US00D854979S

(12) United States Design Patent

Krieg et al.

(10) Patent No.: US D854,979 S
(45) Date of Patent: ** Jul. 30, 2019

(54) **VEHICLE FRONT BUMPER**

(71) Applicant: **GM GLOBAL TECHNOLOGY OPERATIONS LLC**, Detroit, MI (US)

(72) Inventors: **Robin W. Krieg**, Bloomfield Hills, MI (US); **Bobin Kil**, Rochester, MI (US); **Panayiotis J. Karras**, Rochester, MI (US)

(73) Assignee: **GM GLOBAL TECHNOLOGY OPERATIONS LLC**, Detroit, MI (US)

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

(21) Appl. No.: **29/627,506**

(22) Filed: **Nov. 28, 2017**

(51) **LOC (11) Cl.** **12-16**

(52) **U.S. Cl.**
USPC **D12/169**

(58) **Field of Classification Search**
USPC D12/86, 90, 91, 92, 163, 169, 171, 196, D12/216
CPC B60R 19/02; B60R 19/04; B62D 25/00; B62D 25/06; B62D 25/08; B62D 35/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D528,051	S	*	9/2006	Fukui	D12/169
D537,389	S	*	2/2007	Beigel	D12/169
D540,722	S	*	4/2007	Angelo	D12/169
D570,742	S		6/2008	Takagi et al.	
D584,199	S	*	1/2009	Leclercq	D12/169
D592,105	S		5/2009	Dean et al.	
D597,447	S		8/2009	Folden	
D598,827	S	*	8/2009	Kanai	D12/169
D600,595	S		9/2009	Nakamura et al.	
D601,925	S		10/2009	O'Donnell	
D603,755	S		11/2009	Peters	
D604,203	S		11/2009	O'Donnell	
D605,082	S		12/2009	Munson	
D605,083	S		12/2009	Manoogian, II et al.	
D605,977	S		12/2009	Zipfel et al.	
D605,978	S		12/2009	Wolff et al.	
D608,249	S		1/2010	Peters	
D608,690	S		1/2010	Folden et al.	
D608,691	S		1/2010	Zak, Jr. et al.	
D609,608	S		2/2010	Boniface et al.	
D611,387	S		3/2010	Thompson et al.	
D611,879	S		3/2010	Kim et al.	
D612,297	S		3/2010	Peters et al.	
D613,645	S		4/2010	Song et al.	
D615,458	S		5/2010	Thompson et al.	
D618,595	S		6/2010	Ware et al.	
D623,090	S		9/2010	Cox et al.	
D626,042	S	*	10/2010	Yamazaki	D12/169
D627,262	S		11/2010	Ikeda et al.	

(Continued)

Primary Examiner — Susan Bennett Hattan
Assistant Examiner — Suzanne E Tisdell

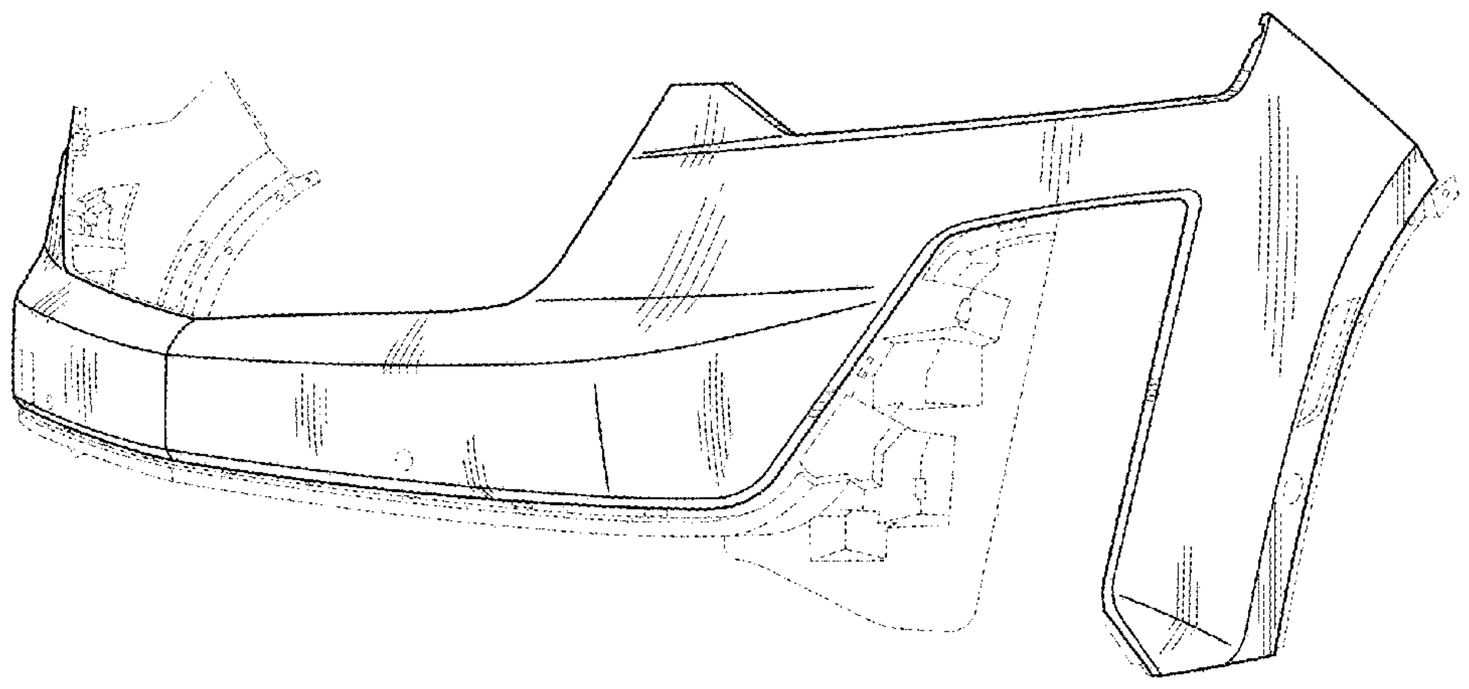
(57) **CLAIM**

The ornamental design for a vehicle front bumper, as shown and described.

DESCRIPTION

FIG. **1** is a front and left perspective view of a vehicle front bumper showing our new design;
FIG. **2** is a front elevation view thereof;
FIG. **3** is a left end elevation view thereof; and,
FIG. **4** is a top plan view thereof.
The right end elevation view is omitted, because the right end elevation view is a mirror image to the left end elevation view.
The broken lines shown in the drawings depict portions of the vehicle front bumper that form no part of the claimed design.
The shade lines in the figures show contour and not surface ornamentation.

1 Claim, 4 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D635,488	S		4/2011	Phipps	
D644,147	S		8/2011	Suh et al.	
D644,567	S		9/2011	Kozub	
D657,718	S		4/2012	Zipfel et al.	
D659,052	S		5/2012	Ware et al.	
D659,053	S		5/2012	Ware et al.	
D668,182	S		10/2012	Barba Franco et al.	
D668,183	S		10/2012	Smart	
D678,820	S		3/2013	Son et al.	
D678,821	S		3/2013	Ikeda et al.	
D680,479	S	*	4/2013	Frei	D12/169
D680,909	S		4/2013	Munson et al.	
D680,910	S		4/2013	David	
D684,899	S		6/2013	Baker	
D686,536	S		7/2013	McCabe et al.	
D687,752	S	*	8/2013	Fetherston	D12/169
D688,989	S	*	9/2013	Minamisawa	D12/169
D692,798	S		11/2013	Thurber	
D692,799	S		11/2013	Smith et al.	
D696,157	S		12/2013	Loeb	
D699,629	S		2/2014	Ikeda et al.	
D700,871	S		3/2014	O'Donnell et al.	
D702,161	S	*	4/2014	Hanaoka	D12/169
D703,103	S		4/2014	Lee	
D704,103	S		5/2014	Mack et al.	
D705,132	S		5/2014	Ware et al.	
D705,699	S		5/2014	Ware et al.	
D712,322	S	*	9/2014	Kobayashi	D12/169
D713,298	S		9/2014	Dyson	
D713,764	S		9/2014	Ferlazzo et al.	
D716,696	S		11/2014	Thole et al.	
D716,706	S		11/2014	Thole et al.	
D716,709	S		11/2014	Thole et al.	
D717,696	S		11/2014	Thole et al.	
D718,189	S		11/2014	Krieg et al.	
D718,683	S		12/2014	Thole et al.	
D721,305	S	*	1/2015	George	D12/169
D721,306	S	*	1/2015	George	D12/169
D722,282	S		2/2015	Loeb	
D722,533	S		2/2015	Thole et al.	
D722,534	S		2/2015	Munson et al.	
D722,926	S	*	2/2015	Kato	D12/169
D723,435	S	*	3/2015	Thole	D12/169
D724,510	S		3/2015	McMahan et al.	
D725,001	S		3/2015	McMahan et al.	
D726,591	S		4/2015	Jacob	
D726,602	S	*	4/2015	Rupar	D12/169
D729,707	S	*	5/2015	Thole	D12/169
D730,776	S		6/2015	Smart	
D730,783	S		6/2015	Henriques et al.	
D732,427	S		6/2015	Loeb	
D732,429	S		6/2015	Loeb	
D732,430	S		6/2015	Loeb	
D732,431	S		6/2015	Loeb	
D732,432	S		6/2015	Aengenheyster	
D732,433	S		6/2015	Aengenheyster	
D732,435	S		6/2015	Mackay	
D733,002	S		6/2015	Loeb	
D735,611	S		8/2015	Aengenheyster	
D735,627	S		8/2015	Smith	
D736,451	S		8/2015	Smith	
D739,306	S		9/2015	McMahan	
D739,317	S		9/2015	McMahan et al.	
D741,223	S		10/2015	Kim et al.	
D743,309	S		11/2015	Thole et al.	
D743,313	S		11/2015	Smith et al.	
D743,314	S		11/2015	Thole et al.	
D743,857	S		11/2015	McMahan et al.	
D744,158	S		11/2015	Willett et al.	
D745,086	S		12/2015	Finos et al.	
D745,719	S		12/2015	Boniface et al.	
D745,725	S		12/2015	McMahan et al.	
D745,726	S		12/2015	McMahan et al.	
D745,837	S		12/2015	Smith et al.	
D746,726	S		1/2016	Smith et al.	
D746,727	S		1/2016	Smith et al.	
D746,728	S		1/2016	Smith et al.	
D746,729	S		1/2016	Boniface et al.	
D746,730	S		1/2016	Kim et al.	
D747,514	S		1/2016	McMahan et al.	
D747,515	S		1/2016	McMahan et al.	
D747,819	S		1/2016	Thole et al.	
D749,021	S		2/2016	Boniface et al.	
D749,026	S		2/2016	Smith et al.	
D749,027	S		2/2016	McMahan et al.	
D749,246	S		2/2016	Thole et al.	
D749,249	S		2/2016	Thole et al.	
D749,250	S		2/2016	Thole et al.	
D749,985	S		2/2016	Kozub et al.	
D749,997	S		2/2016	McMahan et al.	
D750,001	S		2/2016	Thole et al.	
D750,539	S	*	3/2016	Iwauchi	D12/169
D753,032	S		4/2016	Smith et al.	
D753,033	S		4/2016	Thole et al.	
D753,034	S		4/2016	Thole et al.	
D753,035	S		4/2016	Boniface et al.	
D753,559	S		4/2016	McMahan et al.	
D753,560	S		4/2016	McMahan et al.	
D753,567	S		4/2016	Boniface et al.	
D754,571	S		4/2016	Boniface et al.	
D754,572	S		4/2016	McMahan et al.	
D755,088	S		5/2016	McMahan et al.	
D756,869	S		5/2016	McMahan et al.	
D758,271	S		6/2016	McMahan et al.	
D762,532	S	*	8/2016	Tsutamori	D12/169
D764,975	S	*	8/2016	Aengenheyster	D12/91
D764,976	S		8/2016	Aengenheyster	
D767,449	S		9/2016	Pevovar et al.	
D767,450	S		9/2016	Lee et al.	
D767,451	S		9/2016	Kozub et al.	
D767,454	S		9/2016	McMahan et al.	
D767,458	S		9/2016	Kim	
D767,459	S		9/2016	Kim	
D767,460	S		9/2016	Kozub et al.	
D767,461	S		9/2016	Kozub et al.	
D771,528	S		11/2016	Smith et al.	
D771,529	S		11/2016	Thole et al.	
D771,532	S		11/2016	Kapitonov	
D771,533	S		11/2016	Kapitonov	
D772,766	S		11/2016	Kozub et al.	
D772,767	S		11/2016	Kim	
D773,084	S		11/2016	Kapitonov	
D773,086	S		11/2016	McCabe et al.	
D774,226	S		12/2016	McCabe et al.	
D774,428	S	*	12/2016	Davidson	D12/169
D775,003	S		12/2016	Pevovar et al.	
D775,007	S		12/2016	Thole et al.	
D775,010	S		12/2016	Kim et al.	
D775,049	S		12/2016	Scheer et al.	
D775,549	S		1/2017	Karras	
D775,554	S		1/2017	Kapitonov	
D776,020	S		1/2017	Kapitonov	
D776,581	S		1/2017	Pevovar et al.	
D776,583	S		1/2017	Scheer et al.	
D776,841	S		1/2017	Kozub et al.	
D776,843	S		1/2017	McCabe et al.	
D776,846	S		1/2017	Willett et al.	
D777,359	S		1/2017	Kozub et al.	
D777,360	S		1/2017	Kozub et al.	
D777,361	S		1/2017	Kozub et al.	
D777,604	S		1/2017	McNerney	
D777,605	S		1/2017	Ferlazzo et al.	
D777,620	S		1/2017	Pevovar et al.	
D777,621	S		1/2017	Kim	
D777,622	S		1/2017	Kozub et al.	
D777,628	S		1/2017	Kozub et al.	
D777,955	S		1/2017	Willett et al.	
D778,212	S		2/2017	Kozub et al.	
D778,215	S		2/2017	Kozub et al.	
D780,064	S		2/2017	Smith et al.	
D780,067	S		2/2017	Zipfel et al.	
D780,068	S		2/2017	Whitla et al.	
D780,077	S		2/2017	Kim et al.	
D780,081	S		2/2017	Lee	

(56) **References Cited**

U.S. PATENT DOCUMENTS

D780,084	S		2/2017	Scheer et al.	
D780,631	S		3/2017	Kozub et al.	
D780,644	S		3/2017	Kim et al.	
D781,184	S		3/2017	Thole et al.	
D781,192	S		3/2017	Kozub et al.	
D782,379	S		3/2017	Wassell	
D783,482	S		4/2017	Smith et al.	
D784,213	S		4/2017	Karras	
D784,223	S		4/2017	Lee	
D784,226	S		4/2017	Cheng	
D784,579	S		4/2017	Cheng et al.	
D784,877	S		4/2017	Lee	
D784,886	S		4/2017	Smith et al.	
D785,521	S		5/2017	Smith et al.	
D786,149	S	*	5/2017	Pevovar	D12/169
D786,743	S		5/2017	Smith et al.	
D786,750	S		5/2017	Lee	
D787,446	S		5/2017	Cockerill	
D787,984	S		5/2017	Fang	
D787,988	S		5/2017	Lee	
D787,989	S		5/2017	Kozub et al.	
D787,990	S		5/2017	Kozub et al.	
D787,992	S		5/2017	Lee	
D787,993	S		5/2017	McCabe et al.	
D788,001	S		5/2017	Lee	
D788,641	S		6/2017	Arnold	
D788,644	S		6/2017	Mueller	
D788,645	S		6/2017	Mueller	
D788,657	S	*	6/2017	Oohashi	D12/169
D789,250	S		6/2017	Arnold	
D789,260	S		6/2017	Smith	
D789,575	S		6/2017	Willett	
D789,841	S		6/2017	Lee	
D789,849	S		6/2017	Lee	
D791,018	S		7/2017	Mylenek	
D791,644	S		7/2017	Fang	
D792,290	S		7/2017	Smith et al.	
D792,293	S		7/2017	McCabe et al.	
D792,294	S		7/2017	McCabe et al.	
D792,295	S		7/2017	McCabe et al.	
D792,815	S	*	7/2017	Kozub	D12/169
D792,816	S	*	7/2017	Kozub	D12/169
D793,290	S		8/2017	Kozub	
D793,292	S		8/2017	Lee	
D793,293	S		8/2017	Lee et al.	
D793,294	S		8/2017	Lee	
D793,295	S		8/2017	McCabe et al.	
D793,296	S	*	8/2017	Smith	D12/169
D793,297	S		8/2017	Smith et al.	
D793,299	S		8/2017	Krieg et al.	
D793,300	S		8/2017	Krieg et al.	
D793,301	S		8/2017	Kozub	
D793,302	S		8/2017	Kozub	
D793,311	S		8/2017	Whitla et al.	
D793,590	S		8/2017	Kozub et al.	
D793,591	S		8/2017	Kozub et al.	
D793,917	S		8/2017	Kozub	
D793,918	S		8/2017	Kozub	
D793,921	S	*	8/2017	Takamatsu	D12/169
D793,924	S	*	8/2017	Sagawa	D12/169
D794,229	S		8/2017	Barry	
D794,230	S		8/2017	Kozub	
D795,747	S		8/2017	Bailie	
D795,757	S		8/2017	Pevovar et al.	
D795,758	S		8/2017	Karras	
D795,759	S		8/2017	Kozub et al.	
D795,760	S		8/2017	Kozub et al.	
D795,762	S		8/2017	Lee	
D795,763	S		8/2017	Kozub	
D796,088	S		8/2017	McCabe et al.	
D796,093	S		8/2017	Mainville	
D796,390	S		9/2017	Pevovar et al.	
D797,019	S	*	9/2017	Yamashita	D12/169
D797,537	S		9/2017	Cooper et al.	
D797,603	S		9/2017	Noone et al.	
D797,614	S		9/2017	Lee	
D797,616	S		9/2017	Lee	
D797,617	S	*	9/2017	Mori	D12/169
D797,618	S	*	9/2017	Suzuki	D12/169
D797,624	S		9/2017	Nakamura	
D797,625	S		9/2017	Perkins	
D797,631	S		9/2017	Pevovar et al.	
D797,632	S		9/2017	Zipfel et al.	
D797,967	S		9/2017	Barry	
D797,970	S		9/2017	Mainville	
D797,971	S		9/2017	Mainville	
D797,972	S		9/2017	Whitla et al.	
D798,204	S		9/2017	Mainville	
D799,384	S		10/2017	Kozub et al.	
D799,385	S		10/2017	Kozub et al.	
D799,386	S		10/2017	Kozub et al.	
D799,728	S		10/2017	Whitla et al.	
D800,035	S	*	10/2017	Takamatsu	D12/169
D800,614	S	*	10/2017	Park	D12/169
D803,112	S	*	11/2017	Tomita	D12/169
D805,449	S	*	12/2017	Chung	D12/169
D807,248	S	*	1/2018	Piscitelli	D12/169
D807,250	S	*	1/2018	Piscitelli	D12/169
D807,252	S	*	1/2018	Piscitelli	D12/169
D807,254	S	*	1/2018	Piscitelli	D12/169
D807,257	S	*	1/2018	Piscitelli	D12/169
D807,258	S	*	1/2018	Patel	D12/169
2004/0032133	A1	*	2/2004	Bird	B60R 19/04 293/154
2006/0249961	A1	*	11/2006	Flotzinger	B60R 19/04 293/115
2006/0290169	A1	*	12/2006	Fukushima	B60Q 1/302 296/180.1

* cited by examiner

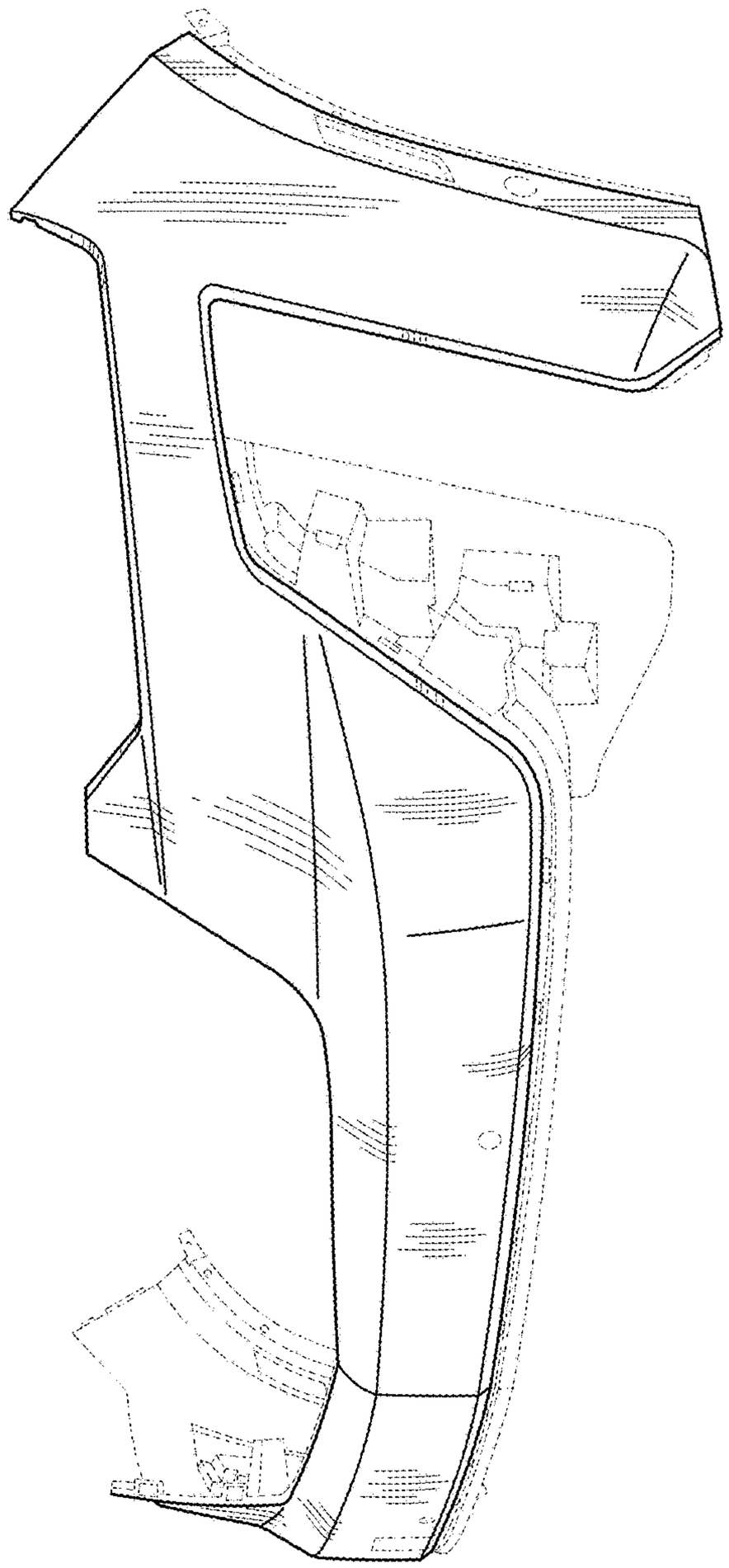


FIG - 1

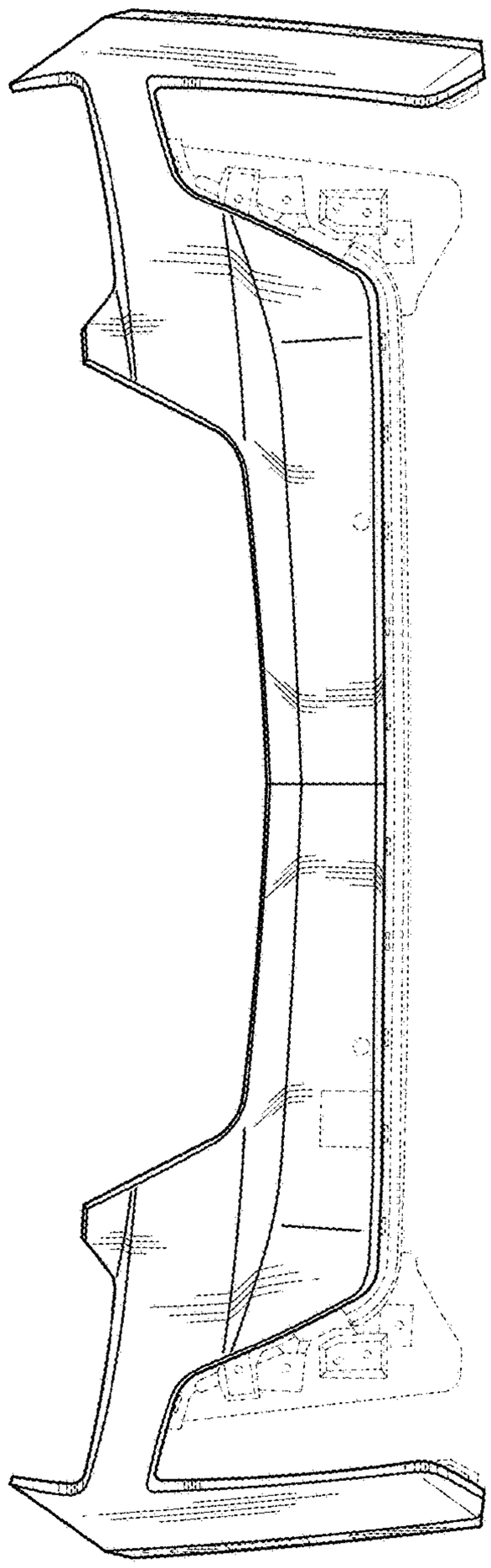


FIG. 2

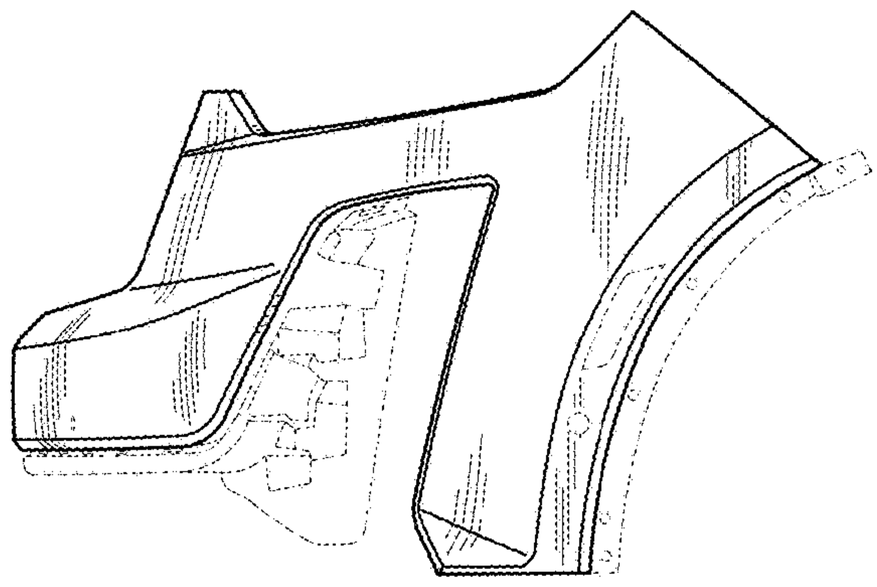


FIG - 3

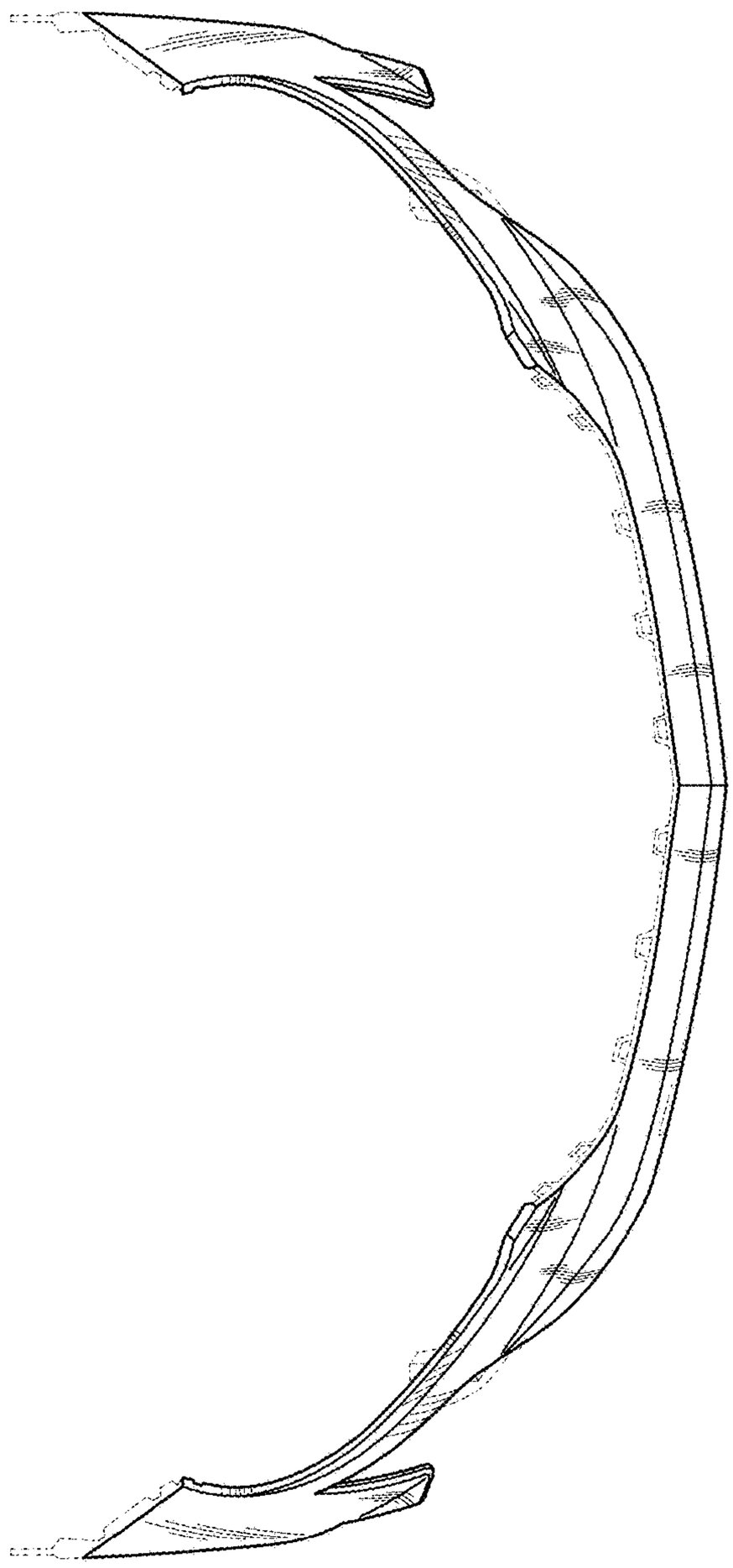


FIG - 4