



US00D876989S

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

(10) **Patent No.:** **US D876,989 S**  
(45) **Date of Patent:** **\*\* Mar. 3, 2020**

(54) **VEHICLE, TOY REPLICA, AND/OR OTHER REPLICA**

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

(72) Inventor: **Panayiotis J. Karras**, Rochester, MI (US)

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

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

(21) Appl. No.: **29/674,310**

(22) Filed: **Dec. 20, 2018**

(51) **LOC (12) Cl.** ..... **12-08**

(52) **U.S. Cl.**  
USPC ..... **D12/91**

(58) **Field of Classification Search**  
USPC ..... D12/86, 90-92; D21/424, 433, 434;  
296/181.1-181.5, 183.1  
CPC ..... B62D 25/00; B62D 25/06; B62D 33/00;  
B62D 35/00  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

|            |   |         |                      |       |        |
|------------|---|---------|----------------------|-------|--------|
| D570,249 S | * | 6/2008  | O'Donnell            | ..... | D12/91 |
| 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 | Franco et al.   |

(Continued)

Primary Examiner — Melody N Brown

(57) **CLAIM**

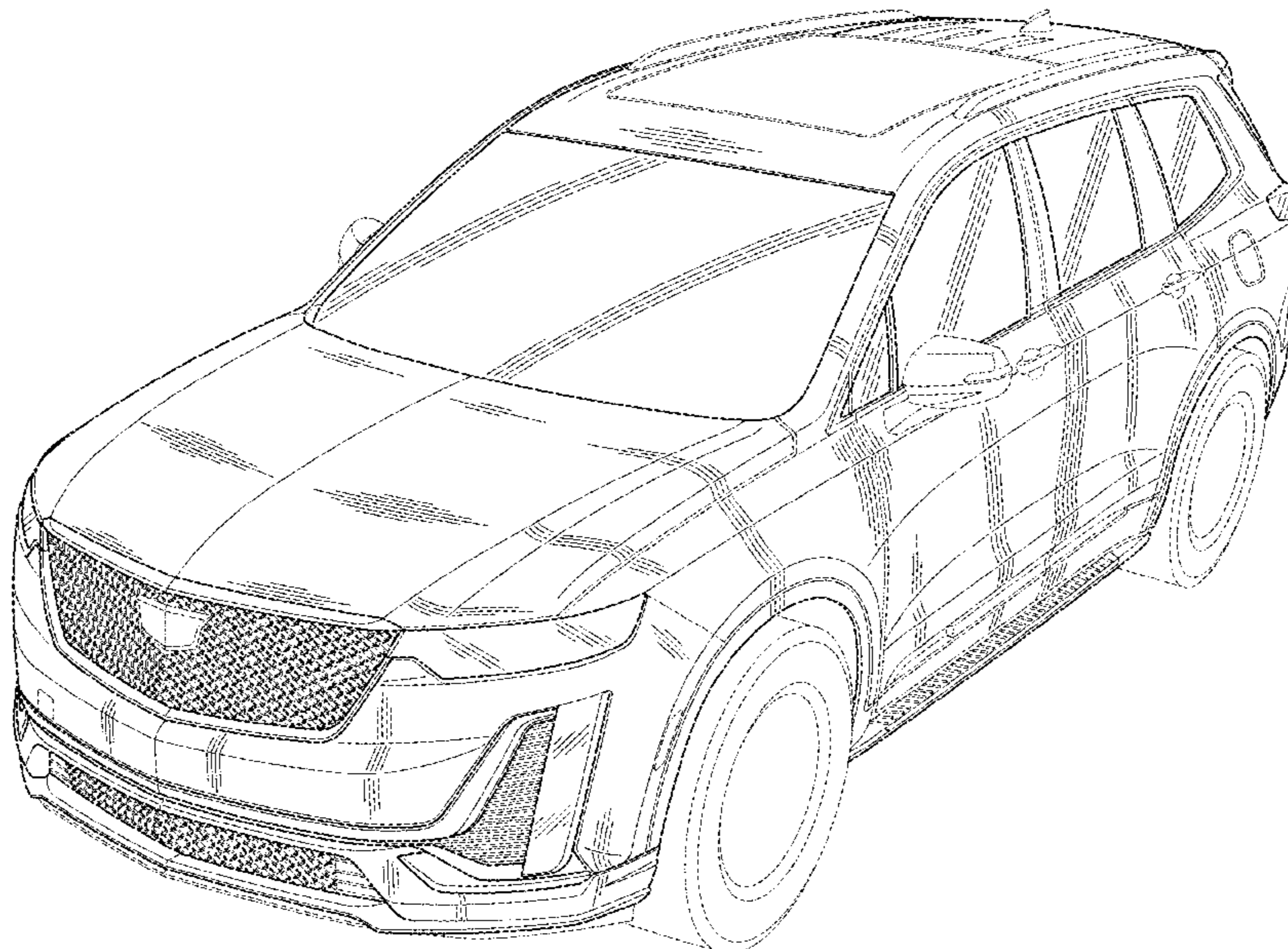
The ornamental design for a vehicle, toy replica, and/or other replica, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevation view of a vehicle, toy replica and/or other replica showing our new design;  
FIG. 2 is a top, front and left side perspective view thereof;  
FIG. 3 is a left side elevation view thereof;  
FIG. 4 is a right side elevation view thereof;  
FIG. 5 is a top plan view thereof;  
FIG. 6 is a top, rear and left side perspective view thereof;  
and,  
FIG. 7 is a rear view thereof.

The portions of the vehicle shown in broken lines are for environmental and illustrative purposes and form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



(56)

## References Cited

## U.S. PATENT DOCUMENTS

|            |         |                  |            |         |                 |
|------------|---------|------------------|------------|---------|-----------------|
| D668,183 S | 10/2012 | Smart            | D753,034 S | 4/2016  | Thole et al.    |
| D678,820 S | 3/2013  | Song et al.      | D753,035 S | 4/2016  | Boniface et al. |
| D678,821 S | 3/2013  | Ikeda et al.     | D753,559 S | 4/2016  | McMahan et al.  |
| 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              | D767,449 S | 9/2016  | Pevovar et al.  |
| D704,103 S | 5/2014  | Mack et al.      | D767,450 S | 9/2016  | Lee et al.      |
| D705,132 S | 5/2014  | Ware et al.      | D767,451 S | 9/2016  | Kozub et al.    |
| D705,699 S | 5/2014  | Ware et al.      | D767,454 S | 9/2016  | McMahan et al.  |
| D713,298 S | 9/2014  | Dyson            | D767,458 S | 9/2016  | Kim             |
| D713,764 S | 9/2014  | Ferlazzo et al.  | D767,459 S | 9/2016  | Kim             |
| D716,696 S | 11/2014 | Thole et al.     | D767,460 S | 9/2016  | Kozub et al.    |
| D716,706 S | 11/2014 | Thole et al.     | D767,461 S | 9/2016  | Kozub et al.    |
| D716,709 S | 11/2014 | Thole et al.     | D771,528 S | 11/2016 | Smith et al.    |
| D717,696 S | 11/2014 | Thole et al.     | D771,529 S | 11/2016 | Thole et al.    |
| D718,189 S | 11/2014 | Krieg et al.     | D771,532 S | 11/2016 | Kapitonov       |
| D718,683 S | 12/2014 | Thole et al.     | D771,533 S | 11/2016 | Kapitonov       |
| D722,282 S | 2/2015  | Loeb             | D772,766 S | 11/2016 | Kozub et al.    |
| D722,533 S | 2/2015  | Thole et al.     | D772,767 S | 11/2016 | Kim             |
| D722,534 S | 2/2015  | Munson et al.    | D773,084 S | 11/2016 | Kapitonov       |
| D724,510 S | 3/2015  | McMahan et al.   | D773,086 S | 11/2016 | McCabe et al.   |
| D725,001 S | 3/2015  | McMahan et al.   | D774,226 S | 12/2016 | McCabe et al.   |
| D726,591 S | 4/2015  | Jacob            | D775,003 S | 12/2016 | Pevovar et al.  |
| D730,776 S | 6/2015  | Smart            | D775,007 S | 12/2016 | Thole et al.    |
| D730,783 S | 6/2015  | Henriques et al. | D775,010 S | 12/2016 | Kim et al.      |
| D732,427 S | 6/2015  | Loeb             | D775,049 S | 12/2016 | Scheer et al.   |
| D732,429 S | 6/2015  | Loeb             | D775,549 S | 1/2017  | Karras          |
| D732,430 S | 6/2015  | Loeb             | D775,554 S | 1/2017  | Kapitonov       |
| D732,431 S | 6/2015  | Loeb             | D776,020 S | 1/2017  | Kapitonov       |
| D732,432 S | 6/2015  | Aengenheyster    | D776,581 S | 1/2017  | Pevovar et al.  |
| D732,433 S | 6/2015  | Aengenheyster    | D776,583 S | 1/2017  | Scheer et al.   |
| D732,435 S | 6/2015  | Mackay           | D776,841 S | 1/2017  | Kozub et al.    |
| D733,002 S | 6/2015  | Loeb             | D776,843 S | 1/2017  | McCabe et al.   |
| D735,611 S | 8/2015  | Aengenheyster    | D776,846 S | 1/2017  | Willett et al.  |
| D735,627 S | 8/2015  | Smith            | D777,359 S | 1/2017  | Kozub et al.    |
| D736,451 S | 8/2015  | Smith            | D777,360 S | 1/2017  | Kozub et al.    |
| D739,306 S | 9/2015  | McMahan          | D777,361 S | 1/2017  | Kozub et al.    |
| D739,317 S | 9/2015  | McMahan et al.   | D777,604 S | 1/2017  | McNerney        |
| D741,223 S | 10/2015 | Kim et al.       | D777,605 S | 1/2017  | Ferlazzo et al. |
| D743,309 S | 11/2015 | Thole et al.     | D777,620 S | 1/2017  | Pevovar et al.  |
| D743,313 S | 11/2015 | Smith et al.     | D777,621 S | 1/2017  | Kim             |
| D743,314 S | 11/2015 | Thole et al.     | D777,622 S | 1/2017  | Kozub et al.    |
| D743,857 S | 11/2015 | McMahan et al.   | D777,628 S | 1/2017  | Kozub et al.    |
| D744,158 S | 11/2015 | Willett et al.   | D777,955 S | 1/2017  | Willett et al.  |
| D745,086 S | 12/2015 | Finos et al.     | D778,212 S | 2/2017  | Kozub et al.    |
| D745,719 S | 12/2015 | Boniface et al.  | D778,215 S | 2/2017  | Kozub et al.    |
| D745,725 S | 12/2015 | McMahan et al.   | D780,064 S | 2/2017  | Smith et al.    |
| D745,726 S | 12/2015 | McMahan et al.   | D780,067 S | 2/2017  | Zipfel et al.   |
| D745,837 S | 12/2015 | Smith et al.     | D780,068 S | 2/2017  | Whitla et al.   |
| D746,726 S | 1/2016  | Smith et al.     | D780,077 S | 2/2017  | Kim et al.      |
| D746,727 S | 1/2016  | Smith et al.     | D780,081 S | 2/2017  | Lee             |
| D746,728 S | 1/2016  | Smith et al.     | D780,084 S | 2/2017  | Scheer et al.   |
| D746,729 S | 1/2016  | Boniface et al.  | D780,631 S | 3/2017  | Kozub et al.    |
| D746,730 S | 1/2016  | Kim et al.       | D780,644 S | 3/2017  | Kim et al.      |
| D747,514 S | 1/2016  | McMahan et al.   | D781,184 S | 3/2017  | Thole et al.    |
| D747,515 S | 1/2016  | McMahan et al.   | D781,192 S | 3/2017  | Kozub et al.    |
| D747,819 S | 1/2016  | Thole et al.     | D782,379 S | 3/2017  | Wassell         |
| D749,021 S | 2/2016  | Boniface et al.  | D783,482 S | 4/2017  | Smith et al.    |
| D749,026 S | 2/2016  | Smith et al.     | D784,213 S | 4/2017  | Karras          |
| D749,027 S | 2/2016  | McMahan et al.   | D784,223 S | 4/2017  | Lee             |
| D749,246 S | 2/2016  | Thole et al.     | D784,226 S | 4/2017  | Cheng           |
| D749,249 S | 2/2016  | Thole et al.     | D784,579 S | 4/2017  | Cheng et al.    |
| D749,250 S | 2/2016  | Thole et al.     | D784,877 S | 4/2017  | Lee             |
| D749,985 S | 2/2016  | Kozub et al.     | D784,886 S | 4/2017  | Smith et al.    |
| D749,997 S | 2/2016  | McMahan et al.   | D785,521 S | 5/2017  | Smith et al.    |
| D750,001 S | 2/2016  | Thole et al.     | D786,149 S | 5/2017  | Pevovar et al.  |
| D753,032 S | 4/2016  | Smith et al.     | D786,743 S | 5/2017  | Smith et al.    |
| D753,033 S | 4/2016  | Thole 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.   | D804,370 S | 12/2017 | Kozub et al.    |
| D787,992 S | 5/2017  | Lee            | D804,371 S | 12/2017 | Whitla et al.   |
| D787,993 S | 5/2017  | McCabe et al.  | D804,372 S | 12/2017 | Kozub           |
| D788,001 S | 5/2017  | Lee            | D804,378 S | 12/2017 | Perkins         |
| D788,641 S | 6/2017  | Arnold         | D804,379 S | 12/2017 | McMahan         |
| D788,644 S | 6/2017  | Mueller        | D805,006 S | 12/2017 | Nakamura        |
| D788,645 S | 6/2017  | Mueller        | D805,013 S | 12/2017 | Whitla          |
| D789,250 S | 6/2017  | Arnold         | D805,014 S | 12/2017 | Zipfel          |
| D789,260 S | 6/2017  | Smith          | D805,441 S | 12/2017 | Karras          |
| D789,575 S | 6/2017  | Willett        | D805,964 S | 12/2017 | Whitla          |
| D789,841 S | 6/2017  | Malczewski     | D805,965 S | 12/2017 | Davis           |
| D789,849 S | 6/2017  | Lee            | D805,966 S | 12/2017 | Perkins         |
| D791,018 S | 7/2017  | Mylenek        | D805,985 S | 12/2017 | Nakamura        |
| D791,644 S | 7/2017  | Fang           | D807,232 S | 1/2018  | Bailie          |
| D792,290 S | 7/2017  | Smith et al.   | D807,239 S | 1/2018  | Perkins         |
| D792,293 S | 7/2017  | McCabe et al.  | D807,240 S | 1/2018  | Perkins         |
| D792,294 S | 7/2017  | McCabe et al.  | D807,241 S | 1/2018  | Perkins         |
| D792,295 S | 7/2017  | McCabe et al.  | D809,442 S | 2/2018  | Zipfel et al.   |
| D792,815 S | 7/2017  | Kozub          | D811,269 S | 2/2018  | Thompson et al. |
| D792,816 S | 7/2017  | Kozub          | D811,942 S | 3/2018  | Jacob           |
| D793,290 S | 8/2017  | Kozub          | D811,957 S | 3/2018  | Whitla et al.   |
| D793,292 S | 8/2017  | Lee            | D811,958 S | 3/2018  | Zipfel et al.   |
| D793,293 S | 8/2017  | Lee et al.     | D811,959 S | 3/2018  | Perkins         |
| D793,294 S | 8/2017  | Lee            | D811,960 S | 3/2018  | Nakamura        |
| D793,295 S | 8/2017  | McCabe et al.  | D811,961 S | 3/2018  | Sullivan        |
| D793,296 S | 8/2017  | Smith et al.   | D811,962 S | 3/2018  | Sullivan        |
| D793,297 S | 8/2017  | Smith et al.   | D811,963 S | 3/2018  | Sullivan        |
| D793,299 S | 8/2017  | Kreig et al.   | D811,964 S | 3/2018  | Perkins         |
| D793,300 S | 8/2017  | Kreig et al.   | D811,965 S | 3/2018  | Moffett et al.  |
| D793,301 S | 8/2017  | Kozub          | D812,525 S | 3/2018  | Lee             |
| D793,302 S | 8/2017  | Kozub          | D812,526 S | 3/2018  | Zipfel et al.   |
| D793,311 S | 8/2017  | Whitla et al.  | D812,527 S | 3/2018  | Perkins         |
| D793,590 S | 8/2017  | Kozub et al.   | D812,528 S | 3/2018  | Nakamura        |
| D793,591 S | 8/2017  | Kozub et al.   | D813,098 S | 3/2018  | Thompson et al. |
| D793,917 S | 8/2017  | Kozub          | D813,109 S | 3/2018  | Zipfel et al.   |
| D793,918 S | 8/2017  | Kozub          | D813,110 S | 3/2018  | Whitla et al.   |
| D794,229 S | 8/2017  | Barry          | D813,111 S | 3/2018  | Sullivan        |
| D794,230 S | 8/2017  | Kozub          | D813,116 S | 3/2018  | Park            |
| D795,747 S | 8/2017  | Bailie         | D813,117 S | 3/2018  | Sullivan        |
| D795,757 S | 8/2017  | Pevovar et al. | D813,121 S | 3/2018  | Swanseger       |
| D795,758 S | 8/2017  | Karras         | D813,730 S | 3/2018  | Zipfel et al.   |
| D795,759 S | 8/2017  | Kozub et al.   | D813,731 S | 3/2018  | McMahan         |
| D795,760 S | 8/2017  | Kozub et al.   | D813,732 S | 3/2018  | Whitla et al.   |
| D795,762 S | 8/2017  | Lee            | D813,733 S | 3/2018  | Lee             |
| D795,763 S | 8/2017  | Kozub          | D813,734 S | 3/2018  | Nakamura        |
| D796,088 S | 8/2017  | McCabe et al.  | D813,740 S | 3/2018  | Park            |
| D796,093 S | 8/2017  | Mainville      | D813,741 S | 3/2018  | Perkins         |
| D796,390 S | 9/2017  | Pevovar et al. | D813,742 S | 3/2018  | McMahan et al.  |
| D797,537 S | 9/2017  | Cooper et al.  | D813,743 S | 3/2018  | Lee             |
| D797,603 S | 9/2017  | Noone et al.   | D813,744 S | 3/2018  | Whitla et al.   |
| D797,614 S | 9/2017  | Lee            | D813,748 S | 3/2018  | Kim             |
| D797,616 S | 9/2017  | Lee            | D813,753 S | 3/2018  | Loeb            |
| D797,624 S | 9/2017  | Nakamura       | D813,754 S | 3/2018  | Loeb            |
| D797,625 S | 9/2017  | Perkins        | D813,755 S | 3/2018  | Loeb            |
| D797,631 S | 9/2017  | Pevovar et al. | D813,756 S | 3/2018  | Loeb            |
| D797,632 S | 9/2017  | Zipfel et al.  | D813,757 S | 3/2018  | Kozub           |
| D797,967 S | 9/2017  | Barry          | D813,758 S | 3/2018  | Gonzales        |
| D797,970 S | 9/2017  | Mainville      | D813,759 S | 3/2018  | Perkins         |
| D797,971 S | 9/2017  | Mainville      | D814,369 S | 4/2018  | Loeb            |
| D797,972 S | 9/2017  | Whitla et al.  | D814,982 S | 4/2018  | Whitla et al.   |
| D798,204 S | 9/2017  | Mainville      | D814,983 S | 4/2018  | Whitla et al.   |
| D799,384 S | 10/2017 | Kozub et al.   | D815,570 S | 4/2018  | McMahan et al.  |
| D799,385 S | 10/2017 | Kozub et al.   | D815,572 S | 4/2018  | Perkins         |
| D799,386 S | 10/2017 | Kozub et al.   | D815,573 S | 4/2018  | Whitla et al.   |
| D799,728 S | 10/2017 | Whitla et al.  | D815,574 S | 4/2018  | Mainville       |
| D801,236 S | 10/2017 | Kozub et al.   | D815,985 S | 4/2018  | Mueller         |
| D801,577 S | 10/2017 | Ruiz           | D815,993 S | 4/2018  | Kozub et al.    |
| D801,882 S | 11/2017 | Kozub et al.   | D815,994 S | 4/2018  | Nakamura        |
| D802,205 S | 11/2017 | Ruiz           | D816,003 S | 4/2018  | Perkins         |
| D802,478 S | 11/2017 | Perkins        | D816,558 S | 5/2018  | McMahan et al.  |
| D802,491 S | 11/2017 | Mainville      | D816,559 S | 5/2018  | McMahan et al.  |
| D802,496 S | 11/2017 | Mainville      | D816,561 S | 5/2018  | McMahan         |
| D802,502 S | 11/2017 | McMahan        | D816,562 S | 5/2018  | Whitla et al.   |
| D803,727 S | 11/2017 | Noone et al.   | D816,563 S | 5/2018  | McMahan et al.  |
| D803,731 S | 11/2017 | Zipfel         | 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.      |

(56)

References Cited

U.S. PATENT DOCUMENTS

|              |        |                  |              |         |                      |
|--------------|--------|------------------|--------------|---------|----------------------|
| D818,157 S   | 5/2018 | Zipfel et al.    | D824,812 S   | 8/2018  | Loeb                 |
| D818,158 S   | 5/2018 | Zipfel et al.    | D824,824 S   | 8/2018  | Kim                  |
| D818,159 S   | 5/2018 | Zipfel et al.    | D824,825 S   | 8/2018  | Loeb                 |
| D818,160 S   | 5/2018 | Perkins          | D825,083 S   | 8/2018  | Perkins              |
| D818,406 S   | 5/2018 | McMahan et al.   | D825,388 S   | 8/2018  | Karras et al.        |
| D818,876 S   | 5/2018 | Whitla et al.    | D825,403 S   | 8/2018  | Whitla et al.        |
| D818,877 S   | 5/2018 | Nakamura et al.  | D826,114 S   | 8/2018  | Smith et al.         |
| D818,878 S   | 5/2018 | McMahan et al.   | D826,435 S   | 8/2018  | Kim                  |
| D818,892 S   | 5/2018 | Lee              | D826,803 S   | 8/2018  | Smith et al.         |
| D818,893 S   | 5/2018 | Kim              | D827,506 S   | 9/2018  | McMahan et al.       |
| D818,903 S   | 5/2018 | Zipfel et al.    | D827,508 S   | 9/2018  | Whitla et al.        |
| D818,906 S   | 5/2018 | McMahan          | D827,510 S   | 9/2018  | Kim                  |
| D818,907 S   | 5/2018 | Whitla et al.    | D827,527 S   | 9/2018  | Loeb                 |
| D818,915 S   | 5/2018 | Kozub et al.     | D828,246 S   | 9/2018  | Loeb                 |
| D818,922 S   | 5/2018 | Whitla et al.    | D828,261 S   | 9/2018  | Moffett et al.       |
| D819,505 S   | 6/2018 | McMahan et al.   | D828,935 S   | 9/2018  | Hochmuth             |
| D819,519 S   | 6/2018 | Whitla et al.    | D829,622 S   | 10/2018 | Jacob                |
| D821,617 S   | 6/2018 | Perkins          | D830,241 S   | 10/2018 | Kozub                |
| D821,923 S * | 7/2018 | Lee ..... D12/92 | D830,242 S   | 10/2018 | Zipfel               |
| D822,550 S   | 7/2018 | Wassell et al.   | D830,252 S   | 10/2018 | Swanseger            |
| D822,551 S   | 7/2018 | McMahan et al.   | D830,258 S   | 10/2018 | McMahan et al.       |
| D823,188 S   | 7/2018 | Loeb             | D830,261 S   | 10/2018 | Jacob                |
| D823,738 S   | 7/2018 | Kim              | D830,589 S   | 10/2018 | Henriques            |
| D823,741 S   | 7/2018 | Kim              | D832,752 S   | 11/2018 | Lee                  |
| D823,762 S   | 7/2018 | Loeb             | D835,003 S   | 12/2018 | Thompson et al.      |
| D823,763 S   | 7/2018 | Koo et al.       | D835,012 S   | 12/2018 | Smith et al.         |
| D824,811 S   | 8/2018 | Mainville        | D845,173 S * | 4/2019  | Moir ..... D12/91    |
|              |        |                  | D851,541 S * | 6/2019  | Pinazzo ..... D12/91 |
|              |        |                  | D863,104 S * | 10/2019 | Bennion ..... D12/88 |

\* cited by examiner

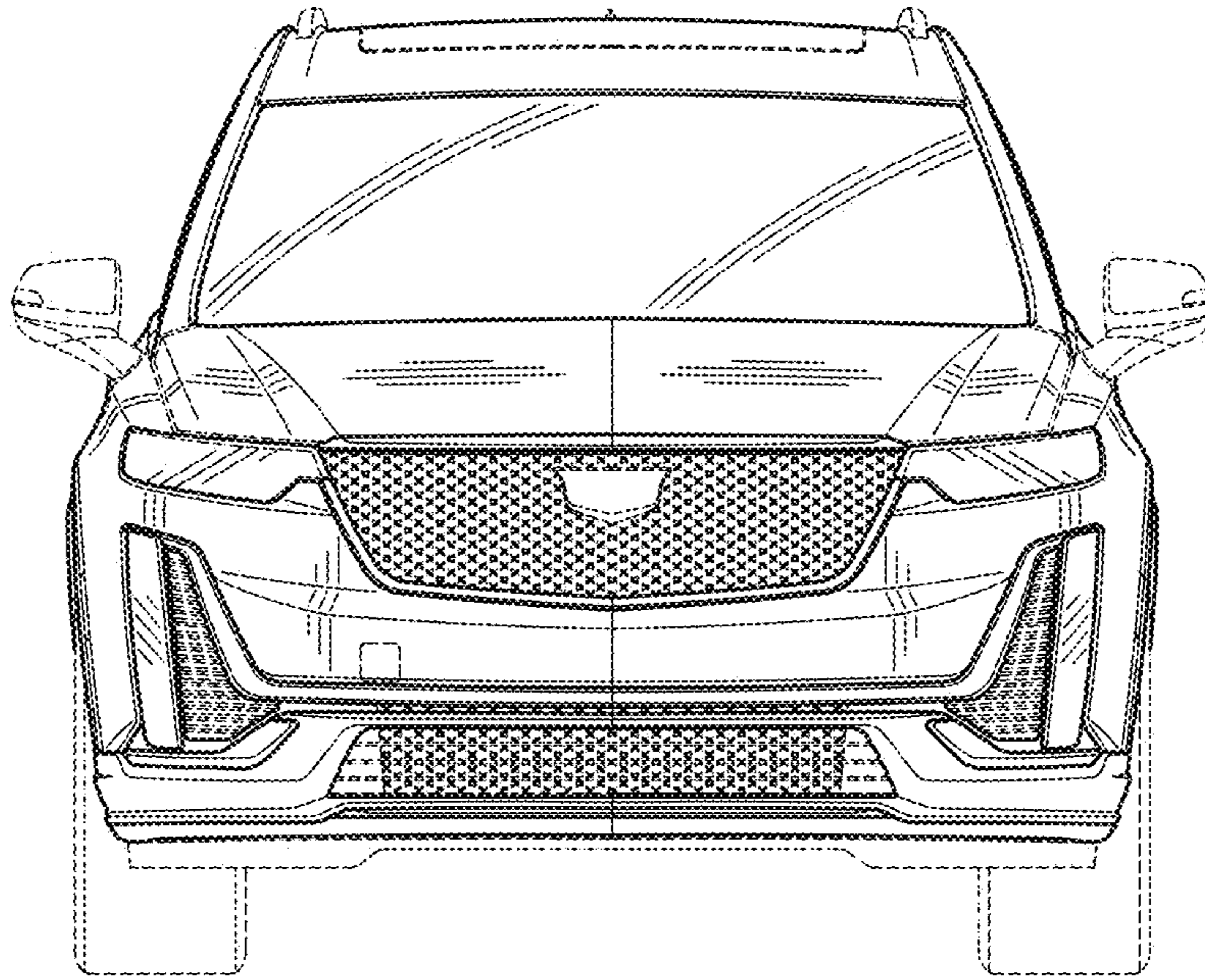


FIG. 1

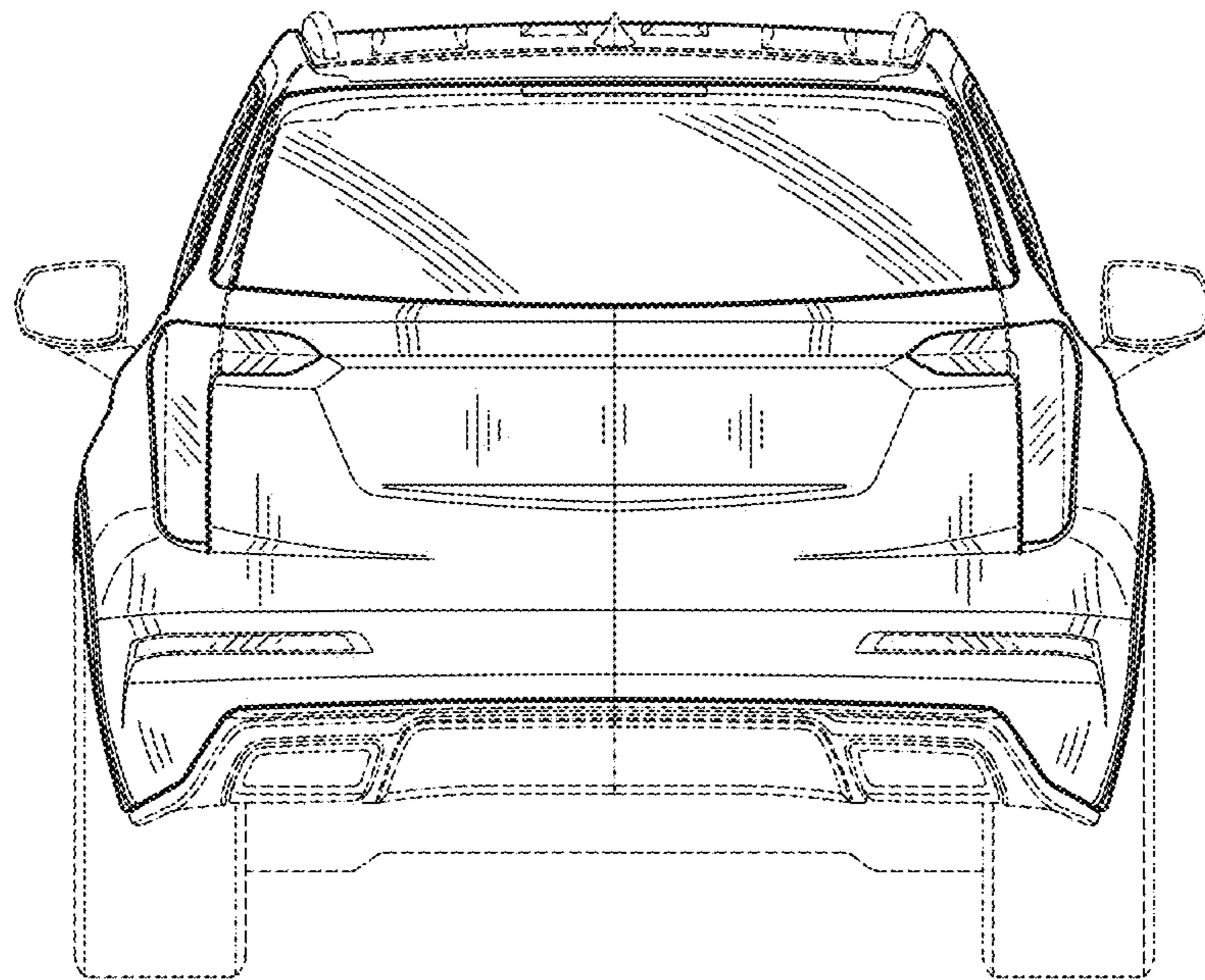


FIG. 7

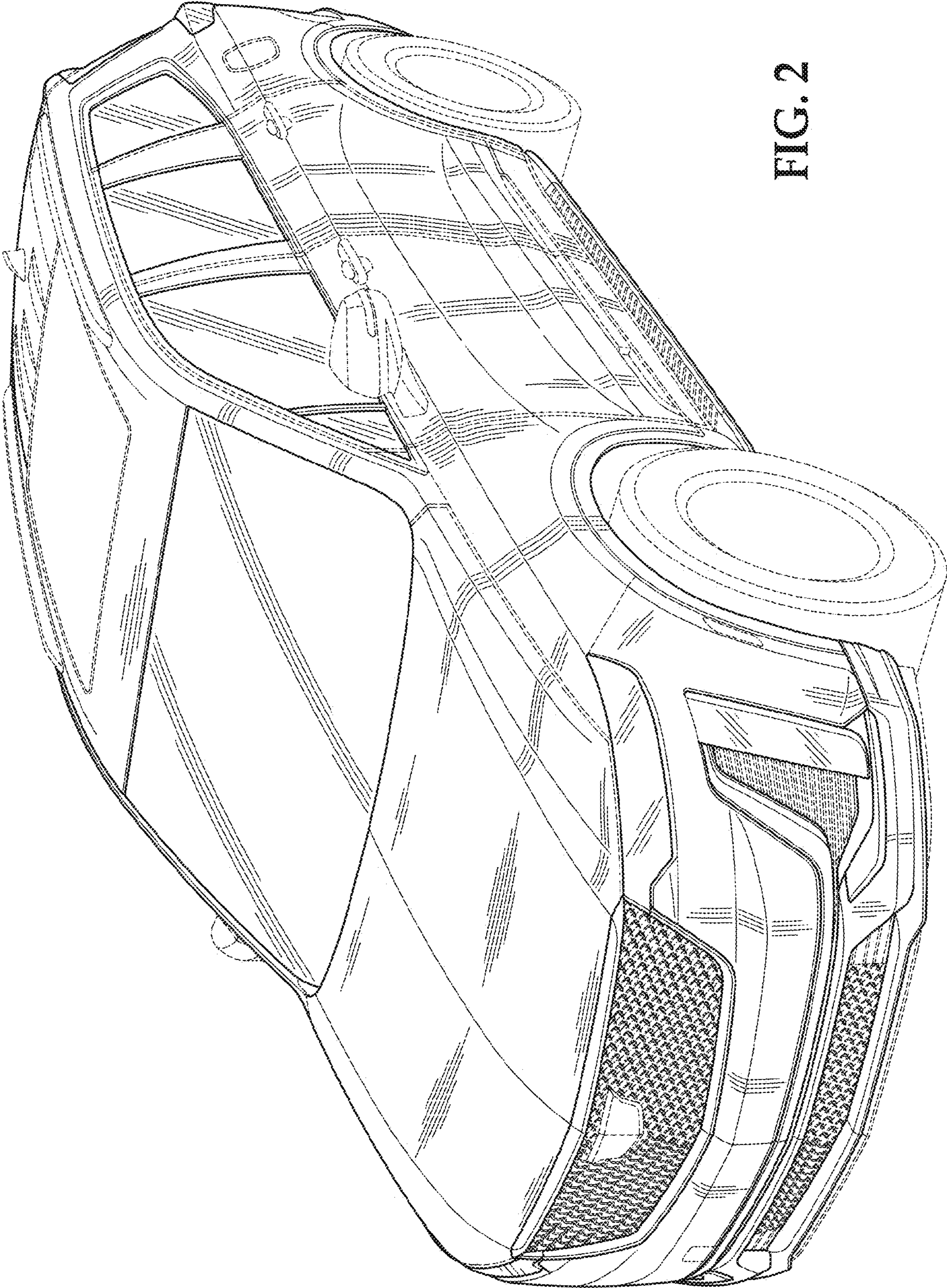


FIG. 2

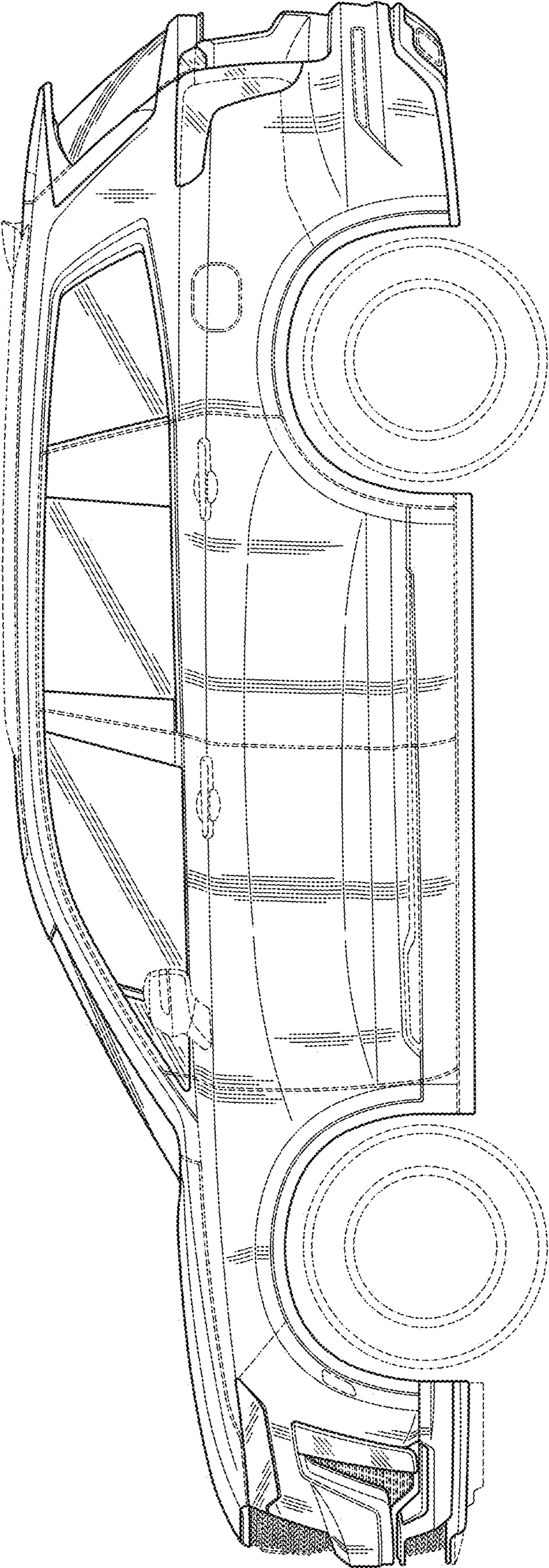


FIG. 3

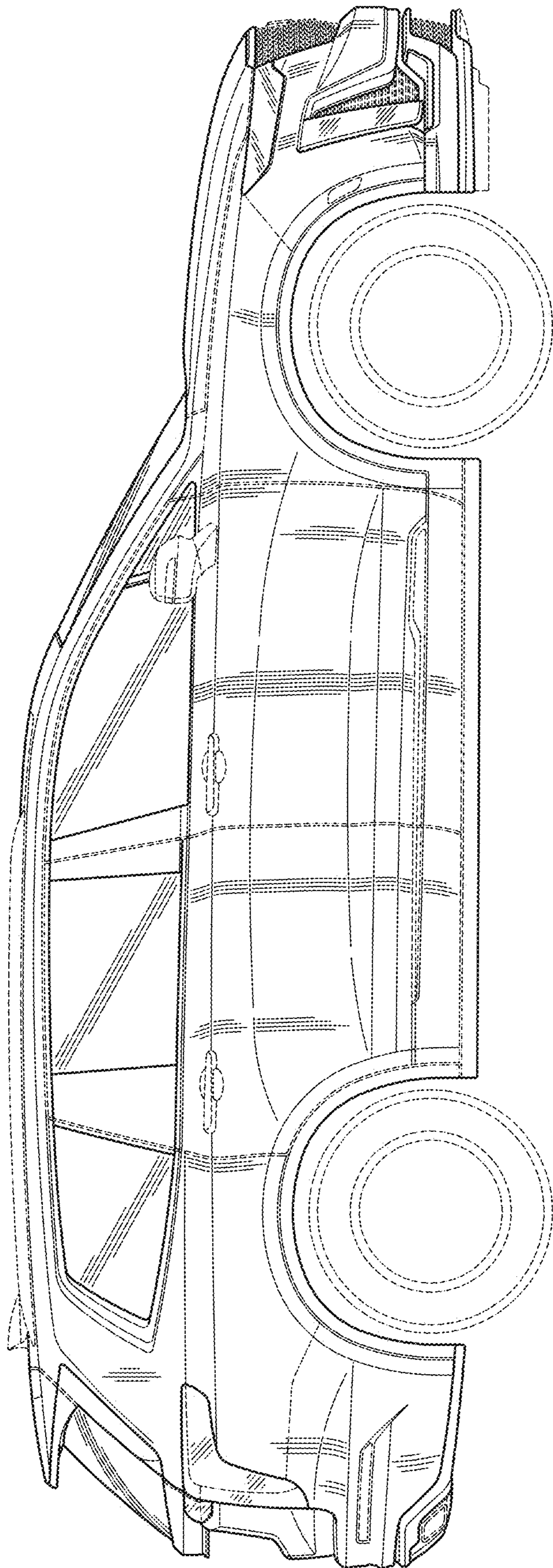


FIG. 4



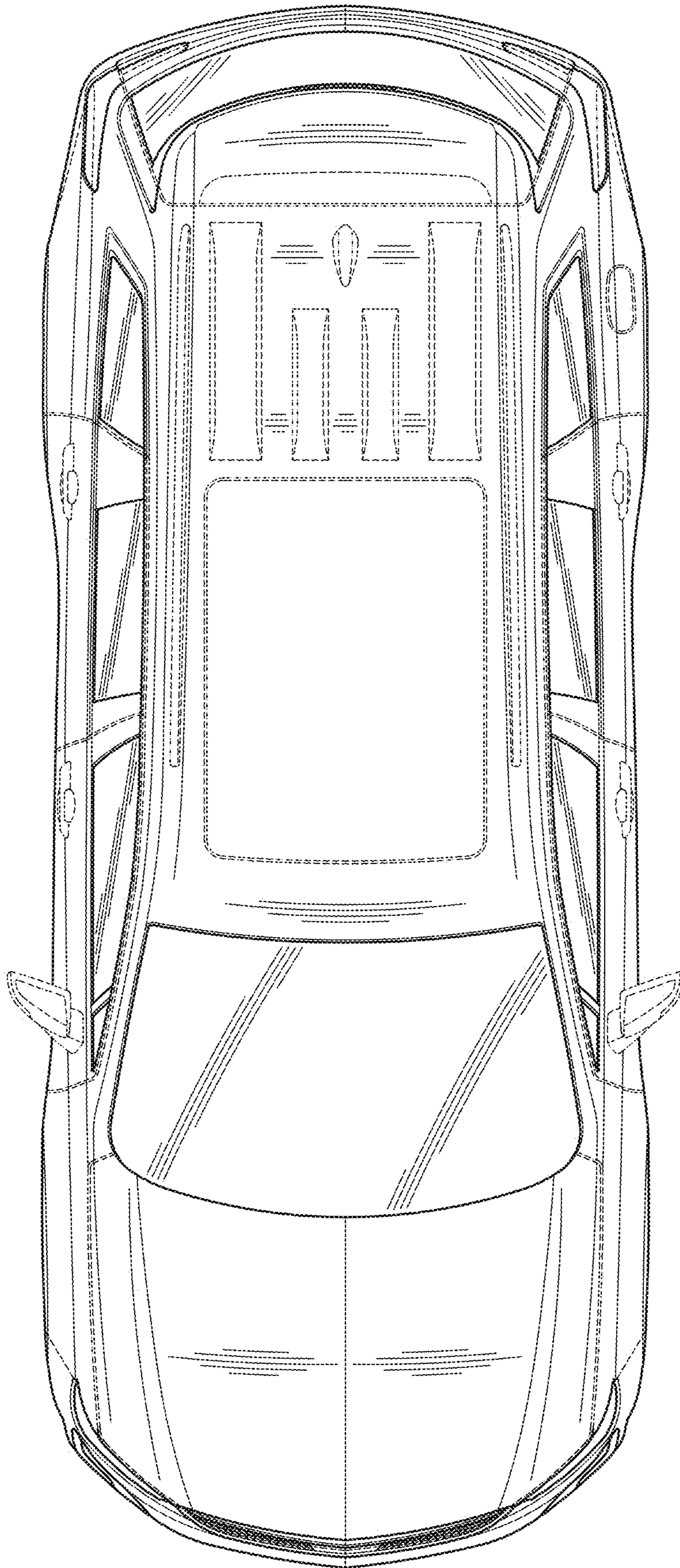


FIG. 5

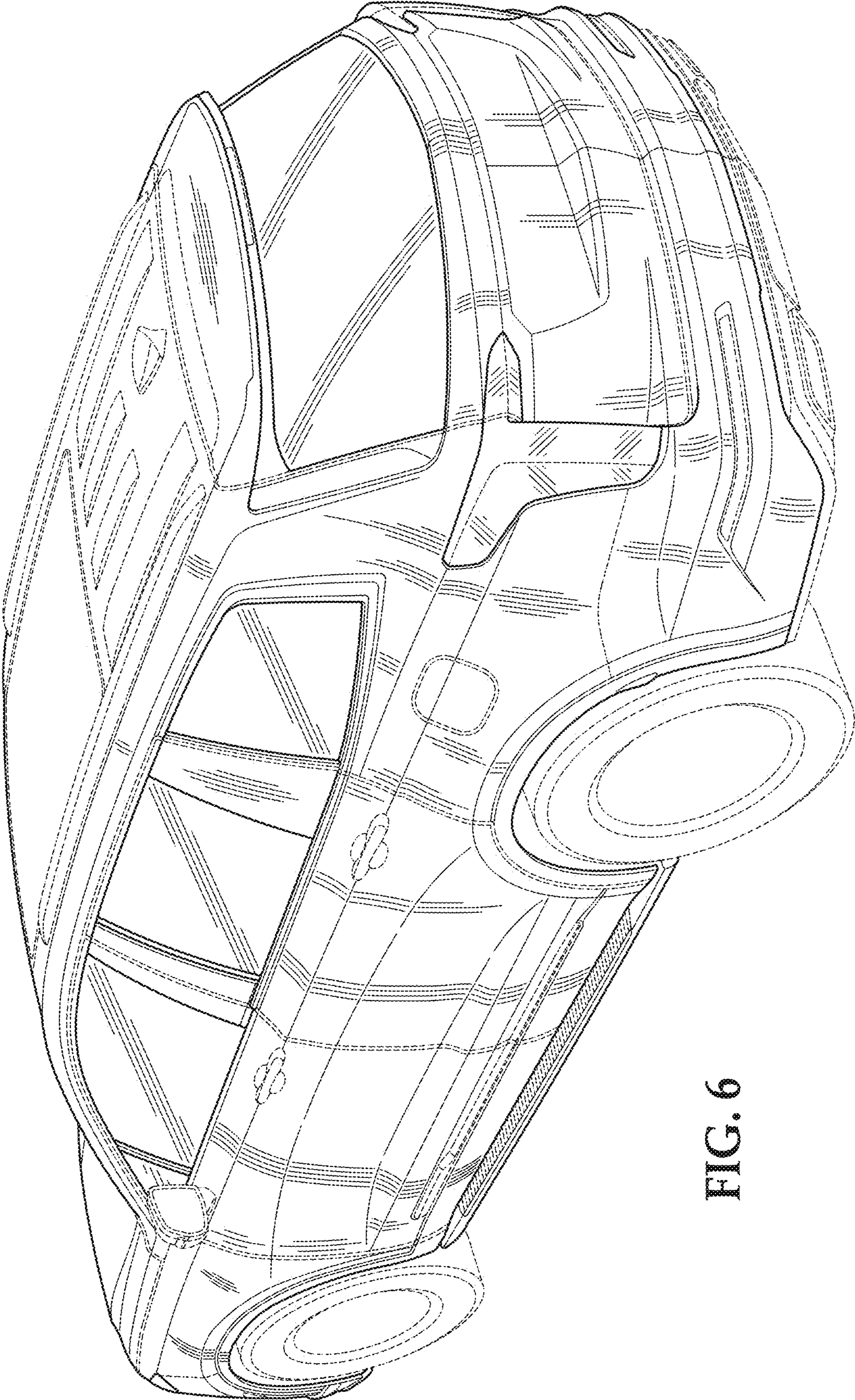


FIG. 6