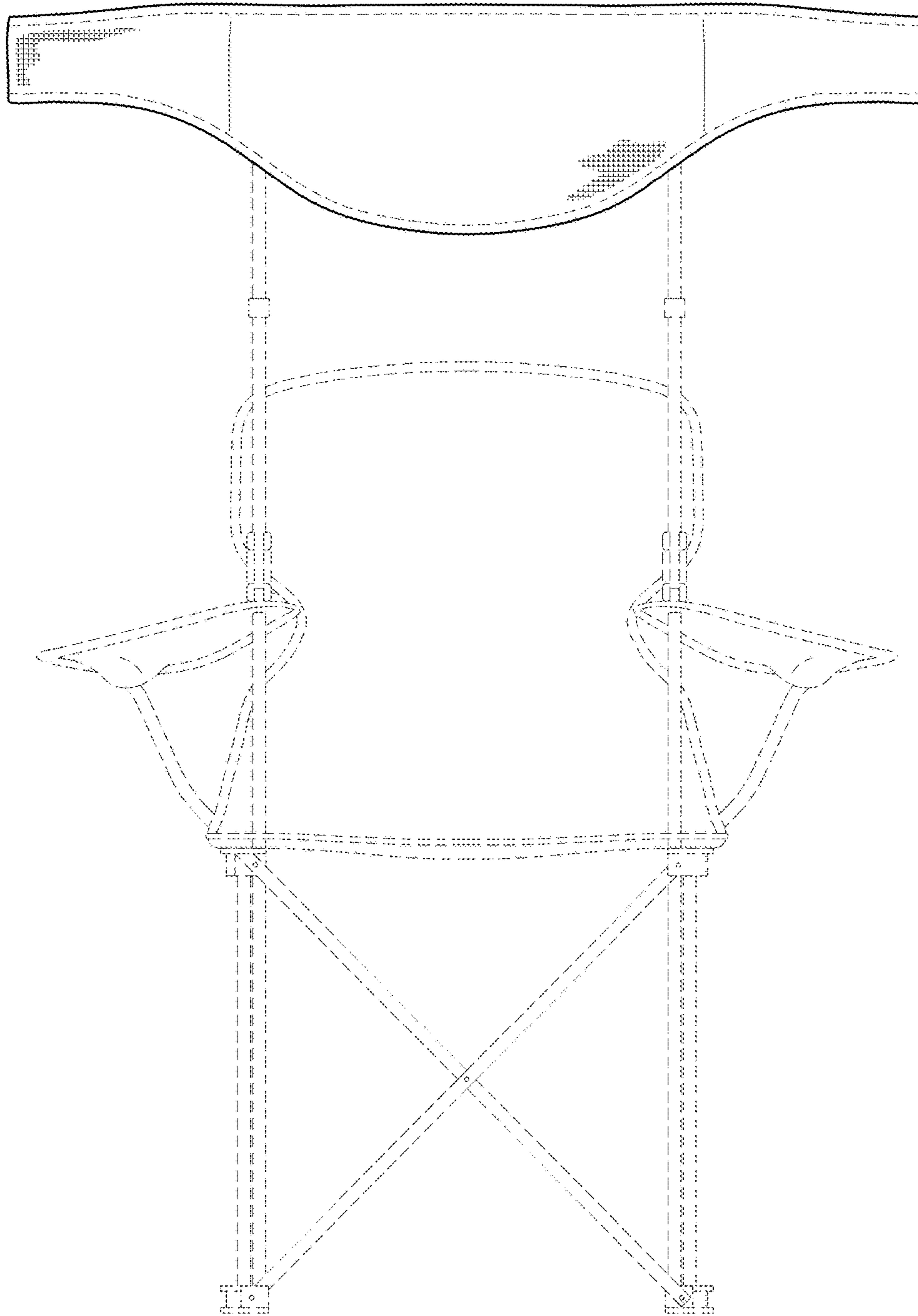


FIG. 4

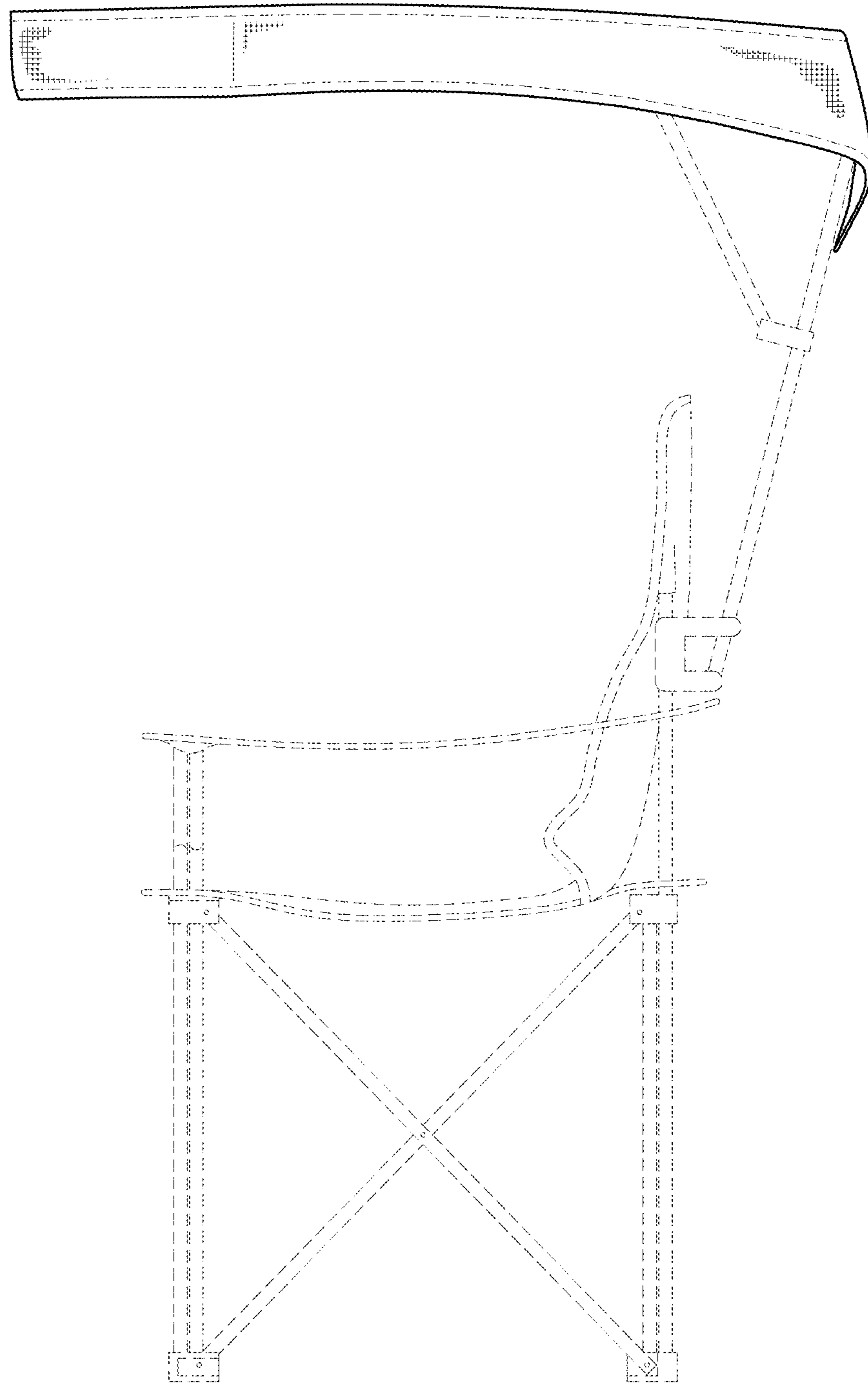


FIG. 5

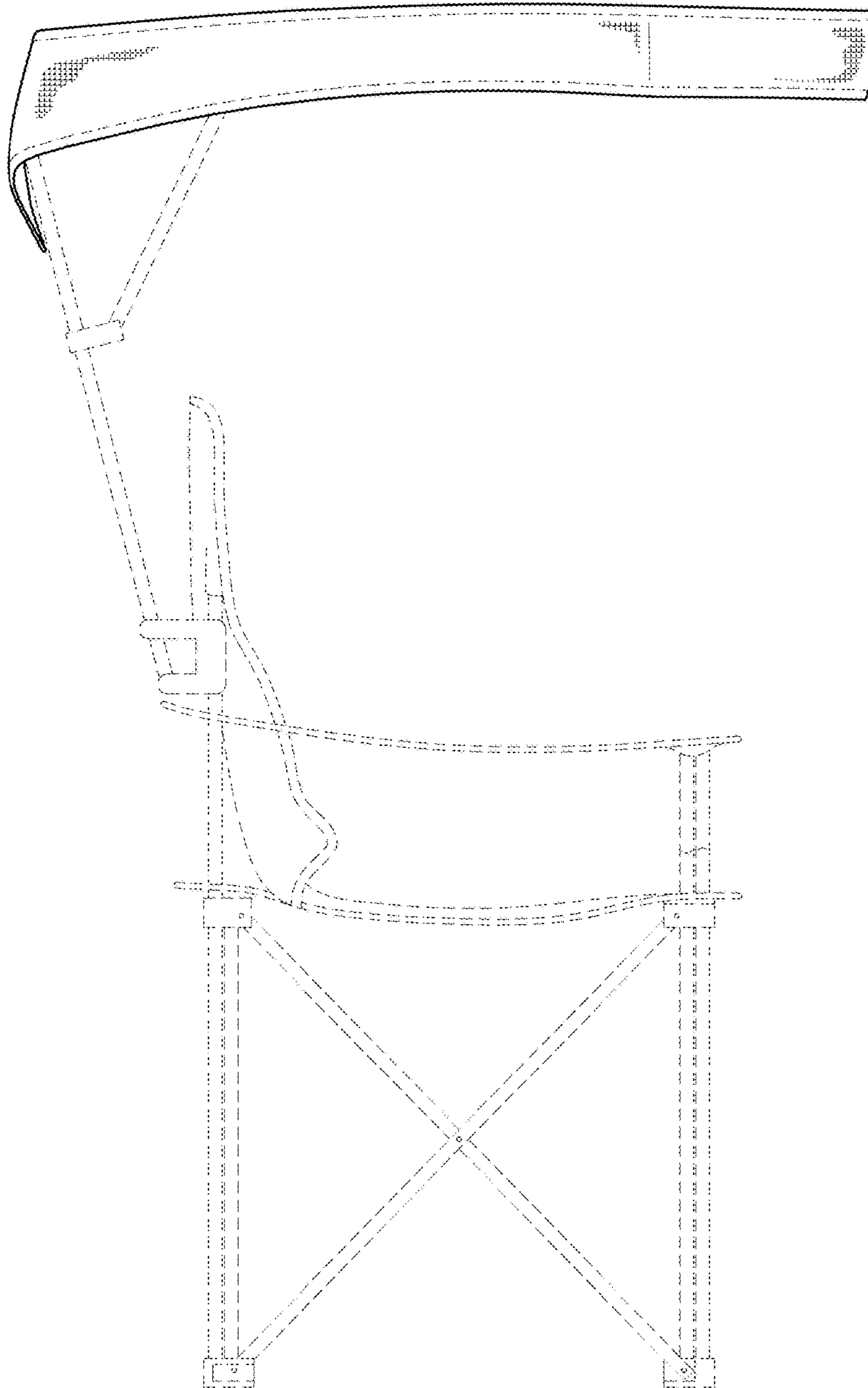


FIG. 6

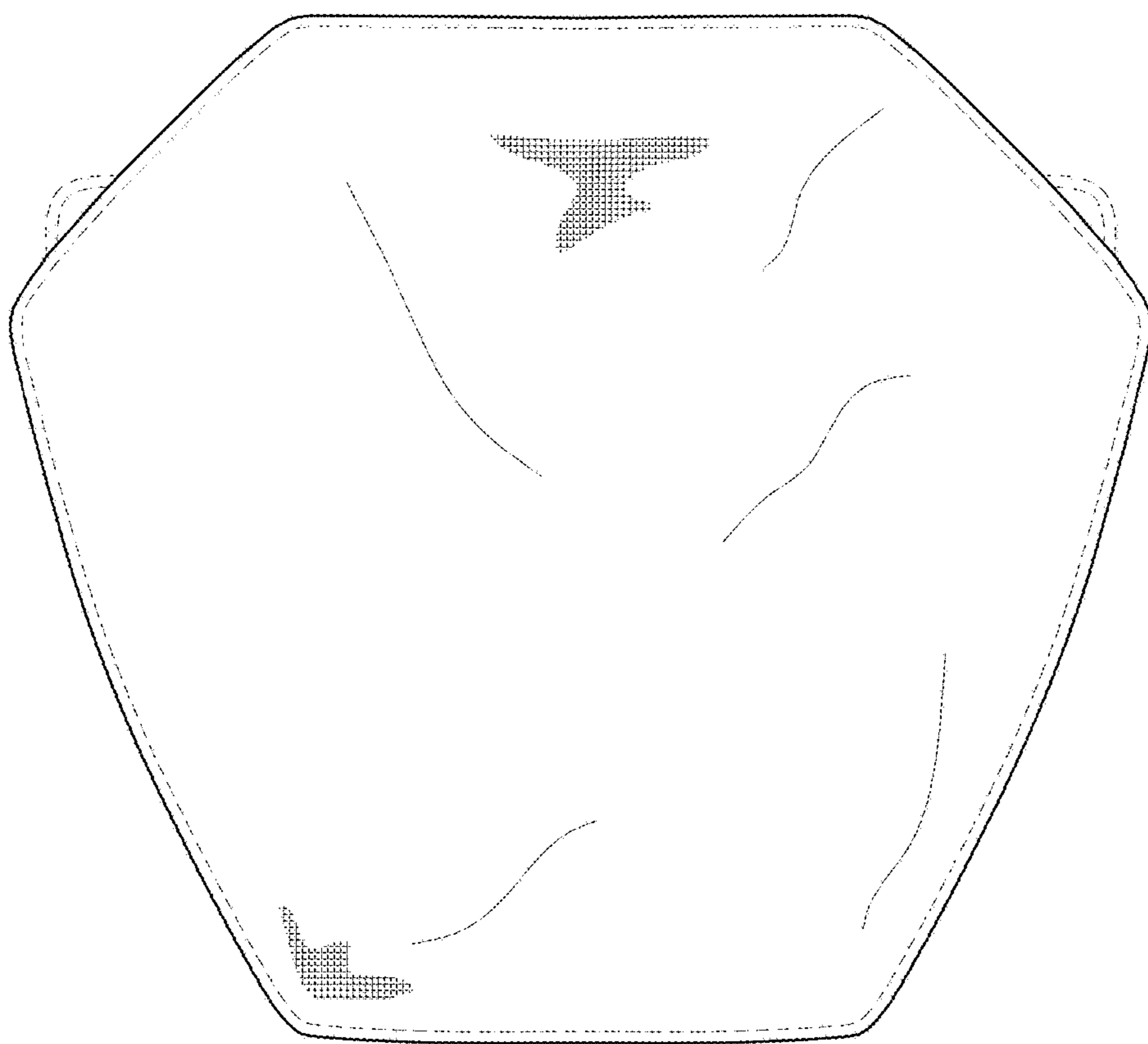


FIG. 7

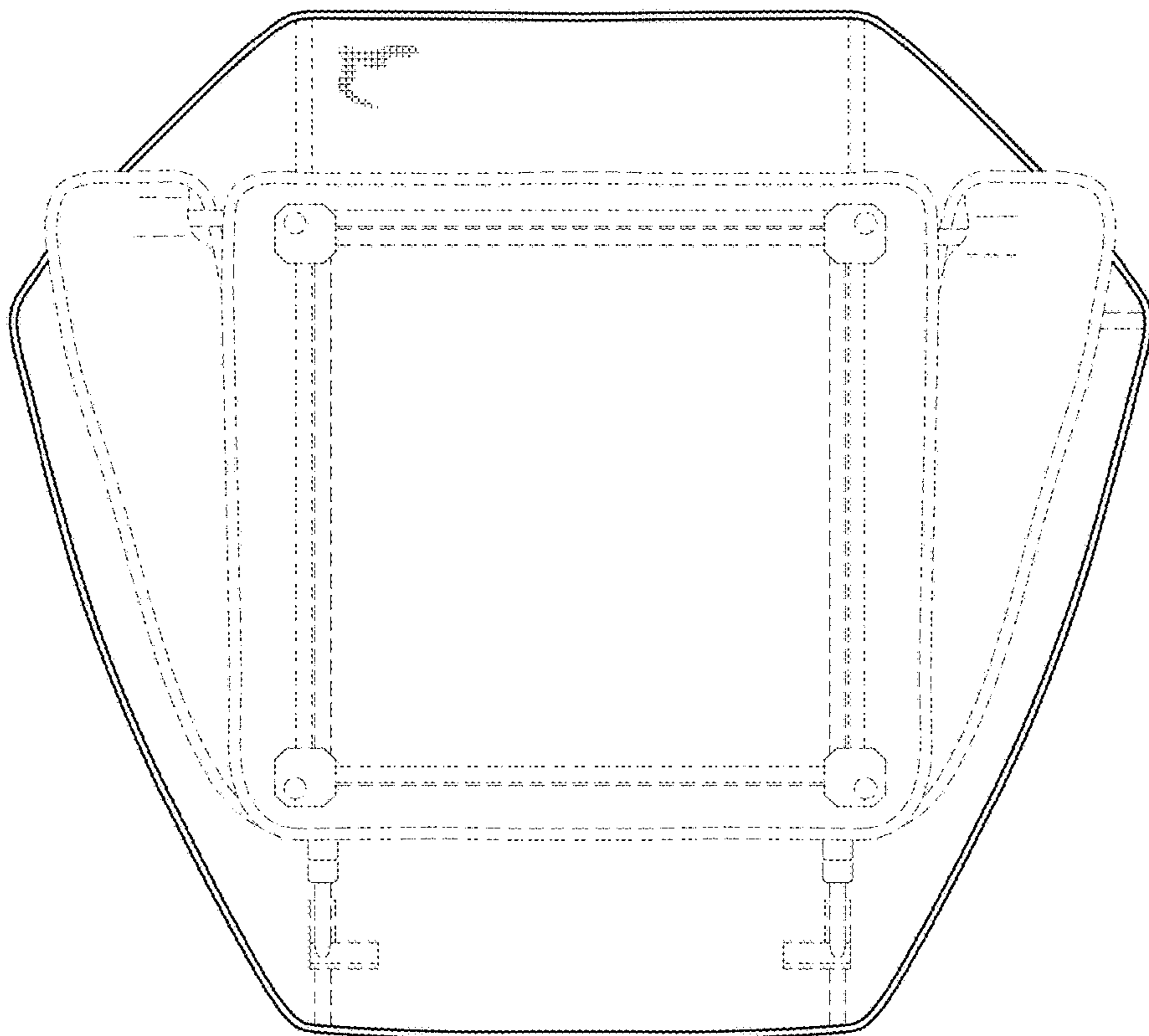


FIG. 8

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : D774,815 S  
APPLICATION NO. : 29/537208  
DATED : December 27, 2016  
INVENTOR(S) : Jack B. Lovley, II

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

Page 1 (item (73), Assignee) at Line 1, Change "Sante" to --Santa--.

Signed and Sealed this  
Thirtieth Day of May, 2017



Michelle K. Lee  
*Director of the United States Patent and Trademark Office*