



US00D693529S

(12) **United States Design Patent**
Garner

(10) **Patent No.:** **US D693,529 S**

(45) **Date of Patent:** **** Nov. 12, 2013**

- (54) **FLOOR CLEANING DEVICE**
- (75) Inventor: **Trent Garner**, Highlands Ranch, CO (US)
- (73) Assignee: **Karcher North America, Inc.**, Englewood, CO (US)

- 3,461,479 A 8/1969 Tierney
- 3,504,858 A 4/1970 Liddiard
- 3,506,080 A 4/1970 Hott
- RE26,950 E 9/1970 Hays
- 3,604,051 A 9/1971 Wendall et al.
- 3,631,558 A 1/1972 Kovacevoc
- 3,705,437 A 12/1972 Rukauina, Jr. et al.

(Continued)

(**) Term: **14 Years**

FOREIGN PATENT DOCUMENTS

(21) Appl. No.: **29/431,705**

- BR 0511488 1/2008
- CA 2242793 7/1998

(22) Filed: **Sep. 10, 2012**

(Continued)

(51) **LOC (9) Cl.** **15-05**

(52) **U.S. Cl.**

USPC **D32/16**

(58) **Field of Classification Search**

USPC D32/1, 4, 15-16, 19-20; 15/49.1, 50.1, 15/50.3, 52.1, 320-321, 323, 340.1, 340.3, 15/340.5; 134/115 R

See application file for complete search history.

OTHER PUBLICATIONS

Galopio Operating Instructions, Schmidt Winterdienst-Und Kommunaltechnik, Jan. 17, 2005, Issue 5, pp. 1-84.

(Continued)

Primary Examiner — T. Chase Nelson
Assistant Examiner — Kathleen M Sims

(74) *Attorney, Agent, or Firm* — Sheridan Ross P.C.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 1,596,041 A 8/1926 Young
- 1,639,959 A 8/1927 Owen
- 1,888,339 A 11/1932 White
- 1,900,889 A 3/1933 Becker
- 1,995,084 A 3/1935 Wichle
- 1,999,696 A 4/1935 Kitto
- 2,192,397 A 3/1940 Carlson
- 2,263,762 A 11/1941 Dow et al.
- 2,668,979 A 2/1954 MacFarland
- 3,005,224 A 10/1961 Magarian
- 3,065,490 A 11/1962 Arones
- 3,093,853 A 6/1963 Tamny
- 3,193,862 A 7/1965 Lyon
- D202,170 S * 9/1965 Little et al. D32/16
- 3,206,787 A 9/1965 Daniels et al.
- 3,233,274 A 2/1966 Kroll
- 3,284,830 A 11/1966 Kroll
- 3,436,788 A 4/1969 Tamny

(57) **CLAIM**

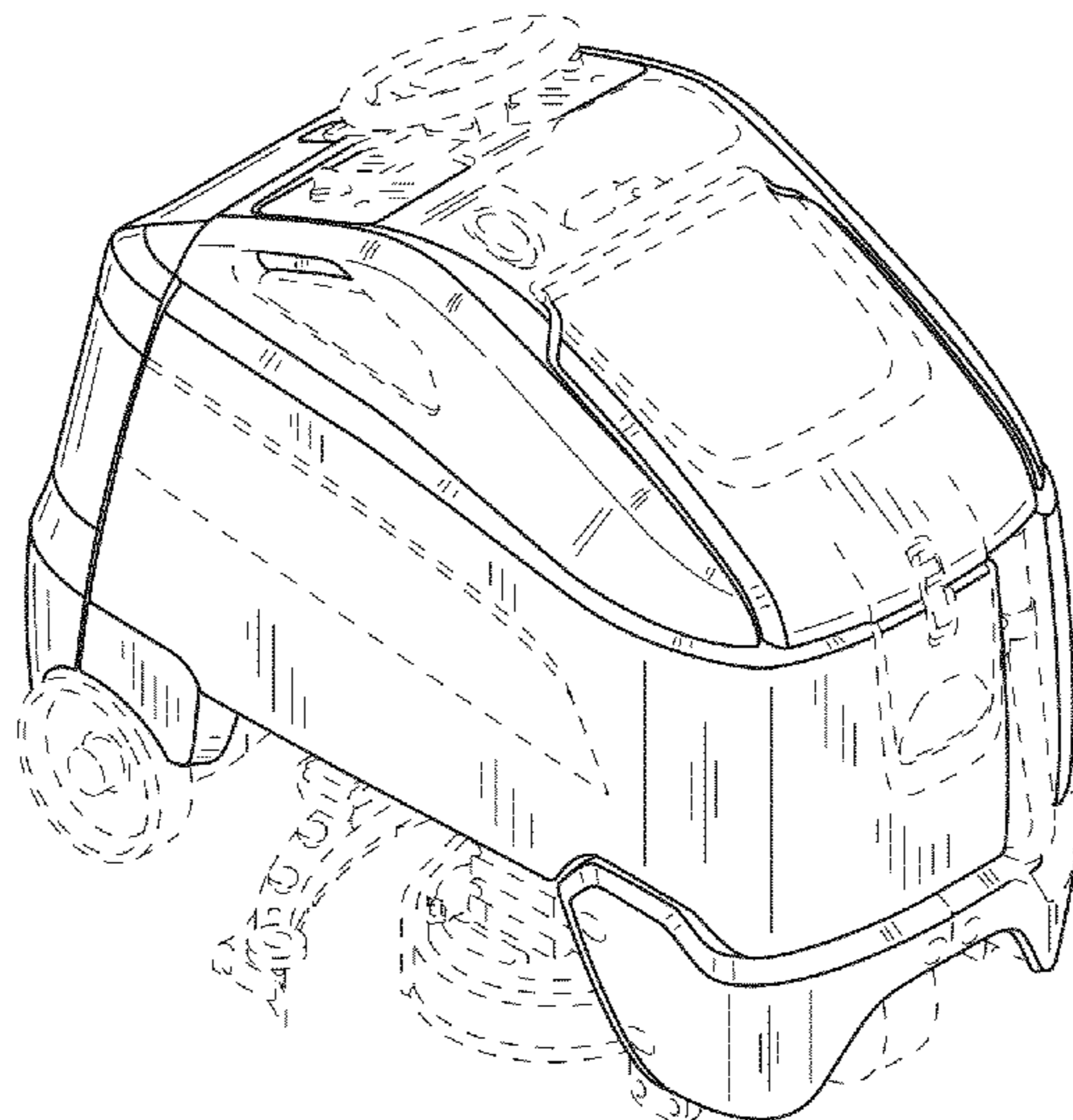
The ornamental design for a floor cleaning device, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a floor cleaning device; FIG. 2 is a front elevation view thereof; FIG. 3 is a rear elevation view thereof; FIG. 4 is a right elevation view thereof; FIG. 5 is a left elevation view thereof; and, FIG. 6 is a top plan view thereof.

The broken lines showing environment are for illustrative purposes only and form no part of the claimed design;

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,705,746	A	12/1972	McLeod	6,158,673	A	12/2000	Toetschinger
3,833,961	A	9/1974	Fortman et al.	6,206,980	B1	3/2001	Robinson
3,846,865	A	11/1974	Holman	6,230,363	B1	5/2001	Kawai et al.
3,879,789	A	4/1975	Kasper	6,266,892	B1	7/2001	Haynie
3,883,301	A	5/1975	Emrick et al.	6,283,170	B1	9/2001	Robinson
3,892,003	A	7/1975	Peabody	6,302,230	B1	10/2001	Kamen et al.
4,010,507	A	3/1977	Johnson	6,367,120	B2	4/2002	Beauchamp
4,019,218	A	4/1977	Cyphert	6,371,228	B1	4/2002	Husted et al.
4,037,289	A	7/1977	Dojan	6,397,429	B1	6/2002	Legatt et al.
4,046,321	A	9/1977	Hewett	6,425,958	B1	7/2002	Giddings et al.
4,135,669	A	1/1979	Bridges et al.	6,427,285	B1 *	8/2002	Legatt et al. 15/320
4,196,492	A	4/1980	Johnson et al.	6,431,217	B2	8/2002	Robinson
4,200,952	A	5/1980	Smies et al.	6,442,789	B1	9/2002	Legatt et al.
4,214,338	A	7/1980	Kyle et al.	6,450,867	B1	9/2002	Legatt
4,293,971	A	10/1981	Block	6,453,506	B1	9/2002	Sumner
4,339,841	A	7/1982	Waldhauser et al.	6,464,025	B1	10/2002	Koeper et al.
4,354,569	A	10/1982	Eichholz	6,490,849	B1	12/2002	Scag et al.
D267,084	S	11/1982	Bittinger	6,497,422	B1	12/2002	Bellis, Jr. et al.
4,383,551	A	5/1983	Lynch et al.	6,533,871	B2	3/2003	Zahuranec et al.
D273,621	S	4/1984	Haub et al.	6,535,793	B2	3/2003	Allard
4,499,624	A	2/1985	Bloom et al.	6,554,207	B2	4/2003	Ebberts
4,538,695	A	9/1985	Bradt	6,585,827	B2	7/2003	Field et al.
4,596,061	A	6/1986	Henning	6,594,844	B2	7/2003	Jones
4,654,918	A	4/1987	Cooper	6,625,843	B2	9/2003	Kim et al.
D290,053	S	5/1987	Block	6,629,333	B2	10/2003	Bolden et al.
D290,054	S	5/1987	Block	6,647,585	B1	11/2003	Robinson
4,675,935	A	6/1987	Kasper et al.	6,650,975	B2	11/2003	Ruffner
4,716,980	A	1/1988	Butler	6,671,925	B2	1/2004	Field et al.
4,759,094	A	7/1988	Palmer et al.	6,684,452	B2	2/2004	Lehman et al.
4,803,753	A *	2/1989	Palmer 15/320	6,705,332	B2	3/2004	Field et al.
4,805,258	A	2/1989	Sitarski et al.	6,721,990	B2	4/2004	Zahuranec et al.
4,809,397	A	3/1989	Jacobs et al.	6,725,512	B2	4/2004	Carter et al.
4,847,944	A	7/1989	Lackner	6,735,811	B2	5/2004	Field et al.
4,850,077	A	7/1989	Venturini	6,735,812	B2	5/2004	Hekman et al.
4,874,055	A	10/1989	Beer	6,760,947	B2	7/2004	Stuchlik
4,879,784	A	11/1989	Shero	6,772,475	B2	8/2004	Weber et al.
4,920,997	A	5/1990	Vetter et al.	6,789,290	B2	9/2004	Kent et al.
5,044,043	A	9/1991	Field et al.	6,842,940	B2	1/2005	Christopher et al.
5,054,150	A	10/1991	Best et al.	6,845,829	B2	1/2005	Hafendorfer
5,075,921	A	12/1991	Gleadall	6,849,829	B1	2/2005	Hafendorfer
D323,797	S	2/1992	Oslapas et al.	6,871,371	B2 *	3/2005	Guest 15/49.1
5,127,124	A	7/1992	Palmer et al.	6,918,156	B2	7/2005	Joo et al.
5,135,080	A	8/1992	Haston	6,918,603	B2	7/2005	Boyd
5,168,947	A	12/1992	Rodenborn	6,941,614	B2	9/2005	Montgomery
5,174,730	A	12/1992	Ket al.	6,981,338	B2	1/2006	Jensen et al.
5,217,166	A	6/1993	Schulze et al.	7,025,835	B2	4/2006	Pedlar et al.
5,221,026	A	6/1993	Williams	7,041,029	B2 *	5/2006	Fulghum et al. 477/7
5,245,144	A	9/1993	Stammen	7,048,805	B2	5/2006	Kent et al.
5,360,307	A *	11/1994	Schemm et al. 414/343	7,059,004	B2 *	6/2006	Mitchell et al. 15/50.1
5,416,949	A	5/1995	Jute	D533,320	S *	12/2006	Pedlar D32/16
5,435,038	A	7/1995	Sauers	D536,146	S *	1/2007	Pedlar D32/16
D364,012	S *	11/1995	Bothun et al. D32/19	D536,842	S *	2/2007	Pedlar D32/16
5,465,451	A	11/1995	Stegens	D536,843	S *	2/2007	Pedlar D32/16
D369,446	S *	4/1996	Smith D32/19	D536,844	S *	2/2007	Pedlar D32/16
5,502,868	A	4/1996	Braeendle	D536,845	S *	2/2007	Pedlar D32/16
5,509,162	A	4/1996	Burgoon	D536,846	S *	2/2007	Pedlar D32/16
D370,320	S	5/1996	Hachtmann	D538,492	S *	3/2007	Pedlar D32/16
5,537,712	A	7/1996	Weber et al.	D542,988	S *	5/2007	Dammkoehler et al. D32/16
5,555,595	A	9/1996	Ligman	D543,323	S *	5/2007	Pedlar D32/16
5,607,178	A	3/1997	Legatt et al.	D544,659	S *	6/2007	Auerswald et al. D32/16
5,742,975	A	4/1998	Knowlton et al.	D549,405	S *	8/2007	Dammkoehler D32/16
5,785,453	A	7/1998	Marty et al.	D569,057	S *	5/2008	Goff D32/16
5,802,665	A	9/1998	Knowlton et al.	7,370,386	B2	5/2008	Lehman et al.
5,890,258	A *	4/1999	Lee 15/320	D571,512	S *	6/2008	Dammkoehler et al. D32/15
5,898,970	A	5/1999	Straiton	7,533,435	B2	5/2009	Pedlar et al.
5,901,409	A	5/1999	Schick et al.	D659,308	S *	5/2012	Dammkoehler D32/16
5,984,031	A	11/1999	Velke et al.	D661,853	S *	6/2012	Dammkoehler D32/16
6,023,813	A	2/2000	Thatcher et al.	8,245,345	B2	8/2012	Pedlar et al.
6,030,465	A	2/2000	Marcussen et al.	8,261,759	B2 *	9/2012	Kelle et al. 134/198
6,059,055	A	5/2000	Velke et al.	2003/0019068	A1 *	1/2003	Field et al. 15/320
6,088,873	A	7/2000	Pacchini et al.	2003/0070249	A1 *	4/2003	Lehman et al. 15/320
6,131,240	A *	10/2000	Shark et al. 15/355	2003/0070252	A1 *	4/2003	Pedlar et al. 15/401
6,145,855	A	11/2000	Bellis, Jr. et al.	2003/0159225	A1	8/2003	Kuo
6,158,084	A	12/2000	Weber et al.	2003/0192963	A1	10/2003	Ebberts
				2004/0040102	A1	3/2004	Field et al.
				2004/0172769	A1	9/2004	Giddings et al.
				2004/0187895	A1	9/2004	Field et al.
				2004/0221407	A1	11/2004	Field et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2004/0226578	A1	11/2004	Guest et al.	
2004/0226584	A1	11/2004	Guest et al.	
2004/0262871	A1	12/2004	Schreuder et al.	
2005/0081319	A1*	4/2005	Legatt	15/320
2005/0132527	A1*	6/2005	Pedlar et al.	15/340.3
2006/0064844	A1	3/2006	Venard et al.	
2006/0124770	A1	6/2006	Venard et al.	
2006/0156498	A1	7/2006	Venard et al.	
2006/0236494	A1*	10/2006	Nelson et al.	15/320
2009/0094784	A1*	4/2009	Pedlar et al.	15/340.1
2011/0023918	A1*	2/2011	Kelle et al.	134/115 R
2012/0096671	A1*	4/2012	Venard et al.	15/347
2012/0291218	A1*	11/2012	Pedlar et al.	15/340.1
2013/0005224	A1*	1/2013	Leifheit et al.	451/259

FOREIGN PATENT DOCUMENTS

CA	2268234	10/1999
DE	1270066	6/1968
DE	1658384	4/1971
DE	69011648	12/1994
DE	4440202	5/1995
DE	9421472	1/1996
DE	4429996	2/1996
DE	9421625	3/1996
DE	19539350	4/1997
DE	19745887	4/2000
DE	19851666	9/2000
DE	69608989	11/2000
DE	19927593	4/2001
DE	10029691	4/2002
DE	10030725	4/2002
DE	10062329	7/2002
DE	19851681	7/2002
DE	20204485	10/2002
DE	10142192	3/2003
DE	10204118	10/2003
DE	10218244	11/2003
DE	10221349	11/2003
DE	10221351	11/2003
DE	10221352	11/2003
DE	10307150	9/2004
DE	10324825	12/2004
DE	10324826	12/2004
EP	0017913	4/1983
EP	0281976	9/1988
EP	0283022	9/1988
EP	0176696	4/1989
EP	0176697	5/1990
EP	0421194	6/1995
EP	0792615	9/1997
EP	0867331	9/1998
EP	1023867	6/1999
EP	0951857	10/1999
EP	1108092	6/2001
EP	1164074	12/2001
EP	1260129	11/2002
EP	1265713	12/2002
EP	01108091	10/2004
EP	1335869	10/2004
EP	1604605	12/2005
GB	2338686	12/1999
JP	09-094201	4/1997
JP	2000-217759	8/2000
JP	2003-504095	2/2003
WO	WO 86/01240	2/1986
WO	WO 90/10416	9/1990
WO	WO 92/13480	8/1992
WO	WO 86/02394	4/1996
WO	WO 97/15730	5/1997
WO	WO 00/74549	12/2000
WO	WO 00/79058	12/2000
WO	WO 01/05216	1/2001
WO	WO 2005/079468	9/2005

OTHER PUBLICATIONS

Photo and information related to Galopio device sold on Mascus website, available at http://www.mascus.com/product_card.asp?br=Broddway&catn=Groundscare&page=1&location=EN, indicates that device was registered in 2000, printed on Jan. 29, 2007, p. 1.

Photo of Galopio device, available at <http://www.bassewitz.de/fahrzeuge/schmidt.htm>, as early as Jan. 26, 2002, printed on Jan. 29, 2007, pp. 1-2.

“Schmidt Produkte: Kleinkehrfahrzeug Galopio”, Photo of Galopio device, available at <http://database.schmidtgroup.net/loader.php/en/schmidt/swk/products/00011/picture1.html>, as early as Apr. 29, 2003, printed on Jan. 29, 2007, p. 1.

“Schmidt Produkte: Kleinkehrfahrzeug Galopio”, Photo of Galopio device, available at <http://database.schmidtgroup.net/loader.php/de/schmidt/swk/00011/>, as early as May 29, 2003, printed on Jan. 29, 2007, p. 1.

No-Touch Cleaning Brochure, Kaivac, Inc., dated 2003, 8 pages.

Print out of Kaivac No-Touch Clean System, www.Kaivac.com, dated Jan. 23, 2003, 3 pages.

Print out of Nilfisk Aquatron 8 machine, www.mn.nilfisk-advance.com, dated Jan. 30, 2003, 1 page.

Nobles Typhoon 161OP/1612 Wet/Dry Vacuum Operator and Parts Manual, Jan. 2000, 22 pages Kaivac, Inc.

Warning: Your Competitor has a KaiVac, Sep. 1998, 10 pages.

Kärcher, Multicleaner MC 600, Mar. 1990, 7 pages.

Kärcher, Worldwide Cleaning Expertise Programme 91/92, published more than one year prior to the filing date of U.S. Patent 6,425,958, which was filed Feb. 2001, 50 pages.

Service Master, Boss 2000B Manual, Oct. 1995, 42 pages.

Service Master, Boss 2000E Manual, Aug. 1997, 32 pages.

Service Master, Boss 2000LE Manual, Mar. 1998, 30 pages.

Galopio Cleaning Device, www.schmidt-holding.com, accessed Feb. 23, 2005, 4 pages.

Written Opinion of the International Searching Authority of related PCT Application PCT/US06/40095, May 24, 2007, 7 pages.

International Search Report of related PCT Application PCT/US06/40095, May 24, 2007, 3 pages.

First Office Action (including translation) for Chinese Application No. 200580011019.5, date mailed by foreign associate Nov. 21, 2008.

Second Office Action (including translation) for Chinese Application No. 200580011019.5, dated May 22, 2009.

Fourth Office Action (translation only) for Chinese Patent Application No. 200580011019.5, issued Oct. 13, 2010.

Notification of Grant Patent Right (including translation) for Chinese Patent Application No. 200580011019.5, dated Mar. 2, 2011.

Supplementary European Search Report for European Application No. 05713744, dated Aug. 4, 2008.

Official Action for European Application No. 05713744, dated Feb. 12, 2009.

Official Action for European Application No. 05713744, dated Nov. 3, 2010.

Extended European Search Report for European Patent Application No. 10178165.6, dated Oct. 29, 2010.

European Written Opinion and Search Report, Nov. 10, 2004 relating to European Application No. EP 04012451.

Written Opinion by the Australian Patent Office for Singapore Application No. SG 200605344-1, mailed Jan. 9, 2008.

Examination Report issued by the Australian Patent Office for Singapore Application No. SG 200605344-1, mailed Jan. 25, 2010.

Official Action for Japanese Patent Application No. 2006-553367, issued Apr. 6, 2010.

Official Action for Japanese Patent Application No. 2006-553367, issued Apr. 5, 2011.

Notice of Allowance for U.S. Appl. No. 11/059,663, mailed Feb. 6, 2009.

Office Action for U.S. Appl. No. 11/059,663, mailed Nov. 10, 2008.

Office Action for U.S. Appl. No. 11/059,663, mailed May 14, 2008.

Office Action for U.S. Appl. No. 11/059,663, mailed Apr. 19, 2007.

Office Action for U.S. Appl. No. 11/059,663, mailed Dec. 15, 2006.

(56)

References Cited

OTHER PUBLICATIONS

Office Action for U.S. Appl. No. 11/059,663, mailed Jun. 26, 2006.
Office Action for U.S. Appl. No. 11/253,100, mailed Sep. 8, 2008.
Office Action for U.S. Appl. No. 11/253,100, mailed May 6, 2009.
Official Action for U.S. Appl. No. 11/253,100, mailed Aug. 14, 2009.
Official Action for U.S. Appl. No. 11/868,353, mailed Oct. 13, 2009
Restriction Requirement.
Official Action for U.S. Appl. No. 11/868,353, mailed Feb. 16, 2010
Restriction Requirement.
Official Action for U.S. Appl. No. 11/868,353, mailed Jun. 11, 2010.
Official Action for U.S. Appl. No. 11/868,353, mailed Jan. 27, 2011.

Official Action for U.S. Appl. No. 11/868,353, mailed May 9, 2011.
Official Action for U.S. Appl. No. 11/868,353, mailed Sep. 7, 2011 17
pages.
Official Action for U.S. Appl. No. 11/868,353, mailed Feb. 3, 2012 4
pages.
Notice of Allowance for U.S. Appl. No. 11/868,353, mailed May 17,
2012 7 pages.
Official Action for U.S. Appl. No. 13/554,593 mailed Oct. 15, 2012 5
pages.
Official Action for U.S. Appl. No. 13/554,593 mailed Dec. 11, 2012,
11 pages.

* cited by examiner

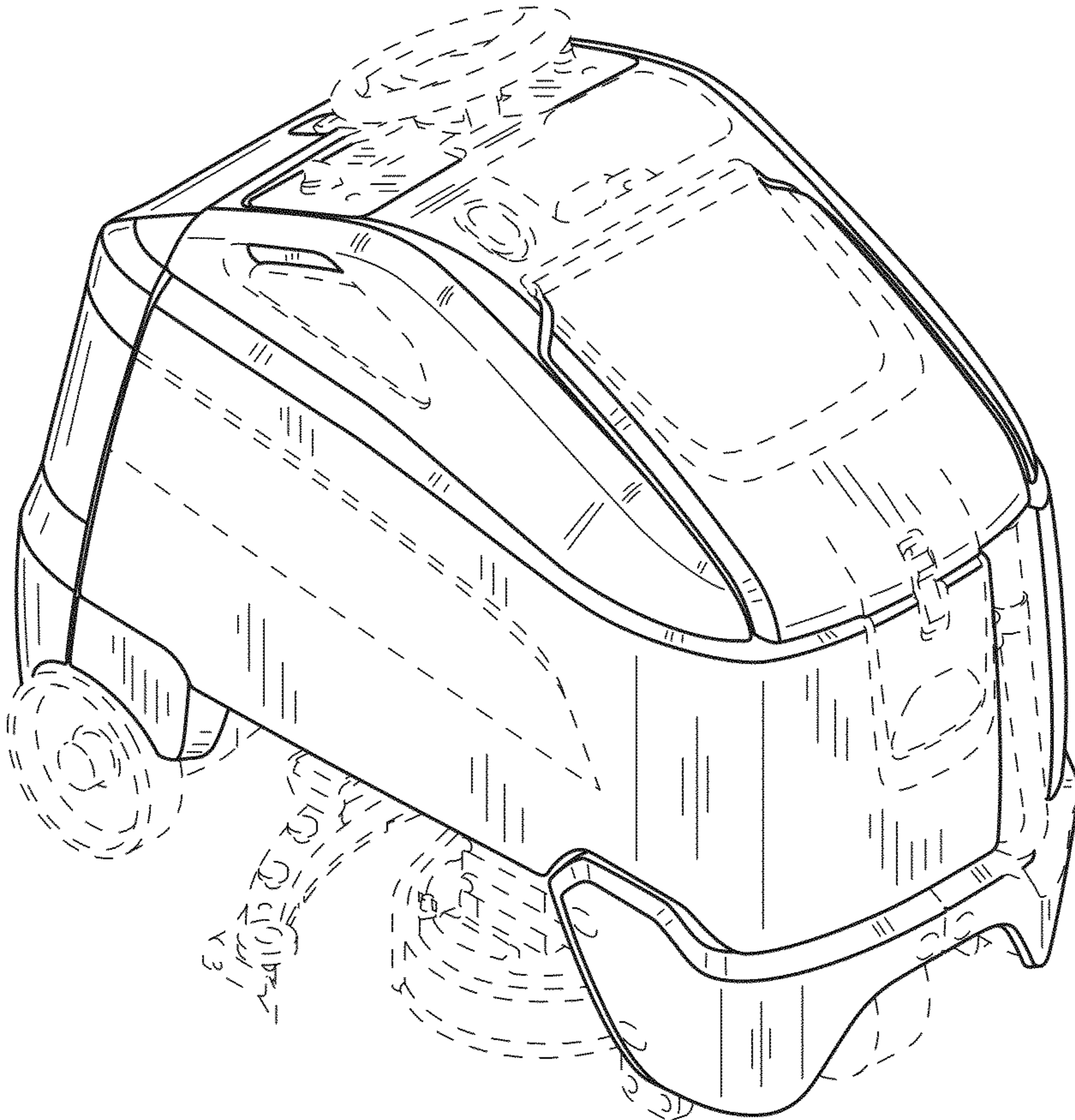


FIG.1

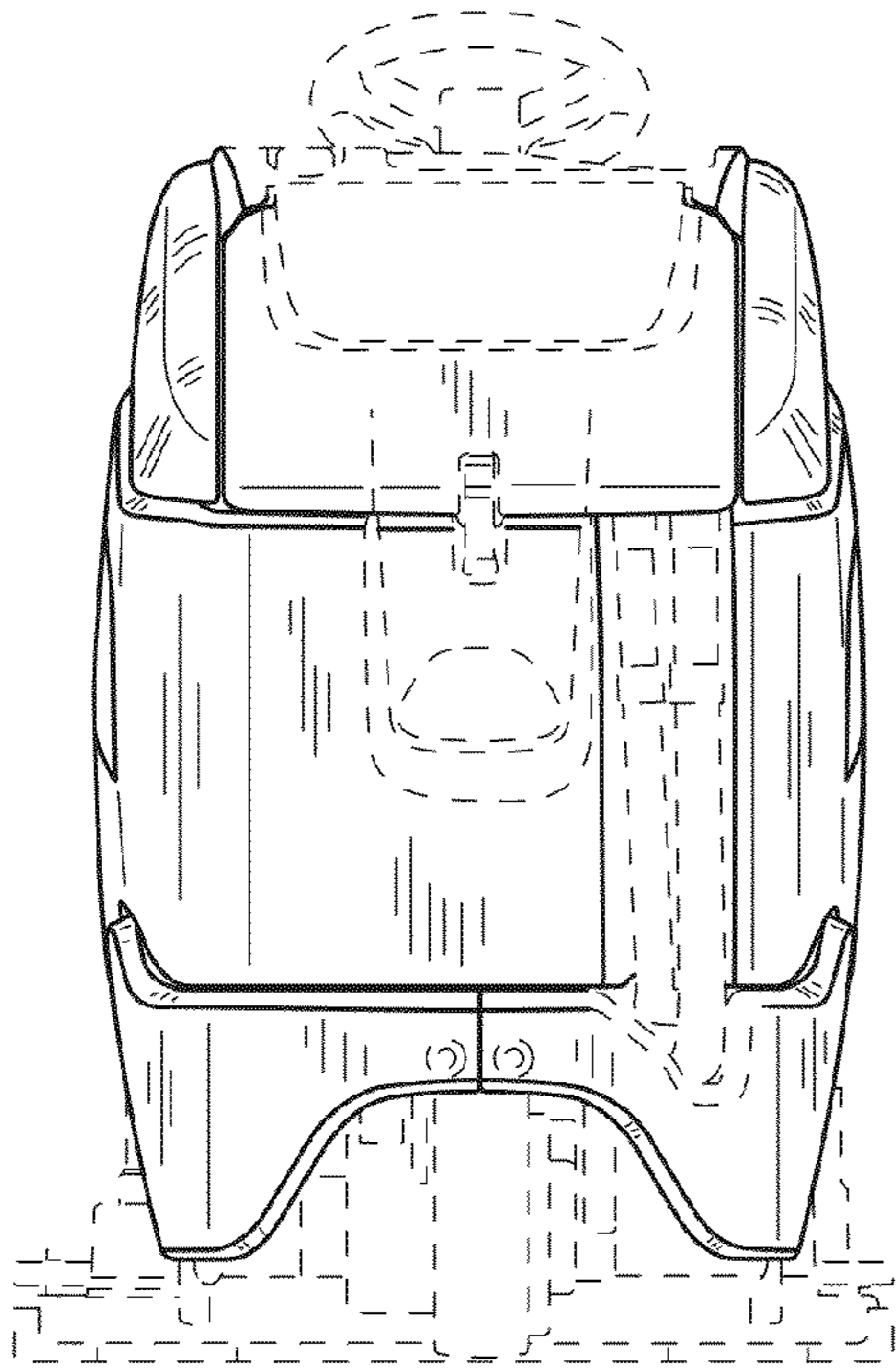


FIG. 2

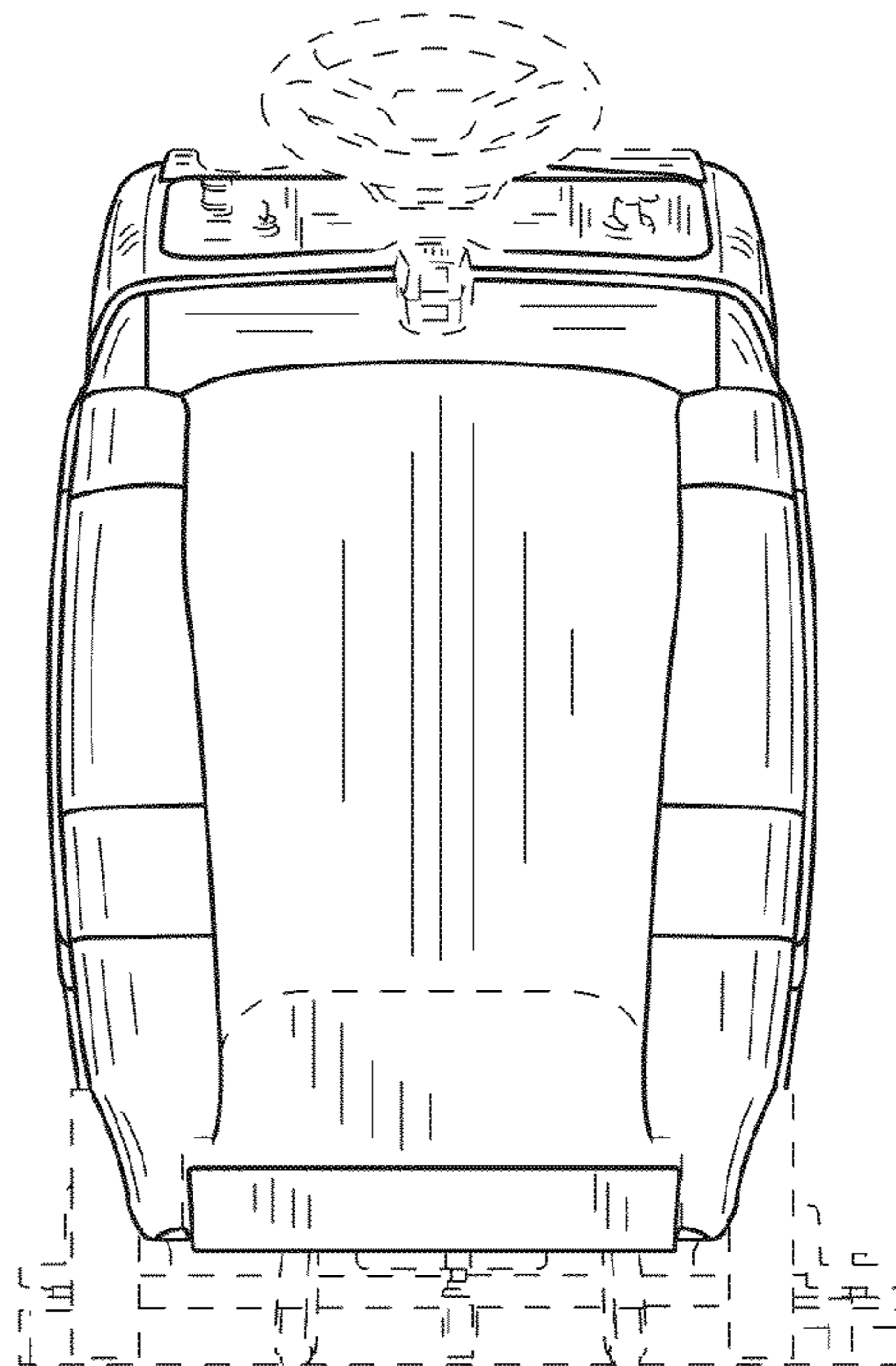


FIG. 3

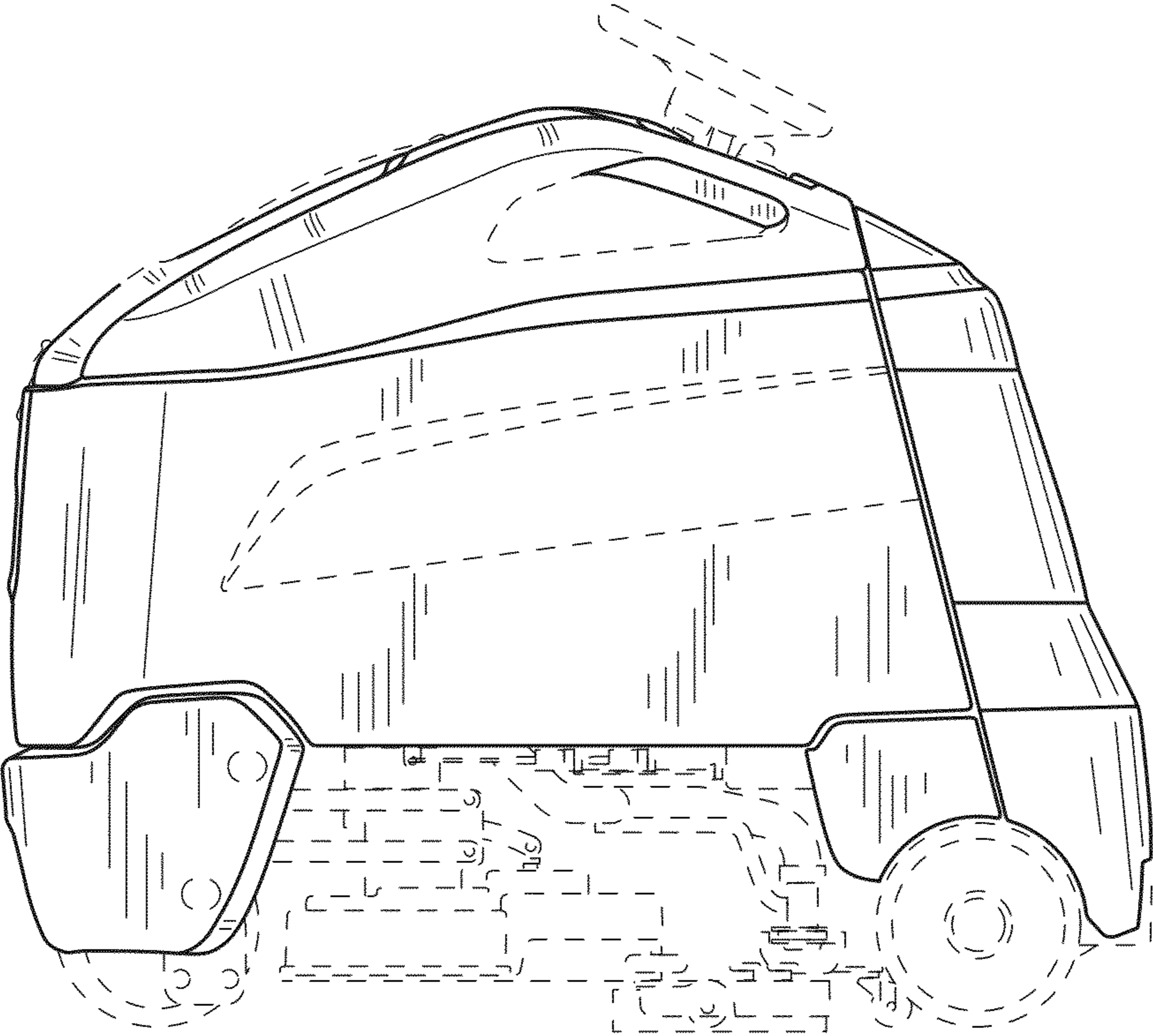


FIG.4

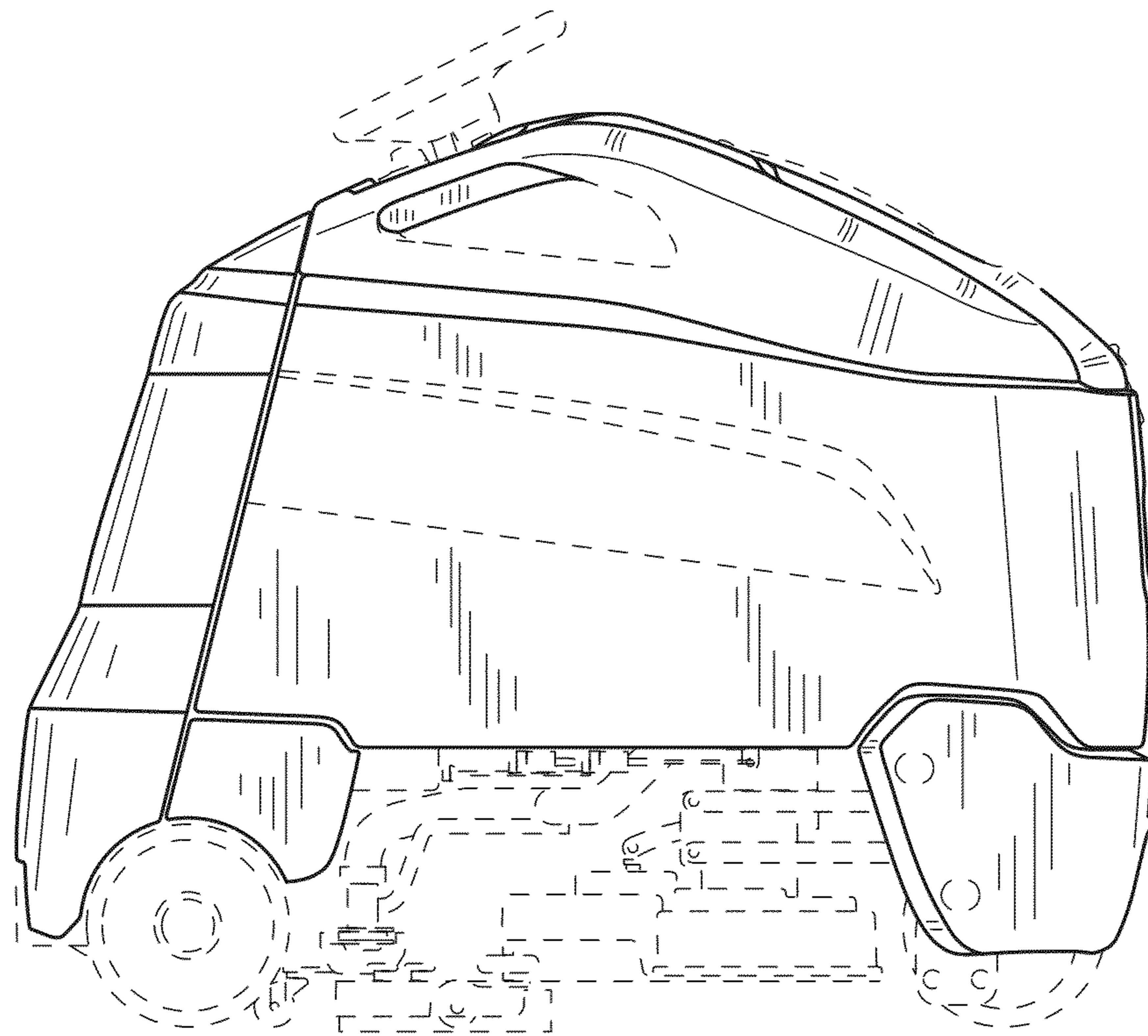


FIG.5

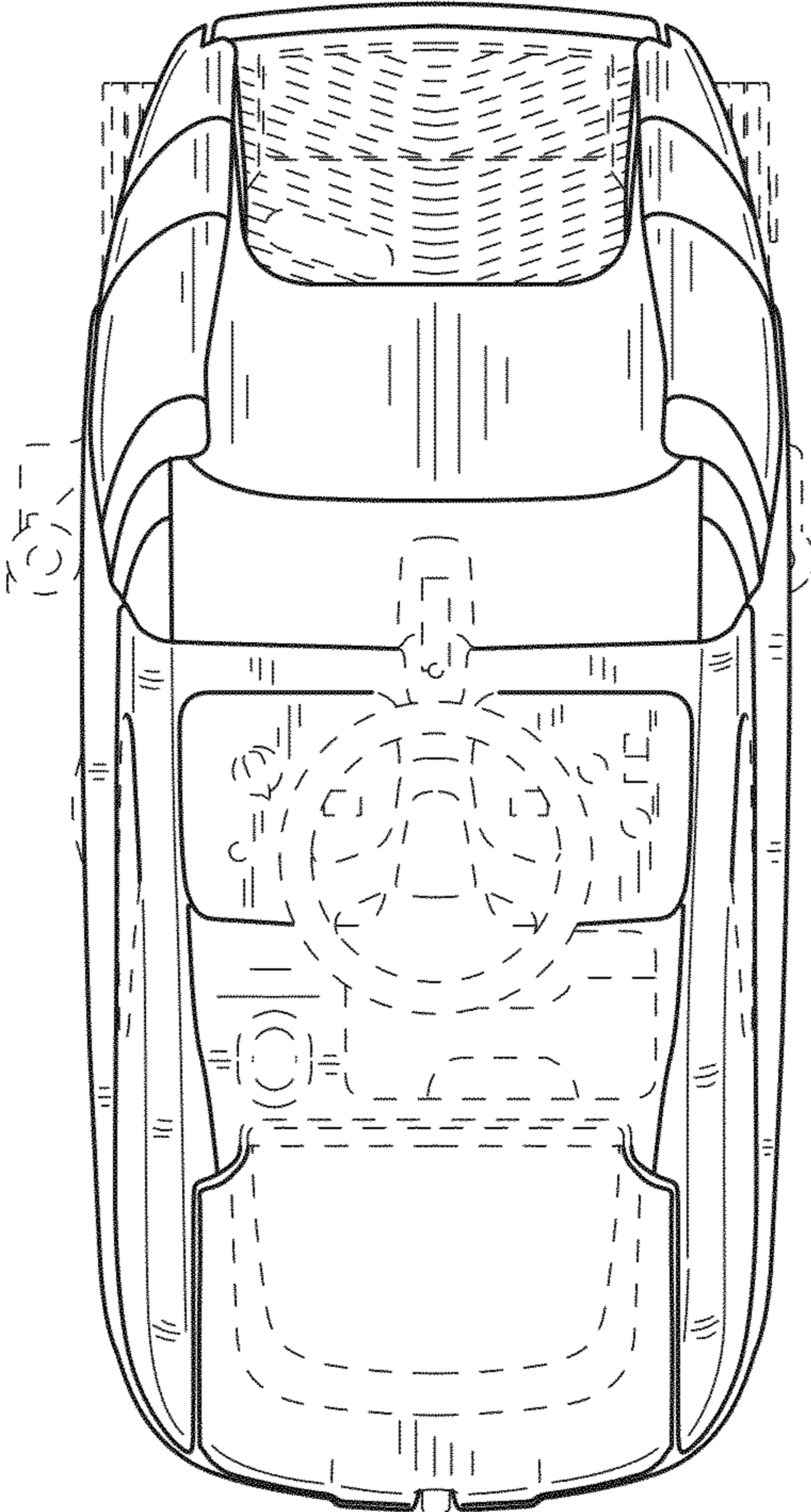


FIG.6