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(12) **United States Design Patent** (10) **Patent No.:** **US D847,045 S**
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(54) **VEHICLE REAR BUMPER**
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(58) **Field of Classification Search**
USPC D12/169, 196, 86, 90-92; 293/102, 113, 293/115, 117, 120; 296/180.1, 180.2
CPC B60R 19/02; B60R 19/04; B62D 25/08
See application file for complete search history.

D608,691 S 1/2010 Zak, Jr. et al.
D609,608 S 2/2010 Boniface et al.
D610,957 S * 3/2010 Bucher D12/169
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 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.

(Continued)

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(57) **CLAIM**

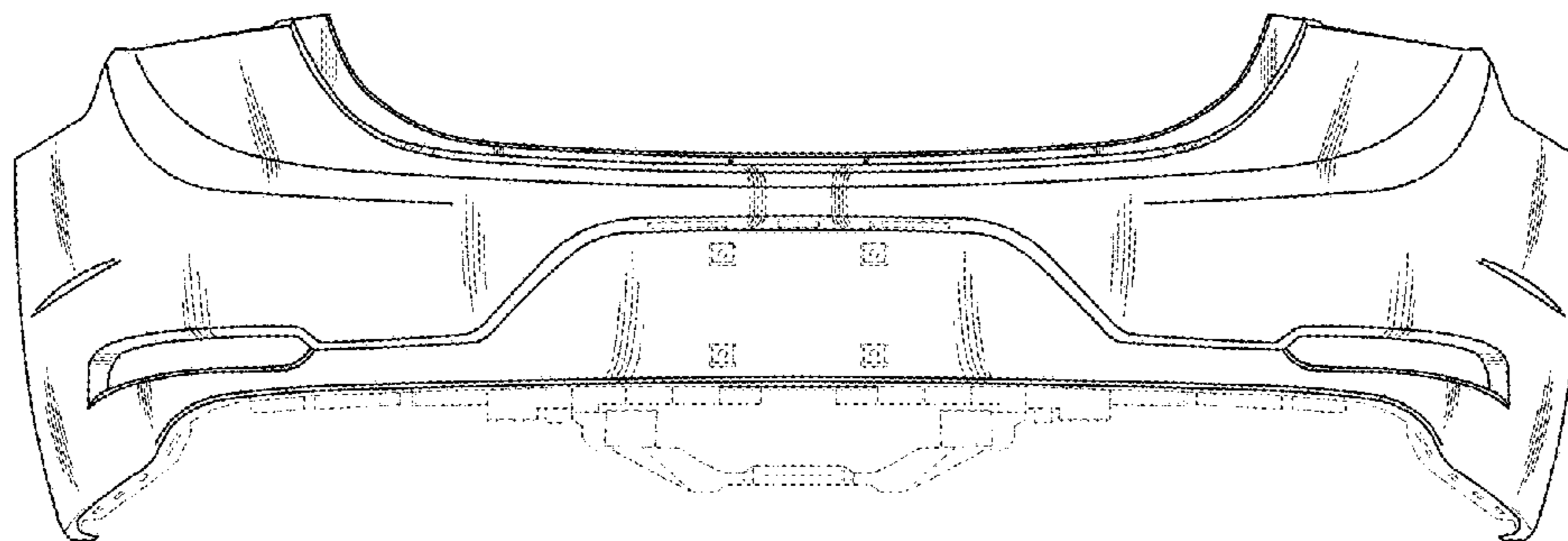
The ornamental design for a vehicle rear bumper, as shown and described.

DESCRIPTION

FIG. 1 is a front and left side perspective view of a vehicle rear bumper showing our new design; FIG. 2 is a left side elevation view thereof, the right side being a mirror image of the left side shown; FIG. 3 is a front elevation view thereof; and, FIG. 4 is a top plan view thereof. The broken lines shown in the drawings depict portions of the vehicle rear 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
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.



(56)

References Cited

U.S. PATENT DOCUMENTS

D680,909 S	4/2013	Munson et al.	D753,560 S	4/2016	McMahan et al.
D680,910 S	4/2013	David	D753,567 S	4/2016	Boniface et al.
D684,899 S	6/2013	Baker	D754,571 S	4/2016	Boniface et al.
D686,536 S	7/2013	McCabe et al.	D754,572 S	4/2016	McMahan et al.
D692,798 S	11/2013	Thurber	D755,088 S	5/2016	McMahan et al.
D692,799 S	11/2013	Smith et al.	D756,869 S	5/2016	McMahan et al.
D696,157 S	12/2013	Loeb	D758,271 S	6/2016	McMahan et al.
D699,629 S	2/2014	Ikeda et al.	D764,975 S	8/2016	Aengenheyster
D700,871 S	3/2014	O'Donnell et al.	D764,976 S	8/2016	Aengenheyster
D703,103 S	4/2014	Lee	D764,984 S	* 8/2016	Stopka D12/169
D704,103 S	5/2014	Mack et al.	D767,449 S	9/2016	Pevovar et al.
D705,132 S	5/2014	Ware et al.	D767,450 S	9/2016	Lee et al.
D705,699 S	5/2014	Ware et al.	D767,451 S	9/2016	Kozub et al.
D713,298 S	9/2014	Dyson	D767,454 S	9/2016	McMahan et al.
D713,764 S	9/2014	Ferlazzo et al.	D767,458 S	9/2016	Kim
D716,696 S	11/2014	Thole et al.	D767,459 S	9/2016	Kim
D716,706 S	11/2014	Thole et al.	D767,460 S	9/2016	Kozub et al.
D716,709 S	11/2014	Thole et al.	D767,461 S	9/2016	Kozub et al.
D717,696 S	11/2014	Thole et al.	D770,949 S	* 11/2016	Morikawa D12/169
D718,189 S	11/2014	Krieg et al.	D771,528 S	11/2016	Smith et al.
D718,683 S	12/2014	Thole et al.	D771,529 S	11/2016	Thole et al.
D722,282 S	2/2015	Loeb	D771,532 S	11/2016	Kapitonov
D722,533 S	2/2015	Thole et al.	D771,533 S	11/2016	Kapitonov
D722,534 S	2/2015	Munson et al.	D772,766 S	11/2016	Kozub et al.
D724,510 S	3/2015	McMahan et al.	D772,767 S	11/2016	Kim
D725,001 S	3/2015	McMahan et al.	D773,084 S	11/2016	Kapitonov
D726,591 S	4/2015	Jacob	D773,086 S	11/2016	McCabe et al.
D730,776 S	6/2015	Smart	D773,355 S	* 12/2016	Kawaguchi D12/169
D730,783 S	6/2015	Henriques et al.	D774,226 S	12/2016	McCabe et al.
D732,427 S	6/2015	Loeb	D775,003 S	12/2016	Pevovar et al.
D732,429 S	6/2015	Loeb	D775,007 S	12/2016	Thole et al.
D732,430 S	6/2015	Loeb	D775,010 S	12/2016	Kim et al.
D732,431 S	6/2015	Loeb	D775,049 S	12/2016	Scheer et al.
D732,432 S	6/2015	Aengenheyster	D775,549 S	1/2017	Karras
D732,433 S	6/2015	Aengenheyster	D775,554 S	1/2017	Kapitonov
D732,435 S	6/2015	Mackay	D776,020 S	1/2017	Kapitonov
D733,002 S	6/2015	Loeb	D776,581 S	1/2017	Pevovar et al.
D735,611 S	8/2015	Aengenheyster	D776,583 S	1/2017	Scheer et al.
D735,627 S	8/2015	Smith	D776,841 S	1/2017	Kozub et al.
D736,451 S	8/2015	Smith	D776,843 S	1/2017	McCabe et al.
D739,306 S	9/2015	McMahan et al.	D776,846 S	1/2017	Willett et al.
D739,317 S	9/2015	McMahan et al.	D777,359 S	1/2017	Kozub et al.
D741,223 S	10/2015	Kim et al.	D777,360 S	1/2017	Kozub et al.
D743,309 S	11/2015	Thole et al.	D777,361 S	1/2017	Kozub et al.
D743,313 S	11/2015	Smith et al.	D777,604 S	1/2017	McNerney
D743,314 S	11/2015	Thole et al.	D777,605 S	1/2017	Ferlazzo et al.
D743,857 S	11/2015	McMahan et al.	D777,620 S	1/2017	Pevovar et al.
D744,158 S	11/2015	Willett et al.	D777,621 S	1/2017	Kim
D745,086 S	12/2015	Finos et al.	D777,622 S	1/2017	Kozub et al.
D745,719 S	12/2015	Boniface et al.	D777,628 S	1/2017	Kozub et al.
D745,725 S	12/2015	McMahan et al.	D777,955 S	1/2017	Willett et al.
D745,726 S	12/2015	McMahan et al.	D778,212 S	2/2017	Kozub et al.
D745,837 S	12/2015	Smith et al.	D778,215 S	2/2017	Kozub et al.
D746,726 S	1/2016	Smith et al.	D780,064 S	2/2017	Smith et al.
D746,727 S	1/2016	Smith et al.	D780,067 S	2/2017	Zipfel et al.
D746,728 S	1/2016	Smith et al.	D780,068 S	2/2017	Whitla et al.
D746,729 S	1/2016	Boniface et al.	D780,077 S	2/2017	Kim et al.
D746,730 S	1/2016	Kim et al.	D780,081 S	2/2017	Lee
D747,514 S	1/2016	McMahan et al.	D780,084 S	2/2017	Scheer et al.
D747,515 S	1/2016	McMahan et al.	D780,631 S	3/2017	Kozub et al.
D747,819 S	1/2016	Thole et al.	D780,644 S	3/2017	Kim et al.
D749,021 S	2/2016	Boniface et al.	D781,184 S	3/2017	Thole et al.
D749,026 S	2/2016	Smith et al.	D781,192 S	3/2017	Kozub et al.
D749,027 S	2/2016	McMahan et al.	D782,379 S	3/2017	Wassell
D749,246 S	2/2016	Thole et al.	D783,482 S	4/2017	Smith et al.
D749,249 S	2/2016	Thole et al.	D784,213 S	4/2017	Karras
D749,250 S	2/2016	Thole et al.	D784,223 S	4/2017	Lee
D749,985 S	2/2016	Kozub et al.	D784,226 S	4/2017	Cheng
D749,997 S	2/2016	McMahan et al.	D784,579 S	4/2017	Cheng et al.
D750,001 S	2/2016	Thole et al.	D784,877 S	4/2017	Lee
D753,032 S	4/2016	Smith et al.	D784,886 S	4/2017	Smith et al.
D753,033 S	4/2016	Thole et al.	D785,521 S	5/2017	Smith et al.
D753,034 S	4/2016	Thole et al.	D786,149 S	5/2017	Pevovar et al.
D753,035 S	4/2016	Boniface et al.	D786,743 S	5/2017	Smith et al.
D753,559 S	4/2016	McMahan 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.

(56)

References Cited

U.S. PATENT DOCUMENTS

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	
D789,575 S	6/2017	Willett	
D789,841 S	6/2017	Lee	
D789,849 S *	6/2017	Lee	D12/169
D800,030 S *	10/2017	Jung	D12/169
D804,371 S *	12/2017	Whitla	D12/169
D813,110 S *	3/2018	Whitla	D12/169
D813,753 S *	3/2018	Loeb	D12/169
D816,565 S *	5/2018	Kim	D12/169
D819,525 S *	6/2018	Behmer	D12/169
D823,194 S *	7/2018	Gueler	D12/169
D824,300 S *	7/2018	Badstuebner	D12/169
D824,817 S *	8/2018	Morikawa	D12/169
D824,818 S *	8/2018	Morikawa	D12/169
D826,113 S *	8/2018	Kanai	D12/169
D827,519 S *	9/2018	Komuro	D12/169

* cited by examiner

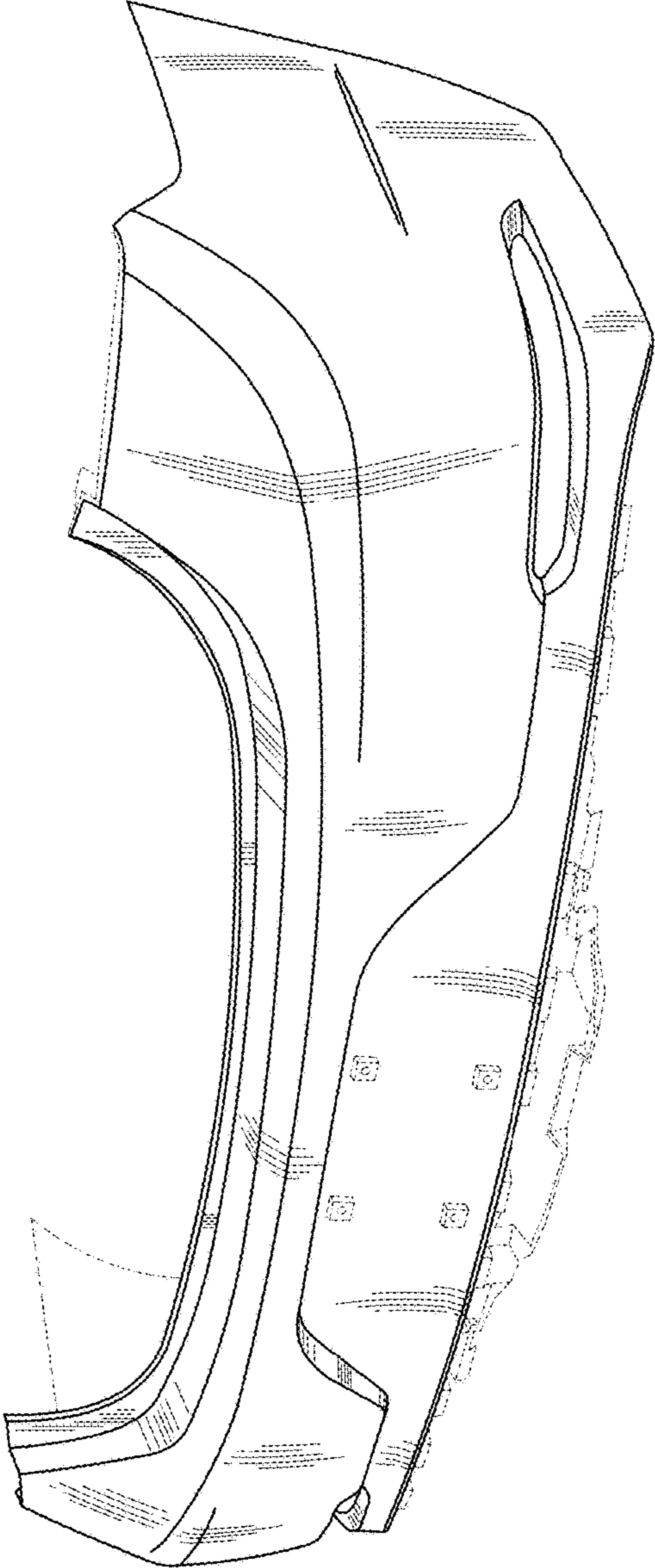


FIG-1

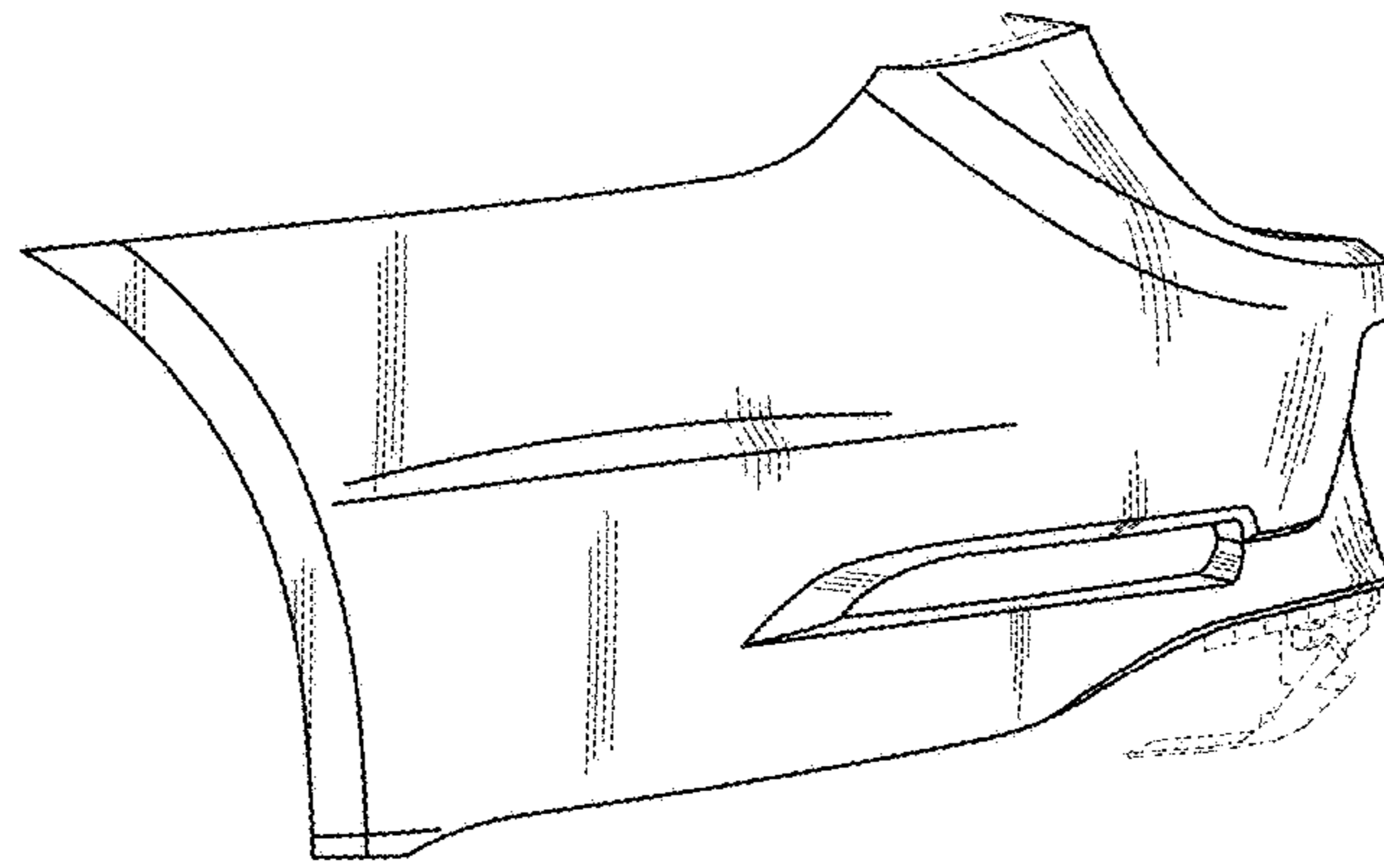


FIG - 2

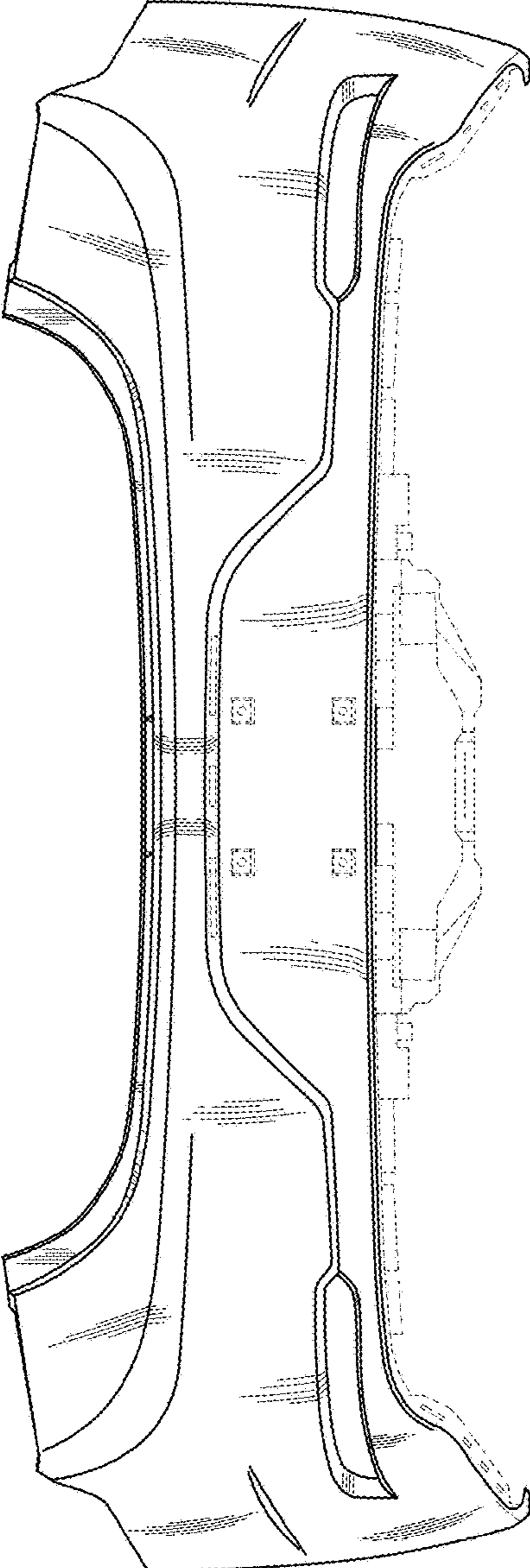


FIG - 3

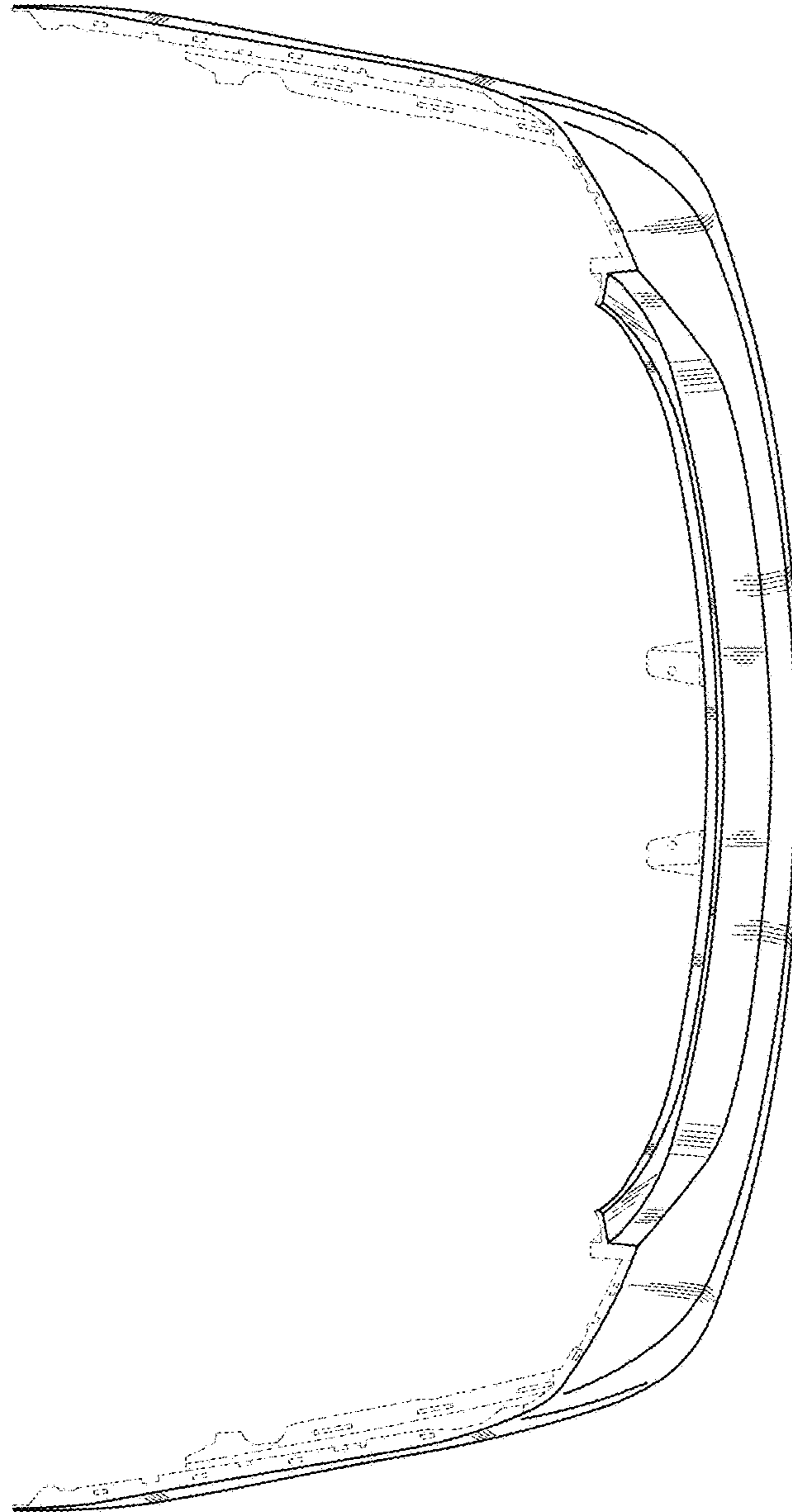


FIG - 4