



US00D655223S

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

(10) **Patent No.:** **US D655,223 S**

(45) **Date of Patent:** **\*\* Mar. 6, 2012**

(54) **BUCKLE ASSEMBLY**

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.

(Continued)

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FOREIGN PATENT DOCUMENTS

CA 2038505 A1 9/1991

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 12/546,914, Chin.

(Continued)

(73) Assignee: **AmSafe Commercial Products, Inc.**,  
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(\*\*) Term: **14 Years**

*Primary Examiner* — Ralf Seifert

(21) Appl. No.: **29/369,965**

(74) *Attorney, Agent, or Firm* — Perkins Coie LLP

(22) Filed: **Sep. 15, 2010**

(51) **LOC (9) Cl.** ..... **02-07**

(52) **U.S. Cl.** ..... **D11/216**

(58) **Field of Classification Search** ..... D11/1-2,  
D11/200-201, 206-210, 214-218; 24/163 R,  
24/169-171, 173, 177-179, 191, 194-195,  
24/197, 200, 614-616, 625

See application file for complete search history.

(57) **CLAIM**

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

**DESCRIPTION**

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.

FIG. 5 is a right side elevation view thereof.

FIG. 6 is a front elevation view thereof.

FIG. 7 is a back elevation view thereof.

FIG. 8 is an isometric view of a second embodiment of a buckle assembly showing our new design.

FIG. 9 is a top plan view thereof.

FIG. 10 is a bottom plan view thereof.

FIG. 11 is a left side elevation view thereof.

FIG. 12 is a right side elevation view thereof.

FIG. 13 is a front elevation view thereof; and,

FIG. 14 is a back elevation view thereof.

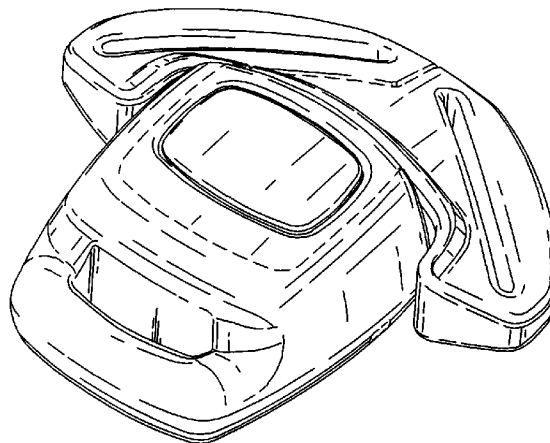
Elements identified in broken lines in the accompanying drawings form no part of the claimed invention.

(56) **References Cited**

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 et 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.
2,938,254 A	5/1960	Gaylord
3,029,487 A	4/1962	Asai

**1 Claim, 6 Drawing Sheets**



## US D655,223 S

Page 2

U.S. PATENT DOCUMENTS							
3,218,685	A	11/1965	Atumi	4,854,608	A	8/1989	Barral et al.
3,226,791	A	1/1966	Carter	D303,232	S	9/1989	Lortz et al.
3,256,576	A	6/1966	Klove, Jr. et al.	4,876,770	A	10/1989	Bougher
3,262,169	A	7/1966	Jantzen	4,876,772	A	10/1989	Anthony et al.
3,289,261	A	12/1966	Davis	4,911,377	A	3/1990	Lortz et al.
3,312,502	A	4/1967	Coe	4,919,484	A	4/1990	Bougher et al.
3,369,842	A	2/1968	Adams et al.	4,934,030	A	6/1990	Spinosa et al.
3,414,947	A	12/1968	Holmberg et al.	4,940,254	A	7/1990	Ueno et al.
3,451,720	A	6/1969	Makinen	4,942,649	A	7/1990	Anthony et al.
3,491,414	A	1/1970	Stoffel	4,995,640	A	2/1991	Saito et al.
3,505,711	A	4/1970	Carter	5,015,010	A	5/1991	Homeier et al.
3,523,342	A	8/1970	Spires	5,023,981	A	6/1991	Anthony et al.
D218,589	S	9/1970	Lohr	5,031,962	A	7/1991	Lee
3,564,672	A	2/1971	McIntyre	5,038,446	A	8/1991	Anthony et al.
3,591,900	A	7/1971	Brown	5,039,169	A	8/1991	Bougher et al.
3,605,207	A	9/1971	Glauser et al.	5,067,212	A	11/1991	Ellis
3,605,210	A	9/1971	Lohr	5,074,011	A	12/1991	Carlson
3,631,571	A	1/1972	Stoffel	5,084,946	A	2/1992	Lee
3,639,948	A	2/1972	Sherman	5,088,160	A	2/1992	Warrick
3,644,967	A	2/1972	Romanzi, Jr. et al.	5,088,163	A	2/1992	van Riesen et al.
3,648,333	A	3/1972	Stoffel	D327,455	S	6/1992	Blair
3,673,645	A	7/1972	Burleigh et al.	5,119,532	A	6/1992	Tanaka et al.
3,678,542	A	7/1972	Prete, Jr.	5,142,748	A	9/1992	Anthony et al.
3,714,684	A	2/1973	Gley	5,159,732	A	11/1992	Burke et al.
3,760,464	A	9/1973	Higuchi	5,160,186	A	11/1992	Lee
3,825,979	A	7/1974	Jakob	5,170,539	A	12/1992	Lundstedt et al.
3,879,810	A	4/1975	Prete, Jr. et al.	D332,433	S	1/1993	Bougher
3,935,618	A	2/1976	Fohl et al.	5,176,402	A	1/1993	Coulon
3,986,234	A	10/1976	Frost et al.	5,182,837	A	2/1993	Anthony et al.
4,051,743	A	10/1977	Gaylord	5,219,206	A	6/1993	Anthony et al.
D248,618	S	7/1978	Anthony	5,219,207	A	6/1993	Anthony et al.
4,100,657	A	7/1978	Minolla et al.	5,220,713	A	6/1993	Lane, Jr. et al.
4,118,833	A	10/1978	Knox et al.	D338,119	S	8/1993	Merrick
4,128,924	A	12/1978	Happel et al.	5,234,181	A	8/1993	Schroth et al.
4,148,224	A	4/1979	Craig	D342,465	S	12/1993	Anthony et al.
4,181,832	A	1/1980	Ueda et al.	5,267,377	A	12/1993	Gillis et al.
4,184,234	A	1/1980	Anthony et al.	5,269,051	A	12/1993	McFalls
4,196,500	A	4/1980	Happel et al.	5,282,672	A	2/1994	Borlinghaus
4,228,567	A	10/1980	Ikesue et al.	5,282,706	A	2/1994	Anthony et al.
4,239,260	A	12/1980	Hollowell	5,283,933	A	2/1994	Wiseman et al.
4,253,623	A	3/1981	Steger et al.	5,286,090	A	2/1994	Templin et al.
4,262,396	A	4/1981	Koike et al.	5,292,181	A	3/1994	Dybro
4,317,263	A	3/1982	Fohl et al.	5,308,148	A	5/1994	Peterson et al.
4,321,734	A	3/1982	Gandelman	5,311,653	A	5/1994	Merrick
4,334,341	A	6/1982	Krautz et al.	5,369,855	A	12/1994	Tokugawa et al.
4,336,636	A	6/1982	Ishiguro et al.	5,370,333	A	12/1994	Lortz et al.
4,366,604	A	1/1983	Anthony et al.	5,375,879	A	12/1994	Williams et al.
4,408,374	A	10/1983	Fohl et al.	5,380,066	A	1/1995	Wiseman et al.
4,419,874	A	12/1983	Brentini et al.	5,392,535	A	2/1995	Van Noy et al.
4,425,688	A	1/1984	Anthony et al.	5,406,681	A	4/1995	Olson et al.
4,457,052	A	7/1984	Hauber	D359,710	S	6/1995	Chinni et al.
4,525,901	A	7/1985	Krauss	5,432,987	A	7/1995	Schroth
4,545,097	A	10/1985	Wier et al.	5,443,302	A	8/1995	Dybro
D285,383	S	9/1986	Anthony	5,451,094	A	9/1995	Templin et al.
4,617,705	A	10/1986	Anthony et al.	D364,124	S	11/1995	Lortz et al.
4,637,102	A	1/1987	Teder et al.	5,471,714	A	12/1995	Olson et al.
4,638,533	A	1/1987	Gloomis et al.	5,497,956	A	3/1996	Crook
4,640,550	A	2/1987	Hakansson et al.	5,511,856	A	4/1996	Merrick et al.
4,644,618	A	2/1987	Holmberg et al.	5,516,199	A	5/1996	Crook et al.
4,646,400	A	3/1987	Tanaka et al.	5,526,556	A	6/1996	Czank
4,648,483	A	3/1987	Skyba	5,560,565	A	10/1996	Merrick et al.
4,651,946	A	3/1987	Anthony et al.	5,561,891	A	10/1996	Hsieh et al.
4,660,889	A	4/1987	Anthony et al.	5,568,676	A	10/1996	Freeman
4,679,852	A	7/1987	Anthony et al.	5,584,107	A	12/1996	Koyanagi et al.
4,682,791	A	7/1987	Ernst et al.	5,588,189	A	12/1996	Gorman et al.
4,685,176	A	8/1987	Burnside et al.	5,606,783	A	3/1997	Gillis et al.
4,692,970	A	9/1987	Anthony et al.	5,622,327	A	4/1997	Heath et al.
4,711,003	A	12/1987	Gelula	5,628,548	A	5/1997	Lacoste
4,716,630	A	1/1988	Skyba	5,634,664	A	6/1997	Seki et al.
4,720,148	A	1/1988	Anthony et al.	5,669,572	A	9/1997	Crook
4,726,625	A	2/1988	Bougher	5,695,243	A	12/1997	Anthony et al.
4,727,628	A	3/1988	Rudholm et al.	5,699,594	A	12/1997	Czank et al.
D296,678	S	7/1988	Lortz et al.	D389,426	S	1/1998	Merrick et al.
4,757,579	A	7/1988	Nishino et al.	5,743,597	A	4/1998	Jessup et al.
4,790,597	A	12/1988	Bauer et al.	5,774,947	A	7/1998	Anscher
4,809,409	A	3/1989	Van Riesen et al.	5,779,319	A	7/1998	Merrick
4,832,410	A	5/1989	Bougher	D397,063	S	8/1998	Woellert et al.
4,843,688	A	7/1989	Ikeda et al.	5,794,878	A	8/1998	Carpenter et al.
				5,813,097	A	9/1998	Woellert et al.



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.

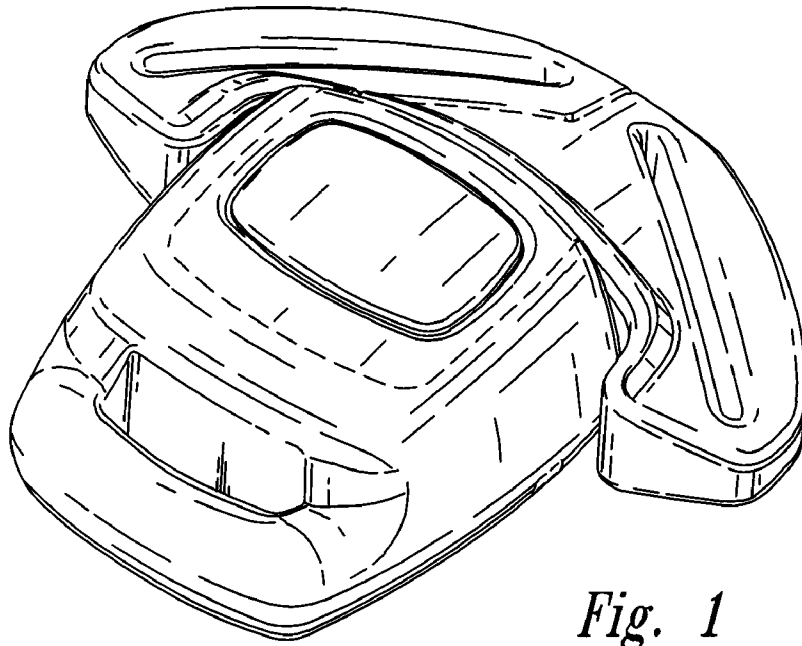
Global Seating Systems LLC, "CCOPS," Cobra: Soldier Survival System, 1 page, undated.

International Search Report and Written Opinion, PCT Application No. PCT/US2006/22367; Applicant: AmSafe, Inc.; Date of Mailing: Sep. 18, 2006, 6 pages.

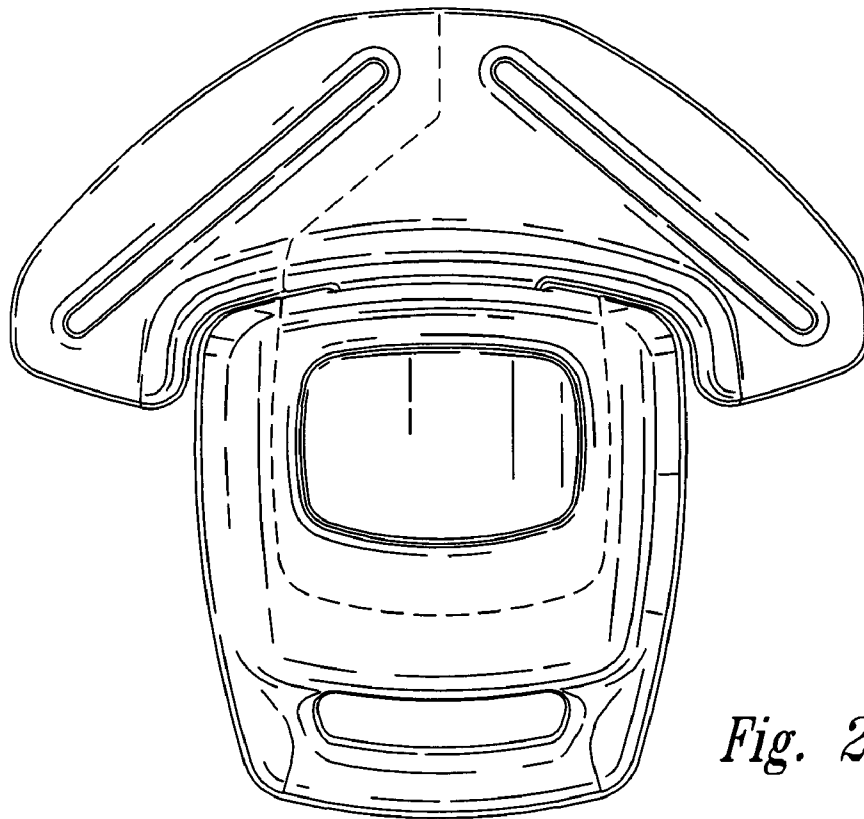
International Search Report and Written Opinion; PCT Application No. PCT/US2009/31613; Applicant: AmSafe Commercial Products, Inc.; Date of Mailing: Mar. 3, 2009. 11 pages.

Schroth Safety Products, Installation Instructions, HMMWV Gunner restraint, Single Lower with Swivel—M1151, Revision: A, Jul. 28, 2006, pp. 1-10.

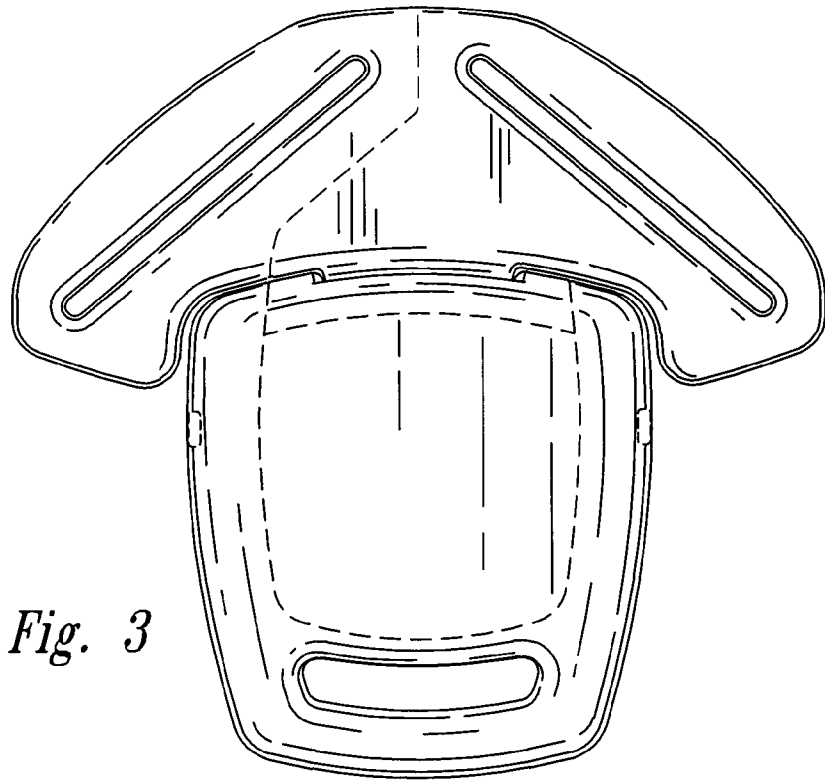
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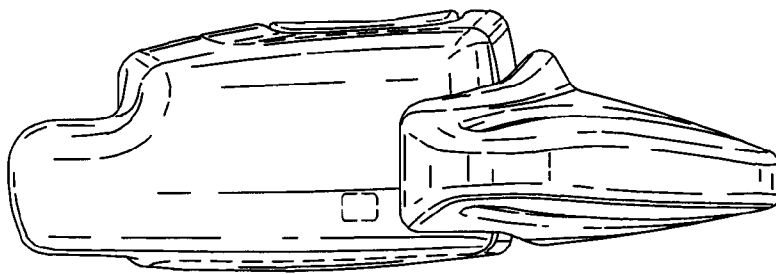
*Fig. 1*



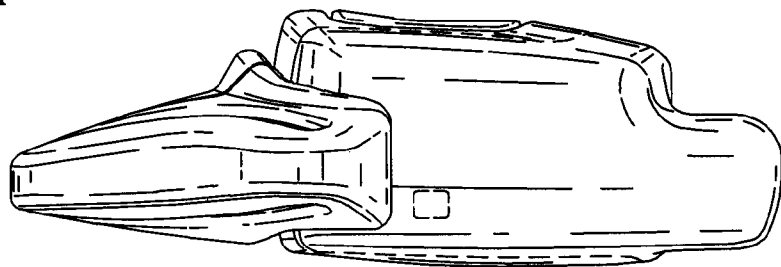
*Fig. 2*



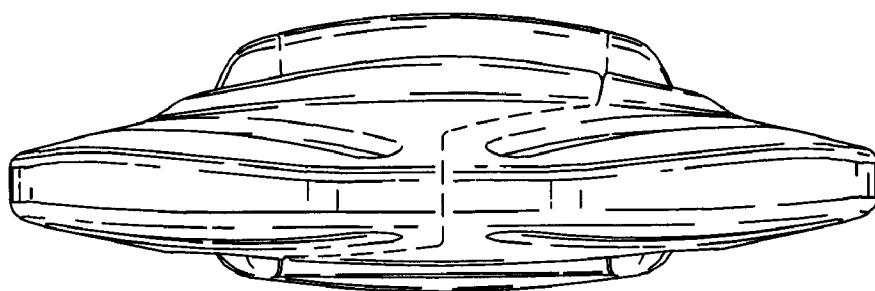
*Fig. 3*



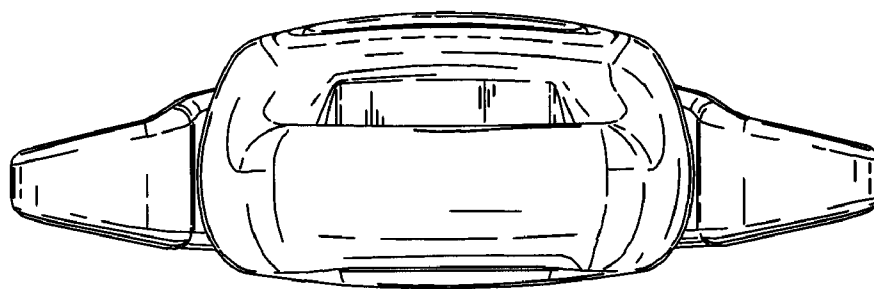
*Fig. 4*



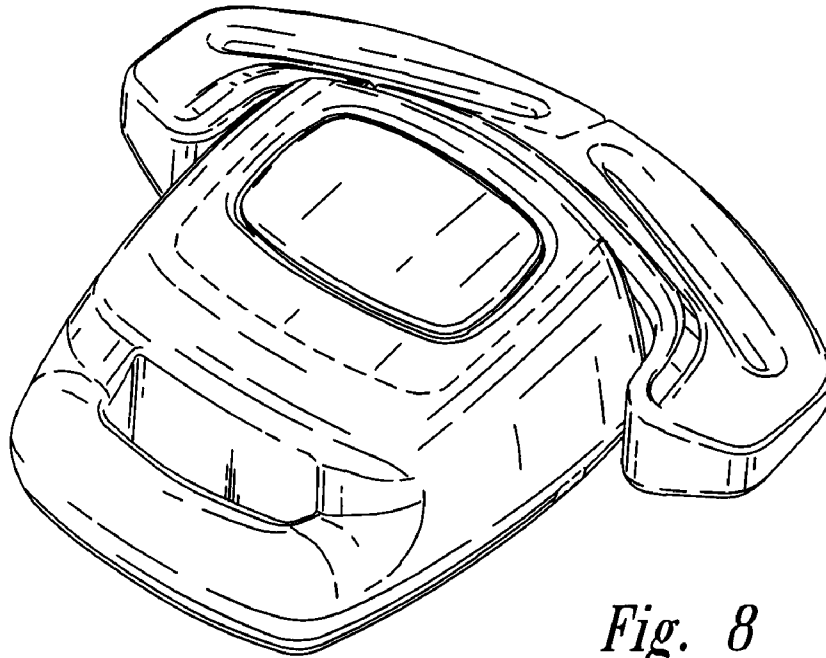
*Fig. 5*



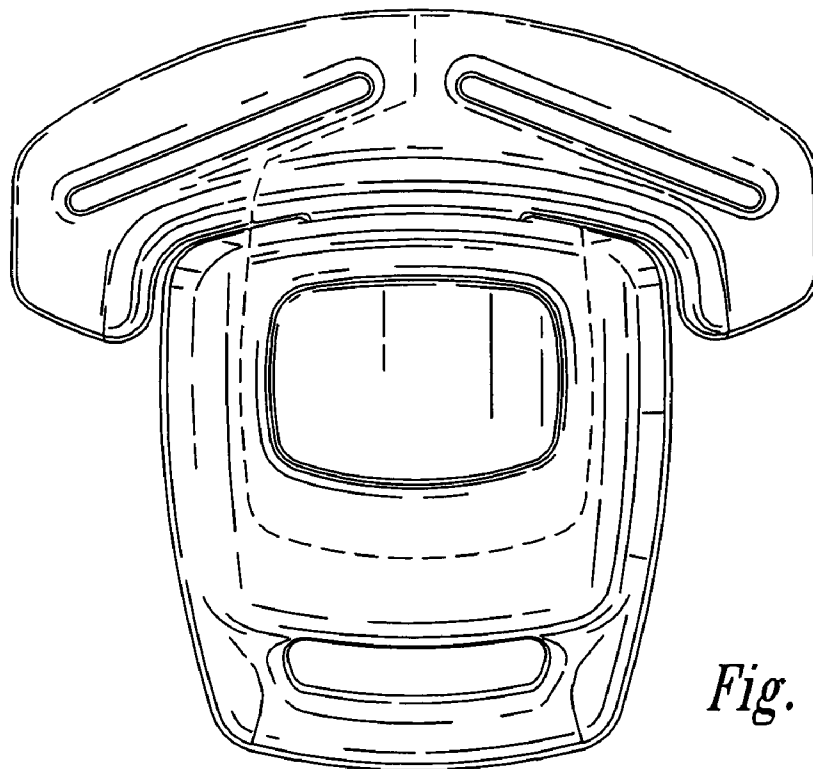
*Fig. 6*



*Fig. 7*

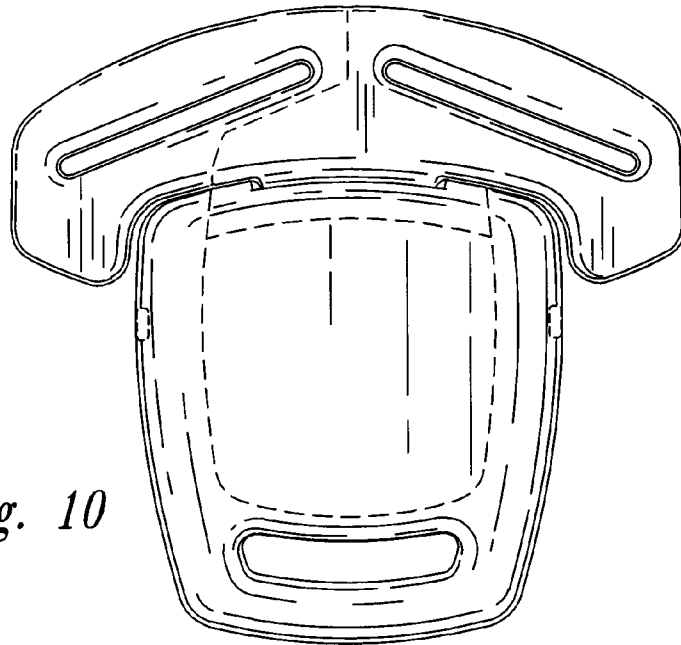


*Fig. 8*

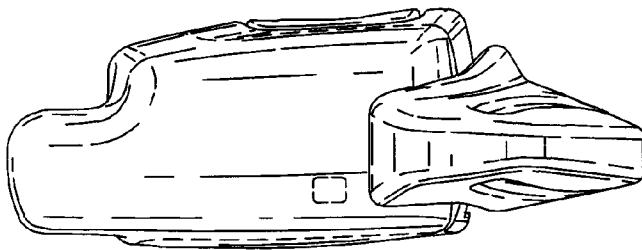


*Fig. 9*

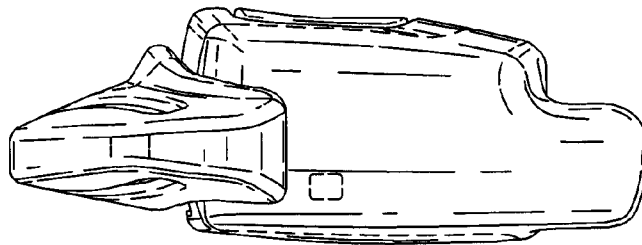




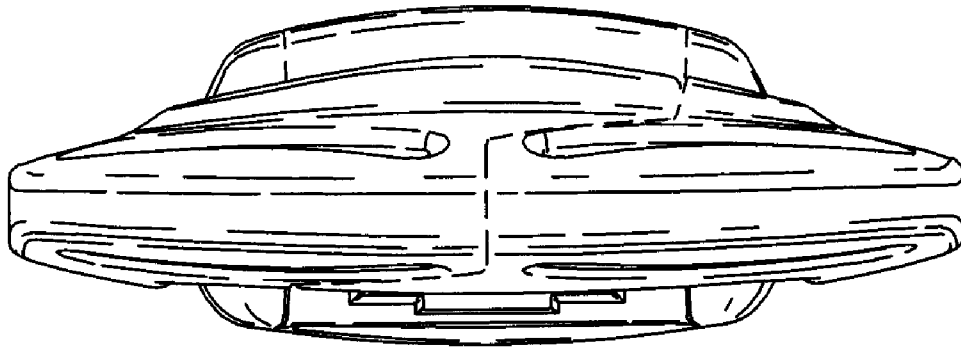
*Fig. 10*



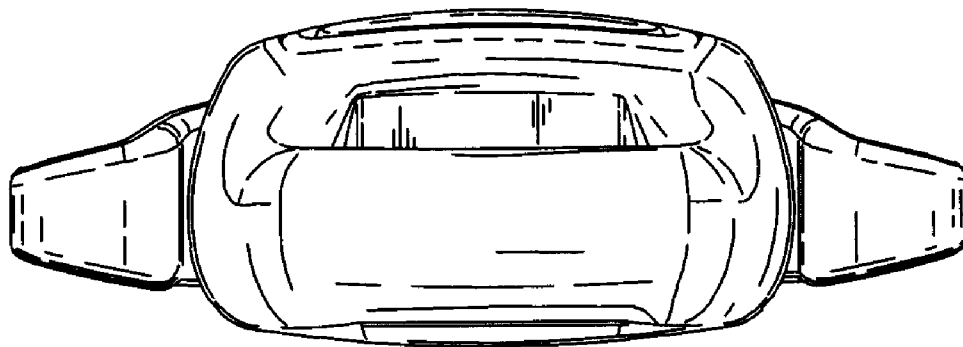
*Fig. 11*



*Fig. 12*



*Fig. 13*



*Fig. 14*

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

PATENT NO. : D655,223 S  
APPLICATION NO. : 29/369965  
DATED : March 6, 2012  
INVENTOR(S) : Ian John Hadlow et al.

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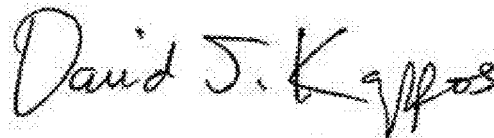
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page 3, in column 1, under "U.S. Patent Documents", line 62, delete "Woodward" and insert -- Woodard --, therefor.

Title page 4, in column 2, under "Other Publications", line 2, delete "www. sabelt.com." and insert -- www.sabelt.com. --, therefor.

Title page 4, in column 2, under "Other Publications", line 18, delete ""Art.No." and insert -- "Art. No. --, therefor.

Signed and Sealed this  
Nineteenth Day of June, 2012

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive style with a large initial "D".

David J. Kappos  
*Director of the United States Patent and Trademark Office*