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

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(54) **VEHICLE FRONT BUMPER**

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

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

(58) **Field of Classification Search**
USPC D12/86, 91, 93, 163, 164, 165, 166, 167, D12/169, 171, 172, 173, 190, 216
CPC B60R 9/06; B60R 19/02; B60R 19/04; B60R 19/18; B60R 19/44; B60R 19/48; B62D 35/02; B62D 39/00; B62D 65/16; B62D 21/12; B29C 45/16
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,729,682	B2 *	5/2004	Delavalle	B62D 25/08 296/193.08
D570,742	S	6/2008	Takagi et al.	
D592,105	S	5/2009	Dean et al.	
D597,447	S	8/2009	Folden	
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.	
D627,262	S	11/2010	Ikeda et al.	
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.	

(Continued)

Primary Examiner — Susan Bennett Hattan
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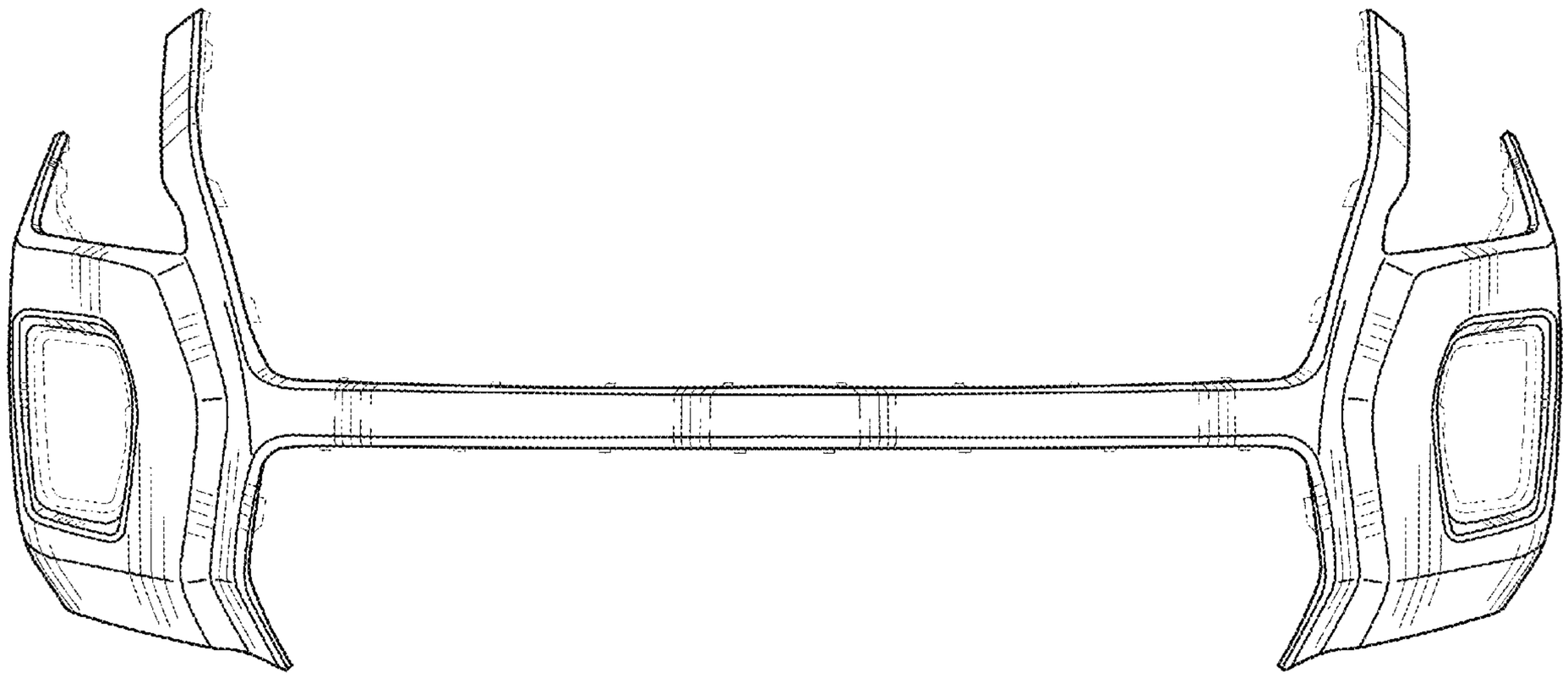
(57) **CLAIM**

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

DESCRIPTION

FIG. **1** is a front and left perspective view of the vehicle front bumper according to the present disclosure;
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

D659,053	S		5/2012	Ware et al.
D668,182	S		10/2012	Franco et al.
D668,183	S		10/2012	Smart
8,303,030	B2	*	11/2012	Baccouche B60R 19/24 296/203.01
D678,820	S		3/2013	Son et al.
D678,821	S		3/2013	Ikeda et al.
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.
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.
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.
D713,298	S		9/2014	Dyson
D713,764	S		9/2014	Ferlazzo et al.
D715,708	S	*	10/2014	Mays D12/169
D715,709	S	*	10/2014	Matsumoto D12/169
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.
D722,282	S		2/2015	Loeb
D722,533	S		2/2015	Thole et al.
D722,534	S		2/2015	Munson et al.
D724,510	S		3/2015	McMahan et al.
D725,001	S		3/2015	McMahan et al.
D726,591	S		4/2015	Jacob
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 et al.
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.
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.
D764,975	S		8/2016	Aengenheyster
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
D772,118	S	*	11/2016	Schneider D12/169
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.
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
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.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D786,149	S		5/2017	Pevovar et al.	
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	Malczewski	
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	
D792,816	S		7/2017	Kozub	
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 et al.	
D793,297	S		8/2017	Smith et al.	
D793,299	S		8/2017	Kreig et al.	
D793,300	S		8/2017	Kreig 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	
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.	
D797,537	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	
D797,624	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.	
D801,236	S		10/2017	Kozub et al.	
D801,237	S	*	10/2017	Jang	D12/169
D801,577	S		10/2017	Ruiz	
D801,882	S		11/2017	Kozub et al.	
D801,883	S	*	11/2017	Fujiwara	D12/169
D802,205	S		11/2017	Ruiz	
D802,478	S		11/2017	Perkins	
D802,491	S		11/2017	Mainville	
D802,496	S		11/2017	Mainville	
D802,502	S		11/2017	McMahan	
D803,727	S		11/2017	Noone et al.	
D803,731	S		11/2017	Zipfel	
D803,738	S	*	11/2017	Granlund	D12/169
D804,370	S		12/2017	Kozub et al.	
D804,371	S		12/2017	Whitla et al.	
D804,372	S		12/2017	Kozub	
D804,378	S		12/2017	Perkins	
D804,379	S		12/2017	McMahan	
D805,006	S		12/2017	Nakamura	
D805,013	S		12/2017	Whitla	
D805,014	S		12/2017	Zipfel	
D805,441	S		12/2017	Karras	
D805,964	S		12/2017	Whitla	
D805,965	S		12/2017	Davis	
D805,966	S		12/2017	Perkins	
D805,985	S		12/2017	Nakamura	
D807,232	S		1/2018	Bailie	
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D807,241	S		1/2018	Perkins	
D807,249	S	*	1/2018	Piscitelli	D12/169
D807,250	S	*	1/2018	Piscitelli	D12/169
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D807,257	S	*	1/2018	Piscitelli	D12/169
D807,799	S	*	1/2018	Kimura	D12/169
D809,442	S		2/2018	Zipfel et al.	
D809,981	S	*	2/2018	Seo	D12/169
D811,269	S		2/2018	Thompson et al.	
D811,289	S	*	2/2018	Bucher	D12/169
D811,291	S	*	2/2018	Ishigaki	D12/169
D811,942	S		3/2018	Jacob	
D811,957	S		3/2018	Whitla et al.	
D811,958	S		3/2018	Zipfel et al.	
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D811,960	S		3/2018	Nakamura	
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D811,964	S	*	3/2018	Perkins	D12/169
D811,965	S		3/2018	Moffett et al.	
D812,525	S		3/2018	Lee	
D812,526	S		3/2018	Zipfel et al.	
D812,527	S		3/2018	Perkins	
D812,528	S		3/2018	Nakamura	
D813,740	S	*	3/2018	Park	D12/169
D814,369	S	*	4/2018	Loeb	D12/169
D816,566	S	*	5/2018	Loeb	D12/169
D817,235	S	*	5/2018	Bucher	D12/169
D817,826	S	*	5/2018	Seo	D12/169
D819,517	S	*	6/2018	Arai	D12/169
D819,529	S	*	6/2018	Szavits	D12/173
D820,174	S	*	6/2018	Whitla	D12/169

* cited by examiner

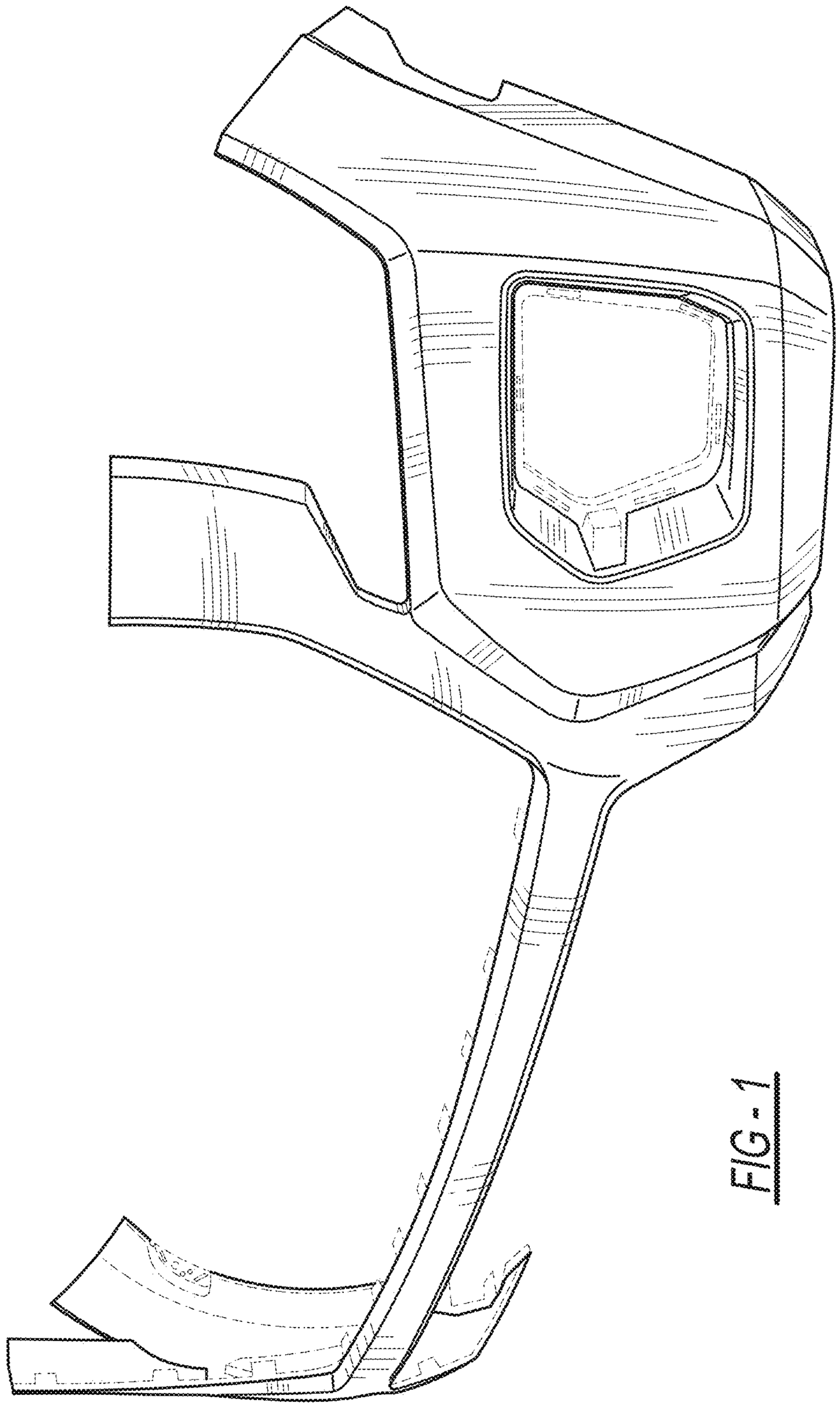

FIG. 1

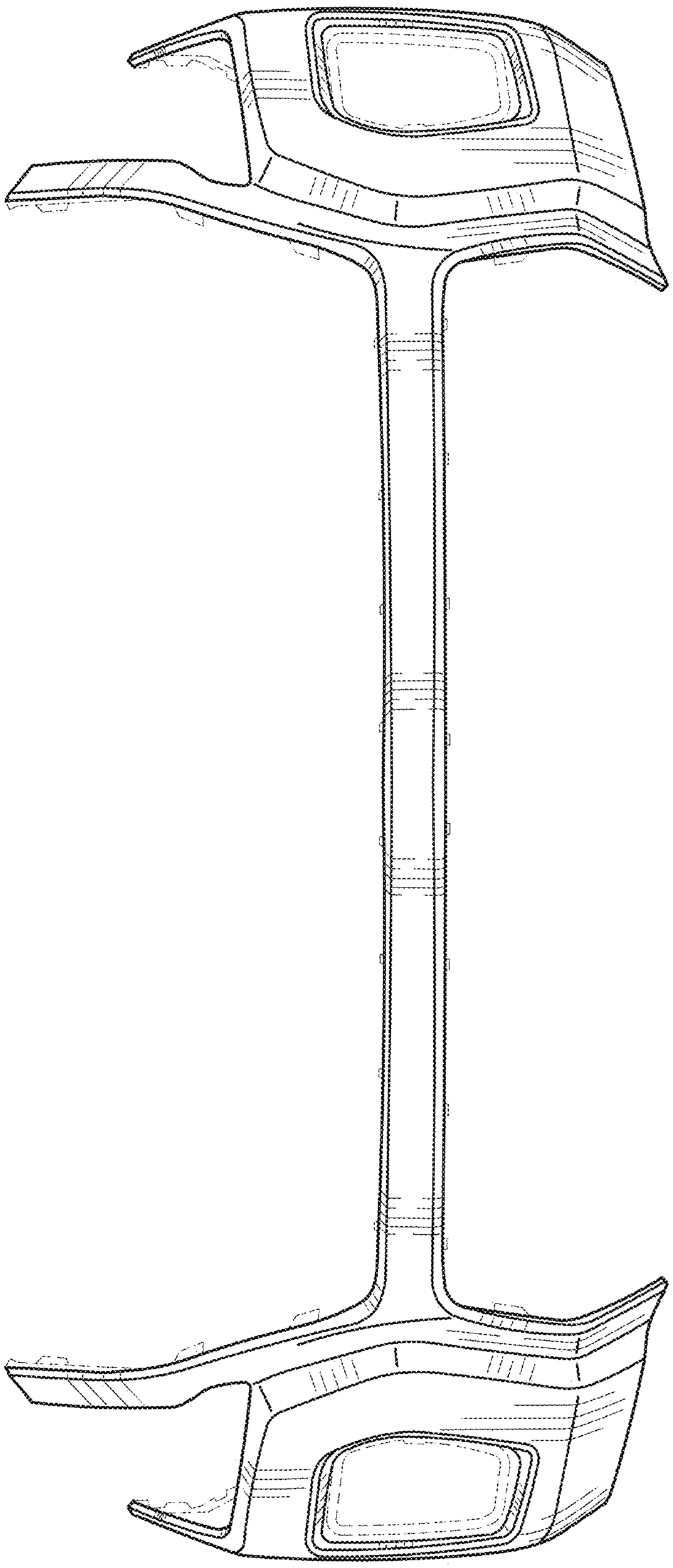

FIG. 2

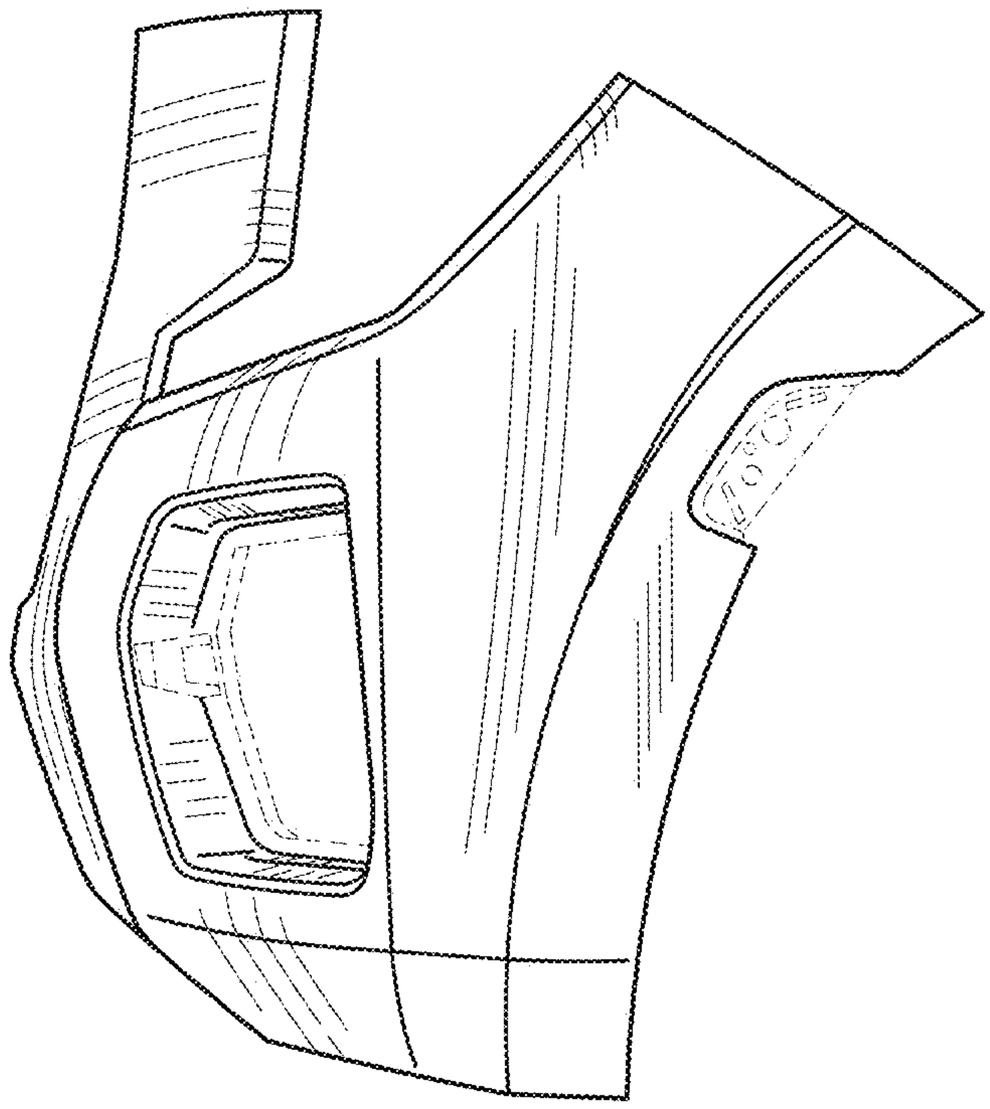

FIG - 3

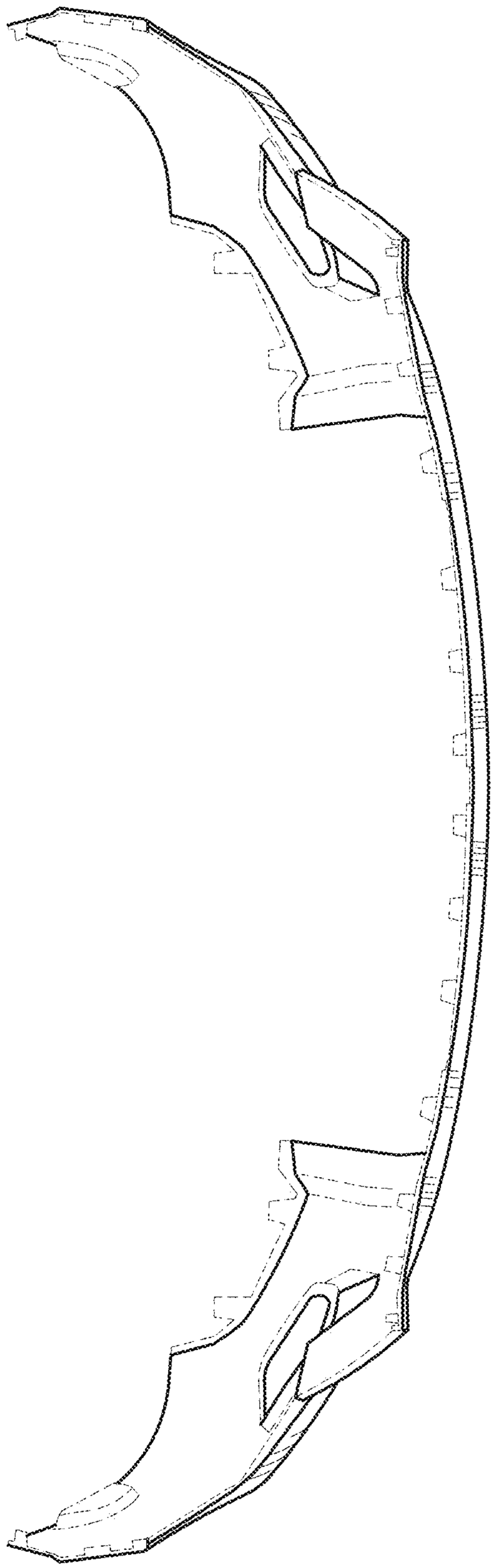

FIG. 4