US00D877003S

(12) United States Design Patent

Izard

(10) Patent No.: US D877,003 S
(45) Date of Patent: ** Mar. 3, 2020

(54) **VEHICLE FRONT FASCIA LOWER**

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

(72) Inventor: **Brian M. Izard**, Northville, MI (US)

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

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

(21) Appl. No.: **29/642,261**

(22) Filed: **Mar. 28, 2018**

(51) **LOC (12) 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; B60R 19/12; B60R 19/52; B60K 11/08; B62D 25/08
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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.
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.

(Continued)

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

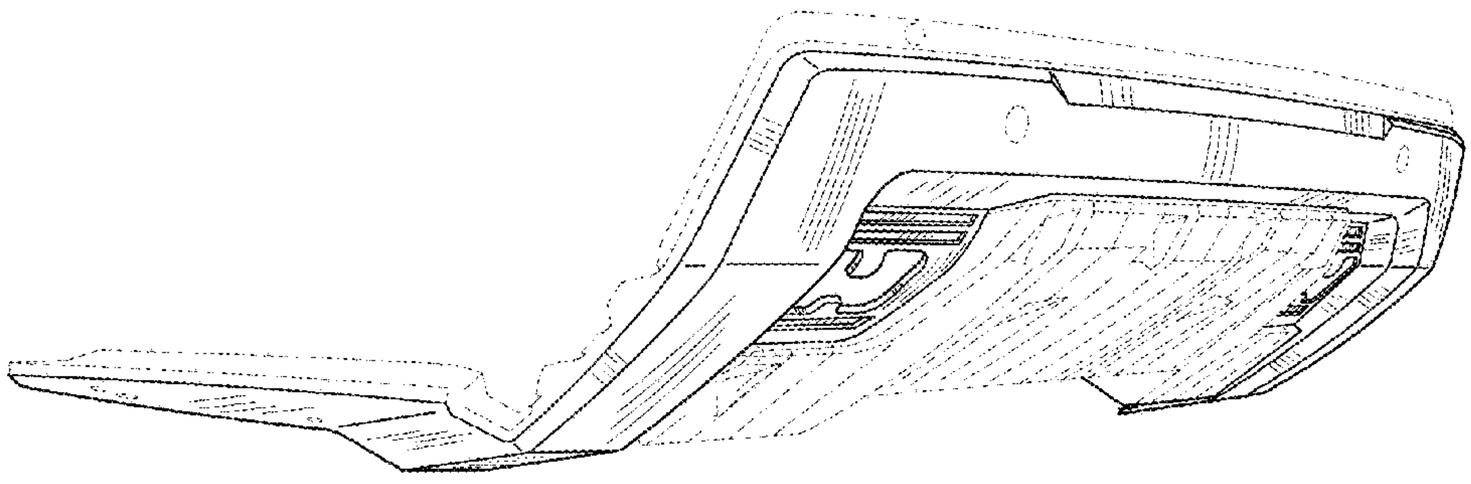
(57) **CLAIM**

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

DESCRIPTION

FIG. **1** is a front and left perspective view of a vehicle front fascia lower;
FIG. **2** is a left end elevation view thereof;
FIG. **3** is a front elevation view thereof; and,
FIG. **4** is a bottom 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 fascia lower that form no part of the claimed design.
The shade lines in the figures show contour and not surface ornamentation.

1 Claim, 3 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

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
D698,708	S	*	2/2014	Rupar D12/169
D699,629	S		2/2014	Ikeda et al.
D700,871	S		3/2014	O'Donnell et al.
D701,800	S	*	4/2014	Campbell 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.
D711,653	S	*	8/2014	Pacetti D3/318
D712,322	S	*	9/2014	Kobayashi D12/169
D712,805	S	*	9/2014	Murkett 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.
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.
D742,119	S	*	11/2015	Batista D3/318
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.
D744,915	S	*	12/2015	Curic D12/169
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.
D751,003	S	*	3/2016	Rupar D12/163
D751,007	S	*	3/2016	Curic 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.
D753,036	S	*	4/2016	Curic D12/169
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.
D758,259	S	*	6/2016	Messale D12/169
D758,271	S		6/2016	McMahan et al.
D762,147	S	*	7/2016	Messale D12/169
D763,143	S	*	8/2016	Varga D12/169
D763,744	S	*	8/2016	Behmer D12/169
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
D771,536	S	*	11/2016	Wolff 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.
D775,038	S	*	12/2016	Frascella D12/169
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
D776,021	S	*	1/2017	Kapitonov D12/169
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.
D781,586	S	*	3/2017	Reinhart D3/318

(56) **References Cited**

U.S. PATENT DOCUMENTS

D781,587	S	*	3/2017	Mangano	D3/318
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 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	
D789,250	S		6/2017	Arnold	
D789,260	S		6/2017	Smith et al.	
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	
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	D12/169
D793,295	S	*	8/2017	McCabe	D12/169
D793,296	S		8/2017	Smith et al.	
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	
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.	
D797,456	S	*	9/2017	Chen	D3/318
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	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.	
D798,201	S	*	9/2017	Zavatski	D12/169
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.	
D800,621	S	*	10/2017	Bucher	D12/196
D801,236	S	*	10/2017	Kozub	D12/169
D801,577	S		10/2017	Ruiz	
D801,882	S		11/2017	Kozub et al.	
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	
D807,239	S		1/2018	Perkins	
D807,240	S		1/2018	Perkins	
D807,241	S		1/2018	Perkins	
D807,255	S	*	1/2018	Piscitelli	D12/169
D809,442	S		2/2018	Zipfel et al.	
D811,269	S		2/2018	Thompson et al.	
D811,942	S		3/2018	Jacob	
D811,957	S		3/2018	Whitla et al.	
D811,958	S		3/2018	Zipfel et al.	
D811,959	S		3/2018	Perkins	
D811,960	S		3/2018	Nakamura	
D811,961	S		3/2018	Sullivan	
D811,962	S		3/2018	Sullivan	
D811,963	S		3/2018	Sullivan	
D811,964	S		3/2018	Perkins	
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	
D813,731	S		3/2018	McMahan	
D813,732	S		3/2018	Whitla et al.	
D813,733	S		3/2018	Lee	
D813,734	S		3/2018	Nakamura	
D813,740	S		3/2018	Park	
D813,741	S		3/2018	Perkins	
D813,742	S		3/2018	McMahan et al.	
D813,743	S		3/2018	Lee	
D813,744	S		3/2018	Whitla et al.	
D813,748	S		3/2018	Kim	
D813,753	S		3/2018	Loeb	
D813,754	S		3/2018	Loeb	
D813,755	S		3/2018	Loeb	
D813,756	S		3/2018	Loeb	
D813,757	S		3/2018	Kozub	
D813,758	S		3/2018	Gonzales	
D813,759	S		3/2018	Perkins	
D814,369	S		4/2018	Loeb	
D814,982	S		4/2018	Whitla et al.	
D814,983	S		4/2018	Whitla et al.	
D815,570	S		4/2018	McMahan et al.	
D815,572	S		4/2018	Perkins	
D815,573	S		4/2018	Whitla et al.	
D815,574	S		4/2018	Mainville	

(56) **References Cited**

U.S. PATENT DOCUMENTS

D815,985	S	4/2018	Mueller
D815,993	S	4/2018	Kozub et al.
D815,994	S	4/2018	Nakamura
D816,003	S	4/2018	Perkins
D816,558	S	5/2018	McMahan et al.
D816,559	S	5/2018	McMahan et al.
D816,561	S	5/2018	McMahan
D816,562	S	5/2018	Whitla et al.
D816,563	S	5/2018	McMahan et al.
D816,564	S	5/2018	Kim
D816,565	S	5/2018	Kim
D816,566	S	5/2018	Loeb
D817,836	S	5/2018	McMahan et al.
D818,156	S	5/2018	Kim et al.
D818,157	S	5/2018	Zipfel et al.
D818,158	S	5/2018	Zipfel et al.
D818,159	S	5/2018	Zipfel et al.
D818,160	S	5/2018	Perkins
D818,406	S	5/2018	McMahan et al.
D818,876	S	5/2018	Whitla et al.
D818,877	S	5/2018	Nakamura et al.
D818,878	S	5/2018	McMahan et al.
D818,892	S	5/2018	Lee
D818,893	S	5/2018	Kim
D818,903	S	5/2018	Zipfel et al.
D818,906	S	5/2018	McMahan
D818,907	S	5/2018	Whitla et al.
D818,915	S	5/2018	Kozub et al.
D818,922	S	5/2018	Whitla et al.
D819,505	S	6/2018	McMahan et al.
D819,519	S	6/2018	Whitla et al.
D821,617	S	6/2018	Perkins
D822,550	S	7/2018	Wassell et al.
D822,551	S	7/2018	McMahan et al.
D823,188	S	7/2018	Loeb
D823,738	S	7/2018	Kim
D823,741	S	7/2018	Kim
D823,762	S	7/2018	Loeb
D823,763	S	7/2018	Koo et al.
D824,811	S	8/2018	Mainville
D824,812	S	8/2018	Loeb
D824,824	S	8/2018	Kim
D824,825	S	8/2018	Loeb
D825,083	S	8/2018	Perkins
D825,388	S	8/2018	Karras et al.
D825,403	S	8/2018	Whitla et al.
D826,114	S	8/2018	Smith et al.
D826,435	S	8/2018	Kim
D826,803	S	8/2018	Smith et al.
D827,506	S	9/2018	McMahan et al.
D827,508	S	9/2018	Whitla et al.
D827,510	S	9/2018	Kim
D827,527	S	9/2018	Loeb
D828,246	S	9/2018	Loeb
D828,261	S	9/2018	Moffett et al.
D828,935	S	9/2018	Hochmuth
D829,622	S	10/2018	Jacob
D830,241	S	10/2018	Kozub
D830,242	S	10/2018	Zipfel
D830,252	S	10/2018	Swanseger
D830,258	S	10/2018	McMahan et al.
D830,261	S	10/2018	Jacob
D830,589	S	10/2018	Henriques
D832,752	S	11/2018	Lee
D835,003	S	12/2018	Thompson et al.
D835,012	S	12/2018	Smith et al.
D837,105	S	1/2019	Loeb
D837,109	S	1/2019	Kozub et al.
D837,424	S	1/2019	Whitla et al.
D838,015	S	1/2019	McMahan et al.
D838,016	S	1/2019	McMahan et al.
D838,390	S	1/2019	McMahan et al.
D838,391	S	1/2019	McMahan et al.
D839,157	S	1/2019	Smith et al.
D839,163	S	1/2019	Pinazzo et al.
D839,164	S	1/2019	Zipfel
D839,460	S	1/2019	Zipfel et al.
D840,068	S	2/2019	Zipfel et al.
D840,069	S	2/2019	Perkins
D840,285	S	2/2019	Mack et al.
D840,286	S	2/2019	Mack et al.
D840,293	S	2/2019	Koo et al.
D840,302	S	2/2019	O'Donnell et al.
D840,303	S	2/2019	Park Cheng
D840,306	S	2/2019	Kozub
D840,565	S	2/2019	Whitla et al.
D840,570	S	2/2019	Kim et al.
D840,571	S	2/2019	Zipfel et al.
D840,572	S	2/2019	Perkins
D840,885	S	2/2019	Park Cheng
D841,527	S	2/2019	Kozub et al.
D841,532	S	2/2019	Koo et al.
D841,540	S	2/2019	Koo et al.
D841,541	S	2/2019	Krieg
D841,542	S	2/2019	Koo et al.
D841,547	S	2/2019	Zipfel et al.
D841,843	S	2/2019	Park
D841,844	S	2/2019	Perkins
D841,845	S	2/2019	Park
D842,178	S	3/2019	Pinazzo et al.
D842,306	S	3/2019	Lindo et al.
D843,023	S	3/2019	Whitla et al.
D843,024	S	3/2019	Hockmuth
D843,025	S	3/2019	Smith et al.
D843,275	S	3/2019	Koo et al.
D843,280	S	3/2019	Thurber et al.
D843,614	S	3/2019	Whitla et al.
D843,616	S	3/2019	Smith et al.
D843,617	S	3/2019	Smith et al.
D843,891	S	3/2019	Thompson et al.
D843,904	S	3/2019	Kim
D844,184	S	3/2019	Whitla et al.
D844,185	S	3/2019	Hochmuth
D844,186	S	3/2019	Smith et al.
D845,184	S	4/2019	Zipfel
D845,186	S	4/2019	Koo et al.
D845,187	S	4/2019	Pinazzo et al.
D845,188	S	4/2019	Pinazzo et al.
D845,189	S	4/2019	Pinazzo et al.
D845,190	S	4/2019	Zipfel
D845,196	S	4/2019	Kozub
D845,518	S	4/2019	Kozub
D845,519	S	4/2019	Zipfel
D846,448	S	4/2019	Loeb
D846,457	S	4/2019	Koo et al.
D846,458	S	4/2019	Mack et al.
D846,769	S	4/2019	Koo et al.
D846,770	S	4/2019	Kozub
D846,771	S	4/2019	Zipfel
D846,772	S	4/2019	Pinazzo et al.
D847,027	S	4/2019	Loeb
D847,028	S	4/2019	Loeb
D847,038	S	4/2019	Loeb
D847,041	S	4/2019	Blanski et al.
D847,042	S	4/2019	Pinazzo et al.
D847,043	S	4/2019	Kozub
D847,044	S	4/2019	Zipfel
D847,045	S	4/2019	Whitla et al.
D847,046	S	4/2019	Whitla et al.
D847,047	S	4/2019	Krieg et al.
D847,390	S	4/2019	Koo et al.
D847,391	S	4/2019	Pinazzo et al.
D847,392	S	4/2019	Zipfel
D847,699	S	5/2019	Kozub
D847,700	S	5/2019	Kozub
D847,701	S	5/2019	Kozub
D847,702	S	5/2019	Zipfel
D847,703	S	5/2019	Kozub
D847,704	S	5/2019	Zipfel
D847,705	S	5/2019	Zipfel
D847,707	S	5/2019	Park Cheng et al.
D847,714	S	5/2019	Mack et al.
D848,315	S	5/2019	Koo et al.
D848,318	S	5/2019	McMahan et al.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D848,320	S	5/2019	Pinazzo et al.
D848,322	S	5/2019	Mack et al.
D848,323	S	5/2019	Mack et al.
D848,324	S	5/2019	Thurber et al.
D848,325	S	5/2019	Thurber et al.
D848,647	S	5/2019	Kozub
D848,908	S	5/2019	Krieg
D848,909	S	5/2019	Lee
D848,911	S	5/2019	De Leon
D848,915	S	5/2019	Izard
D849,627	S	5/2019	Zipfel
D849,629	S	5/2019	De Leon
D849,630	S	5/2019	De Leon
D850,341	S	6/2019	Riggs et al.
D850,989	S	6/2019	Kozub
D851,002	S	6/2019	Kozub
D851,541	S	6/2019	Pinazzo
D851,542	S	6/2019	Mack
D851,547	S	6/2019	Mack et al.
D851,548	S	6/2019	Mack et al.
D851,549	S	6/2019	Mack et al.
D851,550	S	6/2019	Mack et al.
D851,551	S	6/2019	Mack et al.
D851,552	S	6/2019	Mack et al.
D851,555	S	6/2019	Whitla et al.
D851,556	S	6/2019	Thurber et al.
D851,557	S	6/2019	Thurber et al.
D851,558	S	6/2019	Thurber et al.
D851,559	S	6/2019	Thurber et al.
D851,560	S	6/2019	Yong et al.
D851,561	S	6/2019	Yong et al.
D852,093	S	6/2019	Kozub
D852,094	S	6/2019	Zipfel
D852,096	S	6/2019	Kozub
D852,099	S	6/2019	Loeb
D852,389	S	6/2019	Koo et al.
D852,393	S	6/2019	Whitla et al.
D853,903	S	7/2019	Loeb
D853,904	S	7/2019	Koo et al.
D853,924	S	7/2019	Riggs et al.
D854,462	S	7/2019	Lee
D854,471	S	7/2019	Lee
D854,977	S	7/2019	Parkinson et al.
D854,979	S	7/2019	Krieg et al.
D854,988	S	7/2019	Krieg
D854,991	S	7/2019	Whitla et al.
D855,503	S	8/2019	Blanski et al.
D855,504	S	8/2019	Lee
D855,505	S	8/2019	Thurber et al.
D855,507	S	8/2019	Blanski et al.
D855,508	S	8/2019	Wilkins et al.
D855,509	S	8/2019	Wilkins
D855,515	S	8/2019	Riggs et al.
D855,518	S	8/2019	Whitla et al.
D855,520	S	8/2019	Parkinson
D855,523	S	8/2019	Perkins
D855,524	S	8/2019	Lee
D856,201	S	8/2019	Blanski et al.
D856,204	S	8/2019	Kapitonov
D856,206	S	8/2019	De Leon
D856,242	S	8/2019	Blanski et al.
D856,864	S	8/2019	Kapitonov
D856,874	S	8/2019	Kozub
D856,875	S	8/2019	Kozub
D856,876	S	8/2019	Kapitonov
D857,260	S	8/2019	Kil et al.
D857,567	S	8/2019	Blanski et al.
D857,936	S	8/2019	Kil et al.
D857,938	S	8/2019	Blanski et al.
D857,939	S	8/2019	Kozub
D857,940	S	8/2019	Park
D857,941	S	8/2019	Whitla et al.
D857,942	S	8/2019	Perkins
D857,943	S	8/2019	Hochmuth
D857,944	S	8/2019	Pinazzo et al.
D857,945	S	8/2019	Smith et al.
D857,946	S	8/2019	Smith et al.
D857,947	S	8/2019	Koo et al.
D857,948	S	8/2019	Koo et al.
D857,949	S	8/2019	Smith et al.
D857,950	S	8/2019	Zipfel
D857,951	S	8/2019	Whitla et al.
D857,952	S	8/2019	Smith et al.
D858,373	S	9/2019	Blanski et al.
D858,377	S	9/2019	Riggs et al.
D858,813	S	9/2019	Datta
D858,814	S	9/2019	Burns
D858,817	S	9/2019	Henriques
D858,818	S	9/2019	McMahan et al.
D858,819	S	9/2019	McMahan et al.
D858,820	S	9/2019	McMahan et al.
D858,821	S	9/2019	Park
D858,822	S	9/2019	Whitla et al.
D858,823	S	9/2019	Zipfel
D858,824	S	9/2019	Yang et al.
D859,229	S	9/2019	Karras et al.
D859,230	S	9/2019	Parkinson et al.
D859,231	S	9/2019	Wilkins et al.
D859,232	S	9/2019	Izard et al.
D859,233	S	9/2019	Izard et al.
D859,237	S	9/2019	Koo et al.
D859,238	S	9/2019	Smith et al.
D859,239	S	9/2019	Sullivan et al.
D859,246	S	9/2019	Thurber et al.
D859,248	S	9/2019	Wilkins et al.
D859,252	S	9/2019	Krieg
D859,253	S	9/2019	Izard
D859,254	S	9/2019	Izard
D859,707	S	9/2019	McMahan et al.
D859,708	S	9/2019	Kozub
D859,709	S	9/2019	Zipfel
D860,075	S	9/2019	Riggs et al.
D860,076	S	9/2019	Bartels et al.
D860,077	S	9/2019	Riggs et al.
D860,078	S	9/2019	O'Donnell et al.
D860,079	S	9/2019	Sullivan et al.
D860,085	S	9/2019	Koo et al.
D860,489	S	9/2019	Henriques
D860,490	S	9/2019	Henriques

* cited by examiner

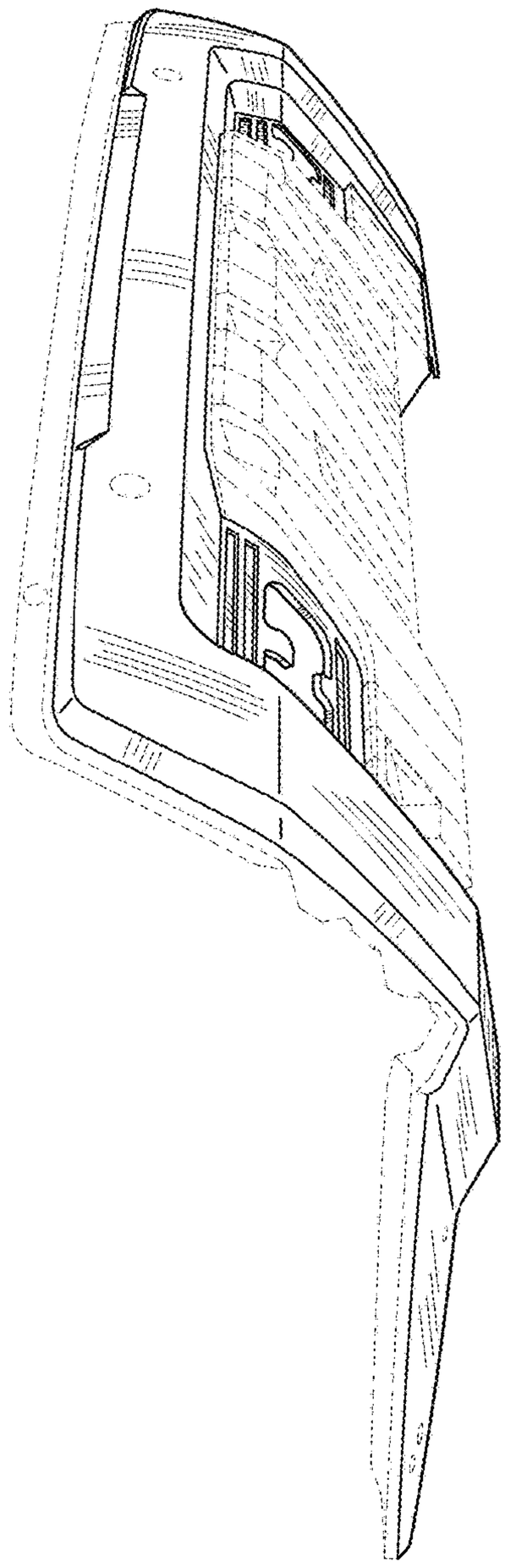


FIG - 1

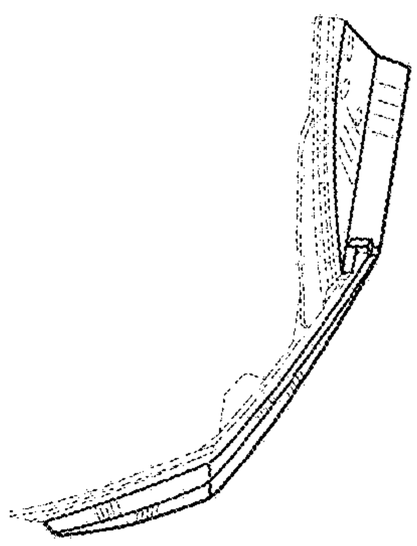


FIG - 2

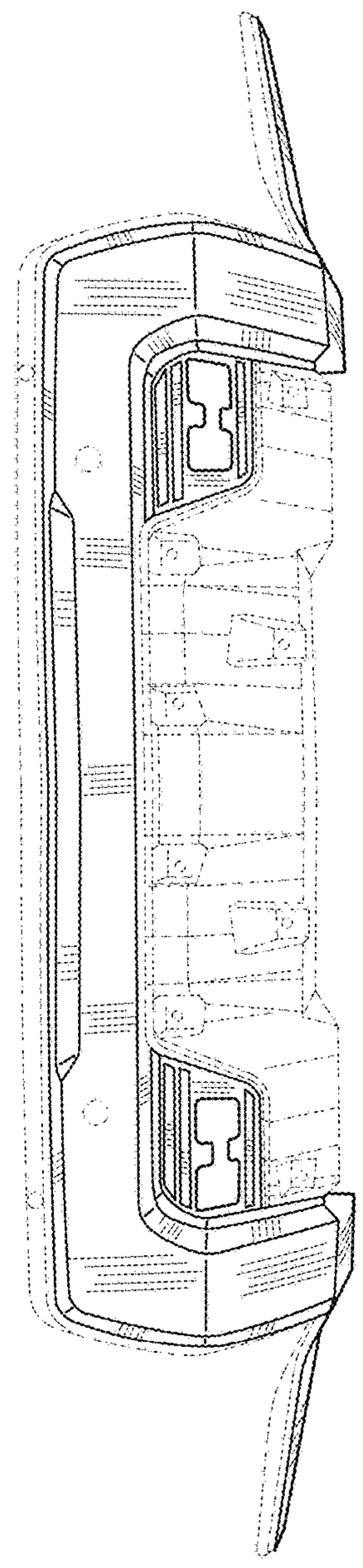


FIG - 3

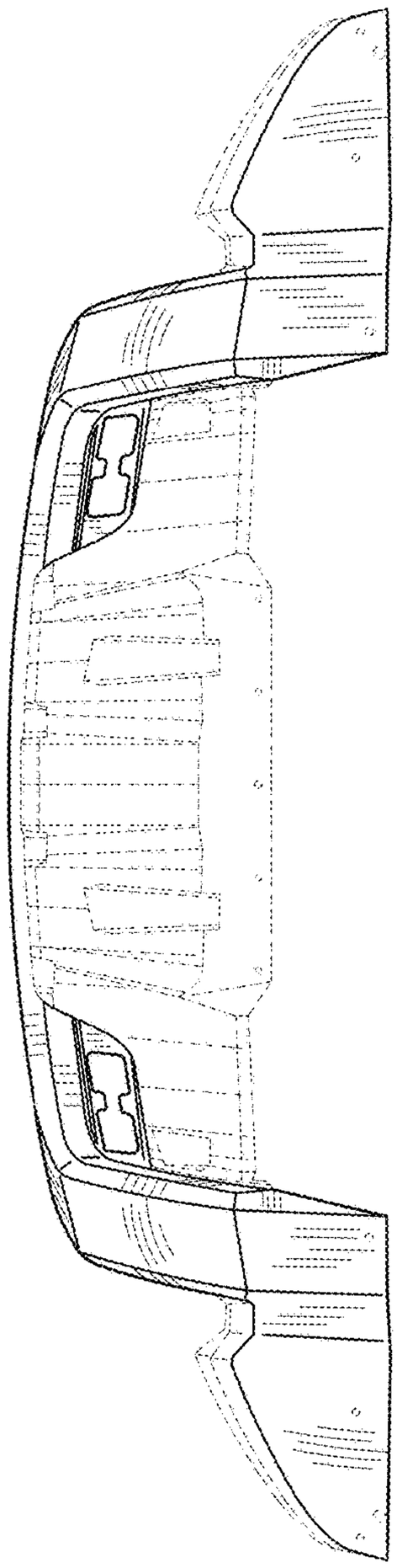


FIG - 4