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Hadlow et al.

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(54) **BUCKLE ASSEMBLY**
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2,938,254 A 5/1960 Gaylord
3,029,487 A 4/1962 Asai
3,084,411 A 4/1963 Lindblad
3,118,208 A 1/1964 Wexler
D198,566 S 7/1964 Holmberg
3,179,992 A 4/1965 Murphy, Sr.
3,218,685 A 11/1965 Atumi
3,226,791 A 1/1966 Carter
3,256,576 A 6/1966 Klove, Jr. et al.
3,262,169 A 7/1966 Jantzen

(Continued)

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FOREIGN PATENT DOCUMENTS

CA 2038505 A1 9/1991

(Continued)

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OTHER PUBLICATIONS

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See application file for complete search history.

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(57) **CLAIM**

The ornamental design for the buckle assembly, as shown and described.

(56) **References Cited**

DESCRIPTION

U.S. PATENT DOCUMENTS

906,045 A	12/1908	Martin
1,079,080 A	11/1913	Ward
1,438,898 A	12/1922	Carpmill
2,538,641 A	1/1951	Elsner
2,549,841 A	4/1951	Morrow at al.
2,639,852 A	5/1953	Sanders et al.
2,641,813 A	6/1953	Loxham
2,710,999 A	6/1955	Davis
2,763,451 A	9/1956	Moran
2,803,864 A	8/1957	Bishaf
2,846,745 A	8/1958	Lathrop
2,869,200 A	1/1959	Phillips et al.
2,876,516 A	3/1959	Cummings
2,893,088 A	7/1959	Harper et al.
2,901,794 A	9/1959	Prete, Jr.

FIG. 1 is an isometric view of an embodiment of a buckle assembly showing our new design.

FIG. 2 is a top plan view thereof.

FIG. 3 is a bottom plan view thereof.

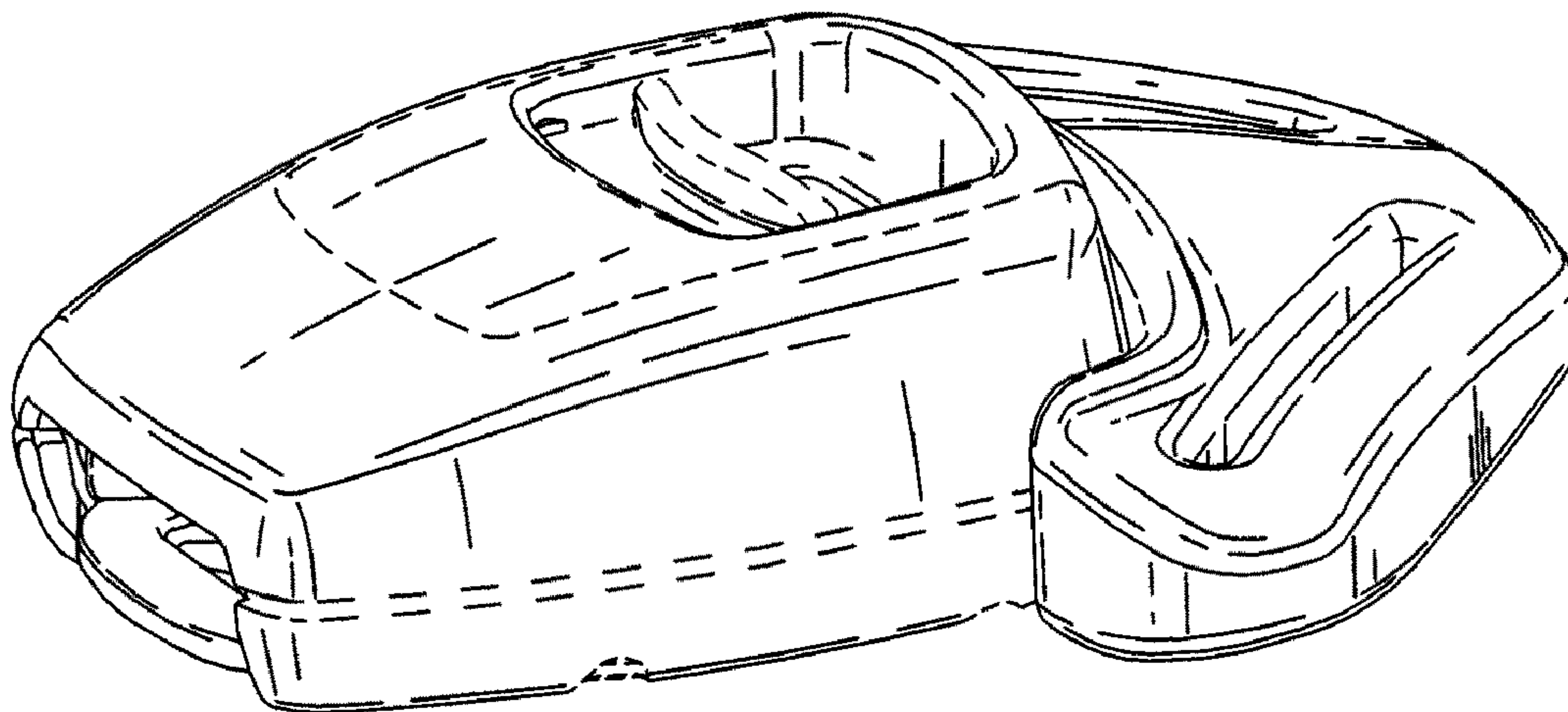
FIG. 4 is a left side elevation view thereof. The right side elevation view is a mirror image of the left side elevation view of the buckle assembly.

FIG. 5 is a front elevation view thereof; and,

FIG. 6 is a back elevation view thereof.

Elements identified in broken lines in the accompanying drawings form no part of the claimed invention.

1 Claim, 3 Drawing Sheets



US D661,619 S

Page 2

U.S. PATENT DOCUMENTS							
3,289,261	A	12/1966	Davis	D303,232	S	9/1989	Lortz et al.
3,312,502	A	4/1967	Coe	4,876,770	A	10/1989	Bougher
3,369,842	A	2/1968	Adams et al.	4,876,772	A	10/1989	Anthony et al.
3,414,947	A	12/1968	Holmberg et al.	4,911,377	A	3/1990	Lortz et al.
3,451,720	A	6/1969	Makinen	4,919,484	A	4/1990	Bougher et al.
3,491,414	A	1/1970	Stoffel	4,934,030	A	6/1990	Spinosa et al.
3,505,711	A	4/1970	Carter	4,940,254	A	7/1990	Ueno et al.
3,523,342	A	8/1970	Spires	4,942,649	A	7/1990	Anthony et al.
D218,589	S	9/1970	Lohr	4,995,640	A	2/1991	Saito et al.
3,564,672	A	2/1971	McIntyre	5,015,010	A	5/1991	Homeier et al.
3,591,900	A	7/1971	Brown	5,023,981	A	6/1991	Anthony et al.
3,605,207	A	9/1971	Glauser et al.	5,026,093	A	6/1991	Nishikaji
3,605,210	A	9/1971	Lohr	5,029,369	A	7/1991	Oberhardt et al.
3,631,571	A	1/1972	Stoffel	5,031,962	A	7/1991	Lee
3,639,948	A	2/1972	Sherman	5,038,446	A	8/1991	Anthony et al.
3,644,967	A	2/1972	Romanzi, Jr. et al.	5,039,169	A	8/1991	Bougher et al.
3,648,333	A	3/1972	Stoffel	5,067,212	A	11/1991	Ellis
3,673,645	A	7/1972	Burleigh et al.	5,074,011	A	12/1991	Carlson
3,678,542	A	7/1972	Prete, Jr.	5,084,946	A	2/1992	Lee
3,714,684	A	2/1973	Gley	5,088,160	A	2/1992	Warrick
3,760,464	A	9/1973	Higuchi	5,088,163	A	2/1992	van Riesen et al.
3,775,813	A	12/1973	Higuchi	D327,455	S	6/1992	Blair
3,825,979	A	7/1974	Jakob	5,119,532	A	6/1992	Tanaka et al.
3,879,810	A	4/1975	Prete, Jr. et al.	5,142,748	A	9/1992	Anthony et al.
3,935,618	A	2/1976	Fohl et al.	5,159,732	A	11/1992	Burke et al.
3,986,234	A	10/1976	Frost et al.	5,160,186	A	11/1992	Lee
4,051,743	A	10/1977	Gaylord	5,170,539	A	12/1992	Lundstedt et al.
D248,618	S	7/1978	Anthony	D332,433	S	1/1993	Bougher
4,100,657	A	7/1978	Minolla et al.	5,176,402	A	1/1993	Coulon
4,118,833	A	10/1978	Knox et al.	5,182,837	A	2/1993	Anthony et al.
4,128,924	A	12/1978	Happel et al.	5,219,206	A	6/1993	Anthony et al.
4,148,224	A	4/1979	Craig	5,219,207	A	6/1993	Anthony et al.
4,181,832	A	1/1980	Ueda et al.	5,220,713	A	6/1993	Lane, Jr. et al.
4,184,234	A	1/1980	Anthony et al.	D338,119	S	8/1993	Merrick
4,196,500	A	4/1980	Happel et al.	5,234,181	A	8/1993	Schroth et al.
4,220,294	A	9/1980	DiPaola	D342,465	S	12/1993	Anthony et al.
4,228,567	A	10/1980	Ikesue et al.	5,267,377	A	12/1993	Gillis et al.
4,239,260	A	12/1980	Hollowell	5,269,051	A	12/1993	McFalls
4,253,623	A	3/1981	Steger et al.	5,282,672	A	2/1994	Borlinghaus
4,262,396	A	4/1981	Koike et al.	5,282,706	A	2/1994	Anthony et al.
4,317,263	A	3/1982	Fohl et al.	5,283,933	A	2/1994	Wiseman et al.
4,321,734	A	3/1982	Gandelman	5,286,090	A	2/1994	Templin et al.
4,334,341	A	6/1982	Krautz et al.	5,292,181	A	3/1994	Dybro
4,336,636	A	6/1982	Ishiguro et al.	5,308,148	A	5/1994	Peterson et al.
4,366,604	A	1/1983	Anthony et al.	5,311,653	A	5/1994	Merrick
4,408,374	A	10/1983	Fohl et al.	5,369,855	A	12/1994	Tokugawa
4,419,874	A	12/1983	Brentini et al.	5,370,333	A	12/1994	Lortz et al.
4,425,688	A	1/1984	Anthony et al.	5,375,879	A	12/1994	Williams et al.
4,457,052	A	7/1984	Hauber	5,380,066	A	1/1995	Wiseman et al.
4,525,901	A	7/1985	Krauss	5,392,535	A	2/1995	Van Noy et al.
4,545,097	A	10/1985	Wier et al.	5,406,681	A	4/1995	Olson et al.
D285,383	S	9/1986	Anthony	D359,710	S	6/1995	Chinni et al.
4,617,705	A	10/1986	Anthony et al.	5,432,987	A	7/1995	Schroth
4,637,102	A	1/1987	Teder et al.	5,443,302	A	8/1995	Dybro
4,638,533	A	1/1987	Gloomis et al.	5,451,094	A	9/1995	Templin et al.
4,640,550	A	2/1987	Hakansson et al.	D364,124	S	11/1995	Lortz et al.
4,644,618	A	2/1987	Holmberg et al.	5,471,714	A	12/1995	Olson et al.
4,646,400	A	3/1987	Tanaka et al.	5,497,956	A	3/1996	Crook
4,648,483	A	3/1987	Skyba	5,511,856	A	4/1996	Merrick et al.
4,651,946	A	3/1987	Anthony et al.	5,516,199	A	5/1996	Crook et al.
4,660,889	A	4/1987	Anthony et al.	5,526,556	A	6/1996	Czank
4,679,852	A	7/1987	Anthony et al.	5,560,565	A	10/1996	Merrick et al.
4,682,791	A	7/1987	Ernst et al.	5,561,891	A	10/1996	Hsieh et al.
4,685,176	A	8/1987	Burnside et al.	5,566,431	A	10/1996	Haglund
4,692,970	A	9/1987	Anthony et al.	5,568,676	A	10/1996	Freeman
4,711,003	A	12/1987	Gelula	5,584,107	A	12/1996	Koyanagi et al.
4,716,630	A	1/1988	Skyba	5,588,189	A	12/1996	Gorman et al.
4,720,148	A	1/1988	Anthony et al.	5,606,783	A	3/1997	Gillis et al.
4,726,625	A	2/1988	Bougher	5,622,327	A	4/1997	Heath et al.
4,727,628	A	3/1988	Rudholm et al.	5,628,548	A	5/1997	Lacoste
D296,678	S	7/1988	Lortz et al.	5,634,664	A	6/1997	Seki et al.
4,757,579	A	7/1988	Nishino et al.	5,669,572	A	9/1997	Crook
4,766,654	A	8/1988	Sugimoto	5,695,243	A	12/1997	Anthony et al.
4,790,597	A	12/1988	Bauer et al.	5,699,594	A	12/1997	Czank et al.
4,809,409	A	3/1989	Van Riesen et al.	D389,426	S	1/1998	Merrick et al.
4,832,410	A	5/1989	Bougher	5,743,597	A	4/1998	Jessup et al.
4,843,688	A	7/1989	Ikeda et al.	5,774,947	A	7/1998	Anscher
4,854,608	A	8/1989	Barral et al.	5,779,319	A	7/1998	Merrick
				D397,063	S	8/1998	Woellert et al.

US D661,619 S

5,794,878 A	8/1998	Carpenter et al.	6,913,288 B2	7/2005	Schulz et al.
5,813,097 A	9/1998	Woellert et al.	6,916,045 B2	7/2005	Clancy, III et al.
5,839,793 A	11/1998	Merrick et al.	6,921,136 B2	7/2005	Bell et al.
5,873,635 A	2/1999	Merrick	6,935,701 B1	8/2005	Arnold et al.
D407,667 S	4/1999	Homeier	6,957,789 B2	10/2005	Bowman et al.
5,908,223 A	6/1999	Miller	6,959,946 B2	11/2005	Desmarais et al.
5,915,630 A	6/1999	Step	6,962,394 B2	11/2005	Anthony et al.
5,934,760 A	8/1999	Schroth et al.	6,966,518 B2	11/2005	Kohlndorfer et al.
D416,827 S	11/1999	Anthony et al.	6,969,022 B2	11/2005	Bell et al.
5,979,026 A	11/1999	Anthony	6,969,122 B2	11/2005	Sachs et al.
5,979,982 A	11/1999	Nakagawa	6,993,436 B2	1/2006	Specht et al.
5,996,192 A	12/1999	Haines et al.	6,997,479 B2	2/2006	Desmarais et al.
6,003,899 A	12/1999	Chaney	7,010,836 B2	3/2006	Acton et al.
6,017,087 A	1/2000	Anthony et al.	D519,406 S *	4/2006	Merrill et al. D11/216
6,056,320 A	5/2000	Khalifa et al.	7,025,297 B2	4/2006	Bell et al.
6,065,367 A	5/2000	Schroth et al.	7,029,067 B2	4/2006	Vits et al.
6,065,777 A	5/2000	Merrick	7,040,696 B2	5/2006	Vits et al.
6,123,388 A	9/2000	Vits et al.	7,077,475 B2	7/2006	Boyle
RE37,123 E	4/2001	Templin et al.	7,080,856 B2	7/2006	Desmarais et al.
6,230,370 B1	5/2001	Nelsen	7,100,991 B2	9/2006	Schroth et al.
6,260,884 B1	7/2001	Bittner et al.	7,118,133 B2	10/2006	Bell et al.
6,295,700 B1	10/2001	Plzak	7,131,667 B2	11/2006	Bell et al.
6,309,024 B1	10/2001	Busch	7,137,648 B2	11/2006	Schulz et al.
6,312,015 B1	11/2001	Merrick et al.	7,137,650 B2	11/2006	Bell et al.
6,315,232 B1	11/2001	Merrick	7,144,085 B2	12/2006	Vits et al.
6,322,140 B1	11/2001	Jessup et al.	7,147,251 B2	12/2006	Bell et al.
6,328,379 B1	12/2001	Merrick et al.	D535,214 S *	1/2007	Kolasa D11/216
6,363,591 B1	4/2002	Bell et al.	7,159,285 B2	1/2007	Karlsson et al.
6,374,168 B1	4/2002	Fujii	7,180,258 B2	2/2007	Specht et al.
6,400,145 B1	6/2002	Chamings et al.	7,182,370 B2	2/2007	Arnold
6,412,863 B1	7/2002	Merrick et al.	7,210,707 B2	5/2007	Schroth et al.
6,418,596 B2	7/2002	Haas et al.	7,219,929 B2	5/2007	Bell et al.
6,425,632 B1	7/2002	Anthony et al.	7,232,154 B2	6/2007	Desmarais et al.
6,442,807 B1	9/2002	Adkisson	7,237,741 B2	7/2007	Specht et al.
6,446,272 B1	9/2002	Lee et al.	7,240,924 B2	7/2007	Kohlndorfer et al.
6,463,638 B1	10/2002	Pontaoe	7,246,854 B2	7/2007	Dingman et al.
6,467,849 B1	10/2002	Deptolla et al.	7,263,750 B2	9/2007	Keene et al.
6,485,057 B1	11/2002	Midorikawa et al.	7,278,684 B2	10/2007	Boyle
6,485,098 B1	11/2002	Vits et al.	D555,358 S	11/2007	King
6,508,515 B2	1/2003	Vits et al.	7,300,013 B2	11/2007	Morgan et al.
6,513,208 B1	2/2003	Sack et al.	7,341,216 B2	3/2008	Heckmayr et al.
6,543,101 B2	4/2003	Sack et al.	7,360,287 B2	4/2008	Cerruti et al.
6,547,273 B2	4/2003	Grace et al.	7,367,590 B2	5/2008	Koning et al.
6,560,825 B2	5/2003	Maciejczyk et al.	7,377,464 B2	5/2008	Morgan
6,566,869 B2	5/2003	Chamings et al.	7,384,014 B2	6/2008	Ver Hoven et al.
6,588,077 B2	7/2003	Katsuyama et al.	7,395,585 B2	7/2008	Longley et al.
6,619,753 B2	9/2003	Takayama	7,404,239 B1	7/2008	Walton et al.
6,631,926 B2	10/2003	Merrick et al.	D578,931 S	10/2008	Toltzman et al.
6,665,912 B2	12/2003	Turner et al.	7,452,003 B2	11/2008	Bell
6,694,577 B2	2/2004	Di Perrero et al.	7,455,256 B2	11/2008	Morgan
6,711,790 B2	3/2004	Pontaoe	7,461,866 B2	12/2008	Desmarais et al.
6,719,233 B2	4/2004	Specht et al.	7,475,840 B2	1/2009	Heckmayr
6,719,326 B2	4/2004	Schroth et al.	7,481,399 B2	1/2009	Nohren et al.
6,722,601 B2	4/2004	Kohlndorfer et al.	7,506,413 B2	3/2009	Dingman et al.
6,722,697 B2	4/2004	Krauss et al.	7,520,036 B1	4/2009	Baldwin et al.
6,733,041 B2	5/2004	Arnold et al.	D592,543 S *	5/2009	Kolasa D11/216
6,739,541 B2	5/2004	Palliser et al.	7,533,902 B2	5/2009	Arnold et al.
6,749,150 B2	6/2004	Kohlndorfer et al.	7,631,830 B2	12/2009	Boelstler et al.
6,763,557 B2	7/2004	Steiff et al.	7,669,794 B2	3/2010	Boelstler et al.
6,769,157 B1	8/2004	Meal	7,739,019 B2	6/2010	Robert et al.
6,786,294 B2	9/2004	Specht et al.	7,775,557 B2	8/2010	Bostrom et al.
6,786,510 B2	9/2004	Roychoudhury et al.	RE41,790 E	10/2010	Stanley
6,786,511 B2	9/2004	Heckmayr et al.	7,861,341 B2	1/2011	Ayette et al.
6,796,007 B1	9/2004	Anscher	7,862,124 B2	1/2011	Dingman
6,802,470 B2	10/2004	Smithson et al.	D632,611 S *	2/2011	Buscart D11/216
6,820,310 B2	11/2004	Woodard et al.	D637,518 S *	5/2011	Chen D11/216
6,834,822 B2	12/2004	Koning et al.	2002/0089163 A1	7/2002	Bedewi et al.
6,836,754 B2	12/2004	Cooper	2002/0135175 A1	9/2002	Schroth
6,840,544 B2	1/2005	Prentkowski	2003/0027917 A1	2/2003	Namiki et al.
6,857,326 B2	2/2005	Specht et al.	2005/0127660 A1	6/2005	Liu
6,860,671 B2	3/2005	Schulz	2005/0284977 A1	12/2005	Specht et al.
6,863,235 B2	3/2005	Koning et al.	2006/0075609 A1	4/2006	Dingman et al.
6,863,236 B2	3/2005	Kempf et al.	2006/0237573 A1	10/2006	Boelstler et al.
6,868,585 B2	3/2005	Anthony et al.	2006/0277727 A1	12/2006	Keene et al.
6,868,591 B2	3/2005	Dingman et al.	2007/0241549 A1	10/2007	Boelstler et al.
6,871,876 B2	3/2005	Xu	2007/0257480 A1	11/2007	Van Druff et al.
6,874,819 B2	4/2005	O'Neill	2008/0100051 A1	5/2008	Bell et al.
6,882,914 B2	4/2005	Gioutsos et al.	2008/0100122 A1	5/2008	Bell et al.
6,886,889 B2	5/2005	Vits et al.	2008/0172847 A1	7/2008	Keene et al.

2009/0241305 A1 10/2009 Buckingham
 2010/0115737 A1 5/2010 Foubert
 2010/0125983 A1 5/2010 Keene et al.
 2010/0146749 A1 6/2010 Jung

FOREIGN PATENT DOCUMENTS

CA 2091526 A1 10/1993
 CA 2112960 A1 7/1994
 CA 2450744 A1 2/2003
 DE 4421688 12/1995
 DE 69019765 2/1996
 EP 0363062 A2 4/1990
 EP 0380442 8/1990
 EP 0401455 A1 12/1990
 EP 0404730 A1 12/1990
 EP 0449772 A1 10/1991
 EP 0519296 A1 12/1992
 EP 0561274 A1 9/1993
 EP 0608564 8/1994
 EP 1153789 11/2001
 EP 1447021 A1 8/2004
 GB 1047761 11/1966
 GB 2055952 A 3/1981
 JP 10119611 A 5/1998
 WO WO-8603386 6/1986
 WO WO-03009717 A2 2/2003
 WO WO-2004004507 A1 1/2004
 WO WO-2006041859 A2 4/2006
 WO WO-2010/027853 A1 3/2010

OTHER PUBLICATIONS

U.S. Appl. No. 12/569,522, Humbert.
 U.S. Appl. No. 29/297,210, Toltzman.
 Sabelt, "RO1000: Fiberglass-plastic buckle with metal pin latch." Accessed Sep. 15, 2010. www.sabelt.com (1 page). Published on or before Sep. 9, 2010.
 Sabelt, "Daphne 0: Fiberglass-plastic buckle with metal pin latch." Accessed Sep. 15, 2010. www.sabelt.com (1 page). Published on or before Sep. 9, 2010.
 Novarace, "GT 3: Group 0 Buckle." Accessed Sep. 15, 2010. www.novarace.com (1 page). Published on or before Sep. 9, 2010.
 Novarace, "GT 5: Group 0 Buckle." Accessed Sep. 15, 2010. www.novarace.com (1 page). Published on or before Sep. 9, 2010.
 Holmbergs, "Infant buckle with steel tongues." Accessed Sep. 15, 2010. www.holmbergs.se. (1 page). Published on or before Sep. 9, 2010.

Holmbergs, "Gr. 0+ 3-point buckle with plastic chassi and tongues." Accessed Sep. 15, 2010. www.holmbergs.se. (1 page). Published on or before Sep. 9, 2010.
 Holmbergs, "Infant buckle. 5-point with plastic chassi and plastic tongues." Accessed Sep. 15, 2010. www.holmbergs.se. (1 page). Published on or before Sep. 9, 2010.
 Sabelt, "SAB004: Fiberglass-plastic buckle with metal pin latch." Accessed Sep. 15, 2010. www.sabelt.com. (1 page). Published on or before Sep. 9, 2010.
 Sabelt, "SABUSA004: Fiberglass-plastic buckle with metal pin latch." Accessed Sep. 15, 2010. www.sabelt.com. (1 page). Published on or before Sep. 9, 2010.
 Holmbergs, "Group 1 Systems." Accessed Sep. 15, 2010. www.holmbergs.se. (1 page). Published on or before Sep. 9, 2010.
 Novarace, "GT: Group 1 Buckle." Accessed Oct. 8, 2010. www.novarace.com. (1 page). Published on or before Sep. 9, 2010.
 Novarace, "KMA 1: Group 1 Buckle." Accessed Sep. 15, 2010. www.novarace.com. (1 page). Published on or before Sep. 9, 2010.
 Sabelt Catalog, "SAB104: Standard tongue hole to facilitate webbing insert," p. 23 (1 page). Published on or before Sep. 9, 2010.
 Britax, "Compaq: Convertible Car Seats." Buckle Image. Accessed Oct. 12, 2010. (2 pages). This has been publicly available for at least one year prior to this application's filing date.
 Holmbergs, "Art.No. 63/4959-XX and 63/4958-XX GR.1 Buckle, 3/5 point." Accessed Sep. 15, 2010. www.holmbergs.se. (2 pages). Published on or before Sep. 9, 2010.
 Novarace, "DL: Group 1 Buckle." Accessed Sep. 15, 2010. www.novarace.com. (1 page). Published on or before Sep. 9, 2010.
 Holmbergs, "GR. 1 Buckle, Viking." Accessed Sep. 15, 2010. www.holmbergs.se. (1 page). Published on or before Sep. 9, 2010.
 Global Seating Systems LLC, "CCOPS," Cobra: Soldier Survival System, 1 page, undated. [Color Copy].
 International Search Report and Written Opinion, PCT Application No. PCT/US2006/22367; Applicant: AmSafe, Inc.; Date of Mailing: Sep. 18, 2006, 6 pages.
 International Search Report and Written Opinion; PCT Application No. PCT/US2009/31613; Applicant: AmSafe Commercial Products, Inc.; Date of Mailing: Mar. 3, 2009, 11 pages.
 Schroth Safety Products, Installation Instructions, HMMWV Gunner restraint, Single Lower with Swivel—M1151, Revision: A, Jul. 28, 2006, pp. 1-10.

* cited by examiner

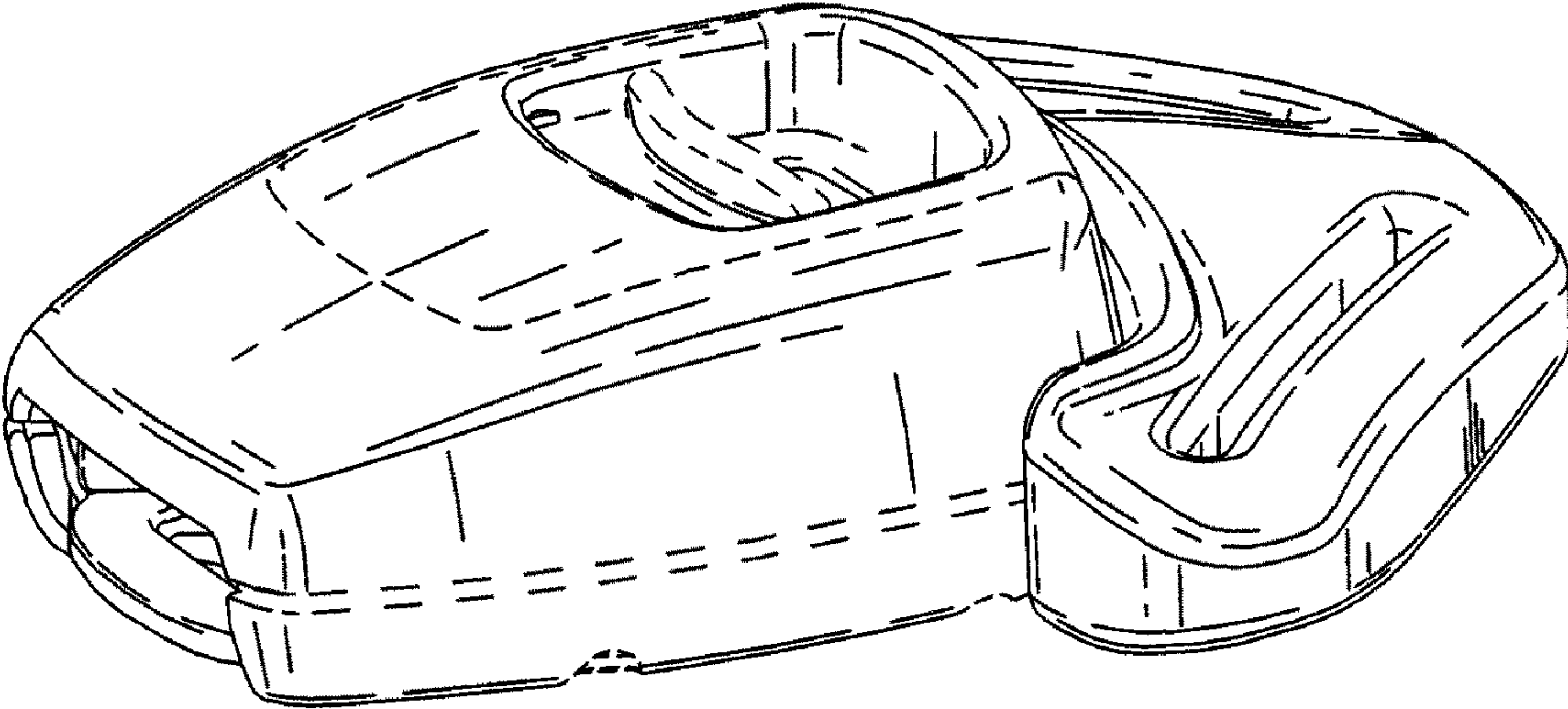


Fig. 1

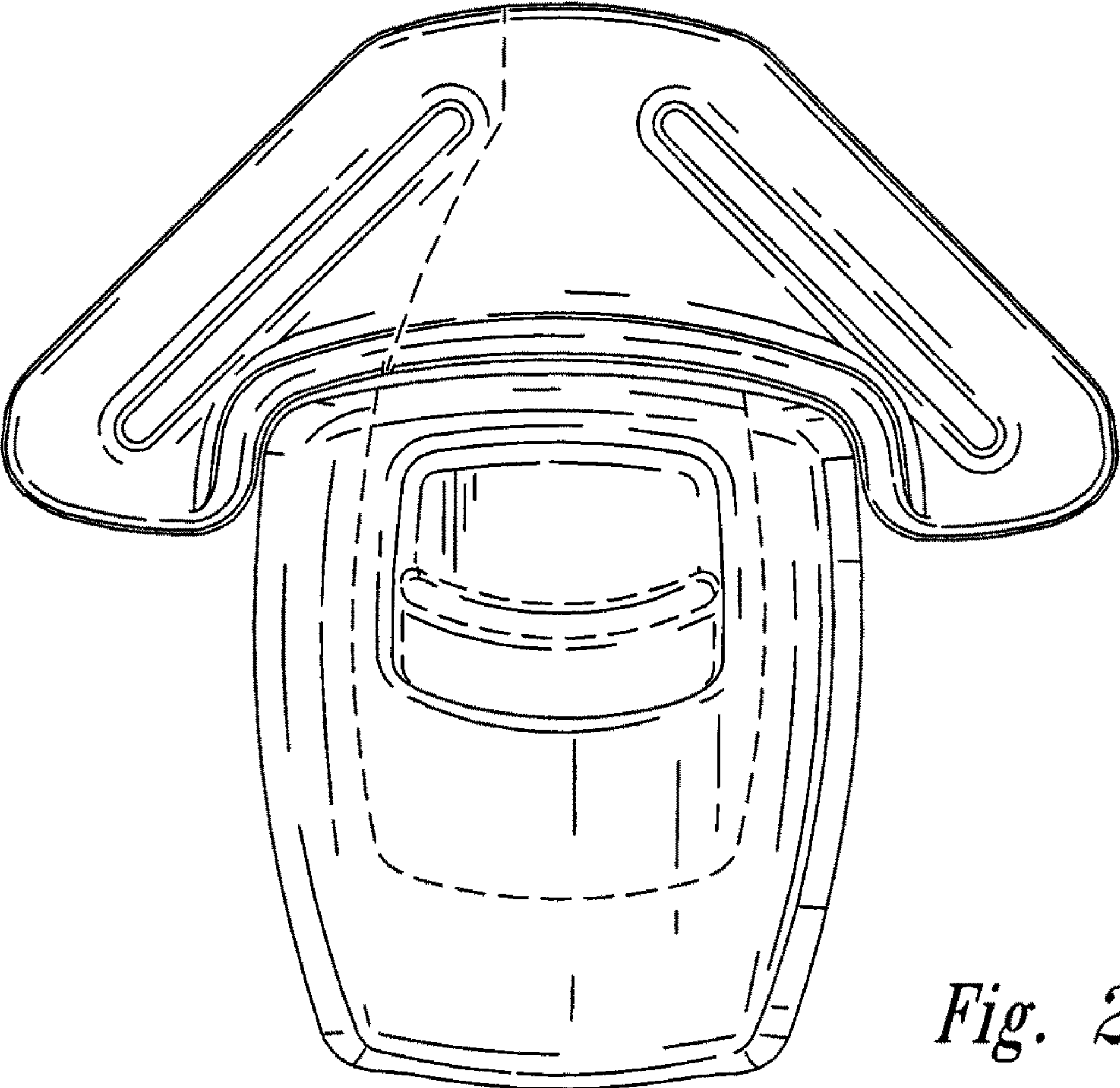


Fig. 2

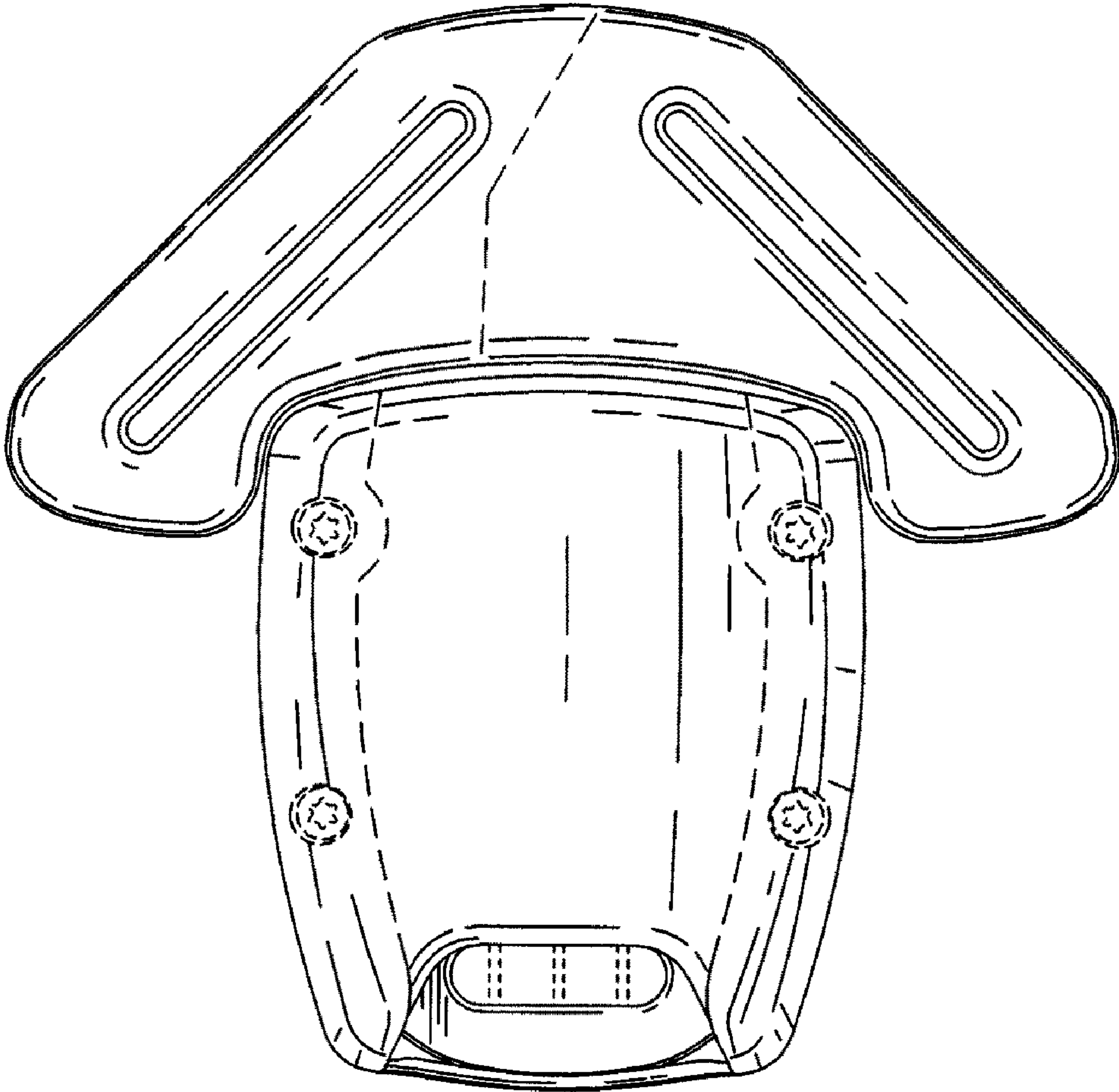


Fig. 3

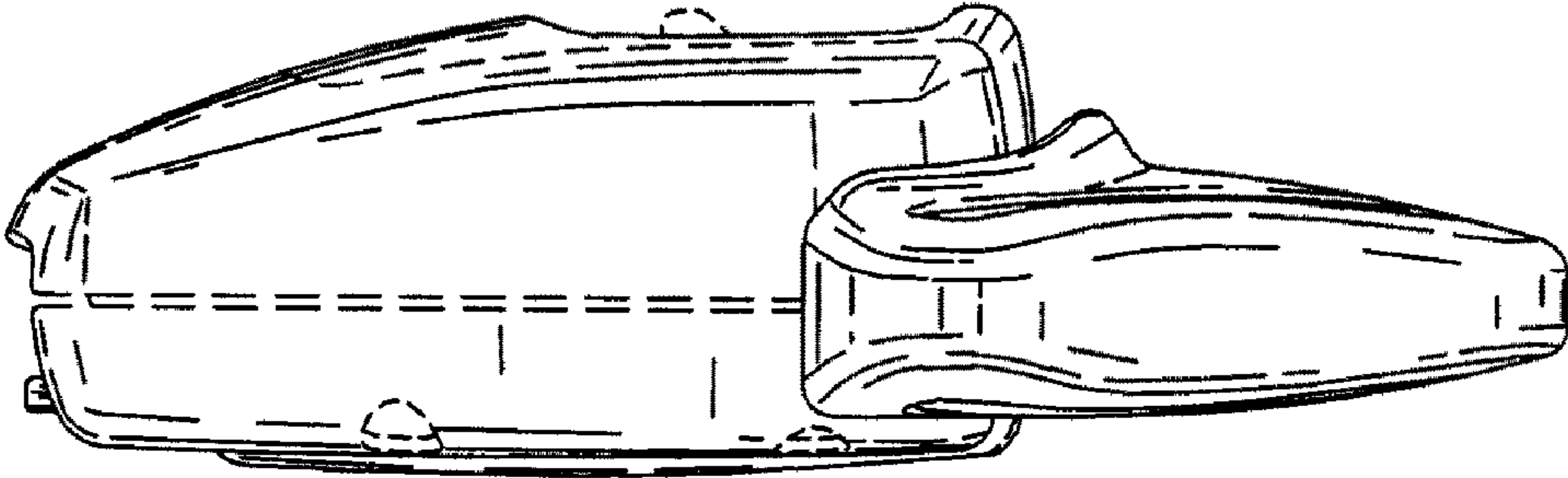


Fig. 4

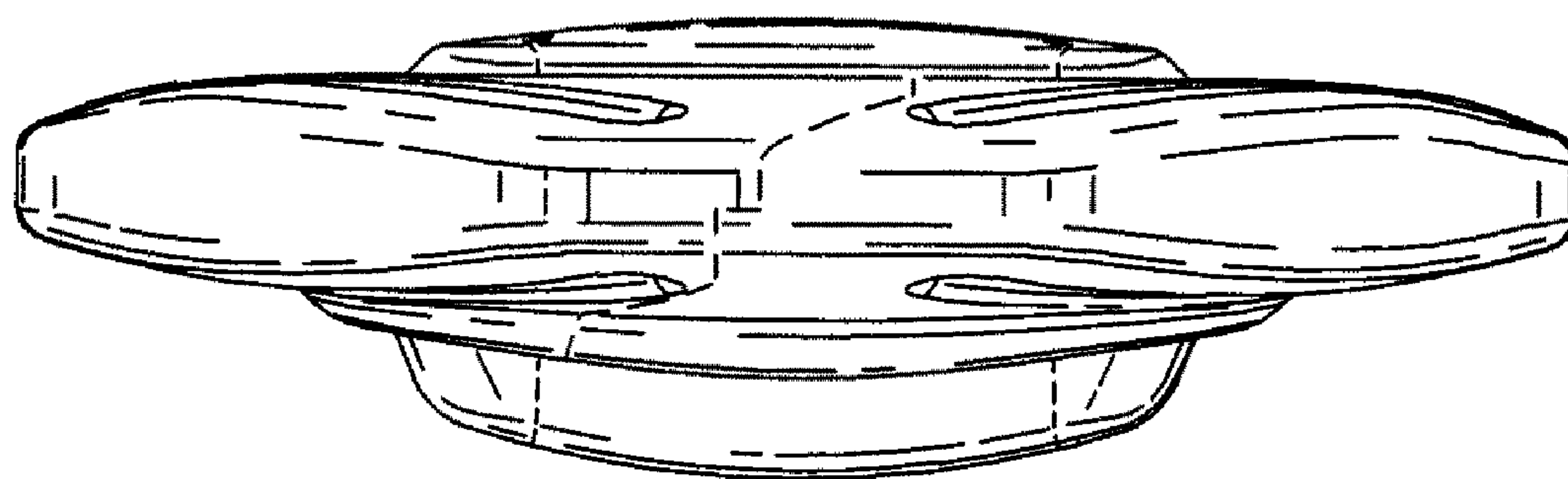


Fig. 5

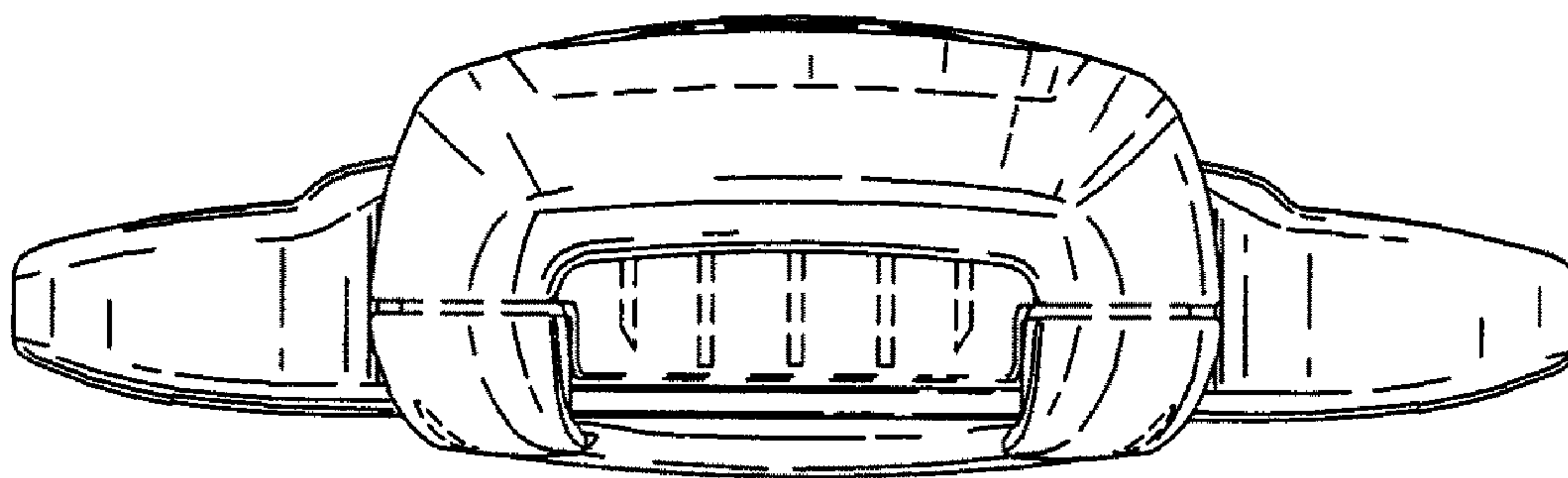


Fig. 6