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Park Cheng et al.

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- (54) **VEHICLE GRILLE**
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- (52) **U.S. Cl.**
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CPC B60R 19/52; B60R 2019/525; B60K 2011/085; B62D 25/084; H01Q 1/32
See application file for complete search history.

- 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.
- D619,054 S * 7/2010 Beigel D12/163
- 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.

(Continued)

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(57) **CLAIM**

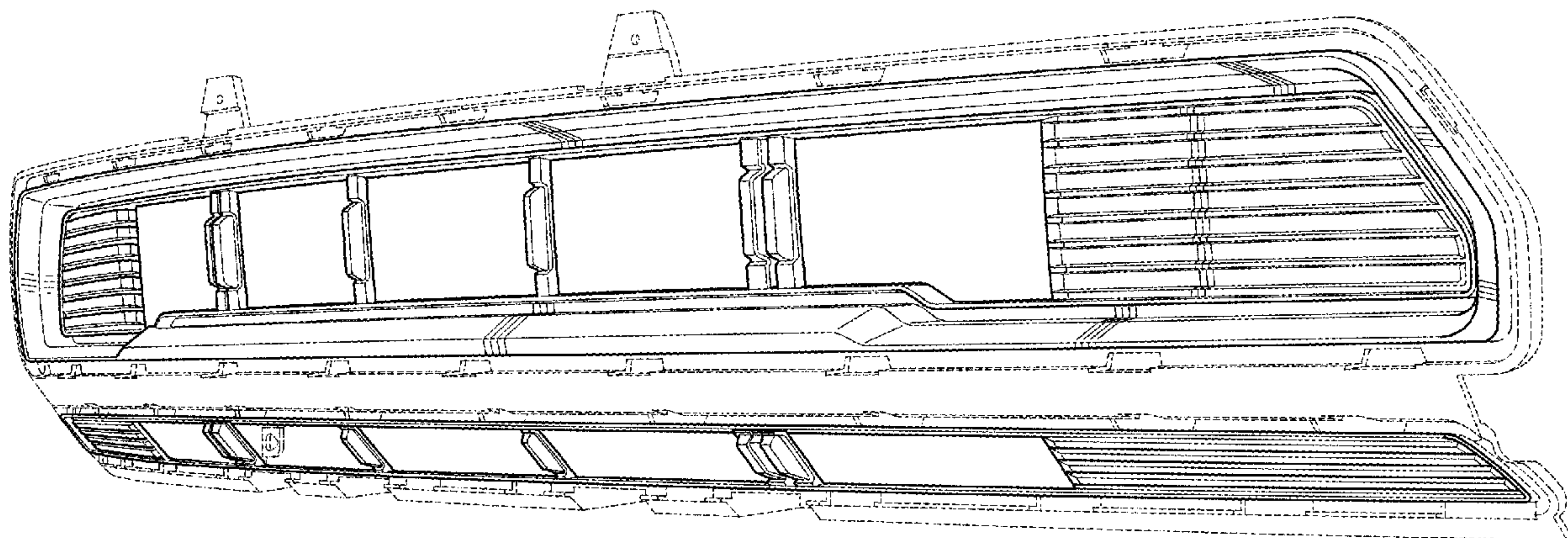
The ornamental design for a vehicle grille, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the vehicle grille;
FIG. 2 is a front view thereof;
FIG. 3 is a leftside view thereof (the rightside view being a mirror image of the leftside view);
FIG. 4 is a top view thereof; and,
FIG. 5 is a bottom view thereof.
The broken lines in the drawings illustrate portions of the vehicle grille that form no part of the claimed design.

1 Claim, 3 Drawing Sheets

- (56) **References Cited**
U.S. PATENT DOCUMENTS
- D274,234 S * 6/1984 Koyanagi D12/163
- D304,563 S * 11/1989 Ikeda D12/163
- D410,605 S * 6/1999 Bangle D12/169
- D410,877 S * 6/1999 Bangle D12/169
- 6,085,538 A * 7/2000 Bascaran F24F 13/082
62/248
- D570,742 S 6/2008 Takagi et al.
- D592,105 S 5/2009 Dean et al.



(56)

References Cited

U.S. PATENT DOCUMENTS

D644,567 S	9/2011	Kozub	D749,985 S	2/2016	Kozub et al.
D657,718 S	4/2012	Zipfel et al.	D749,997 S	2/2016	McMahan et al.
D659,052 S	5/2012	Ware et al.	D750,001 S	2/2016	Thole et al.
D659,053 S	5/2012	Ware et al.	D753,032 S	4/2016	Smith et al.
D668,182 S	10/2012	Barba Franco et al.	D753,033 S	4/2016	Thole et al.
D668,183 S	10/2012	Smart	D753,034 S	4/2016	Thole et al.
D678,820 S	3/2013	Son 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 et al.	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.	D777,614 S	* 1/2017	Wheel D12/163
D743,313 S	11/2015	Smith et al.	D777,620 S	1/2017	Pevovar et al.
D743,314 S	11/2015	Thole et al.	D777,621 S	1/2017	Kim
D743,857 S	11/2015	McMahan et al.	D777,622 S	1/2017	Kozub et al.
D744,158 S	11/2015	Willett et al.	D777,628 S	1/2017	Kozub et al.
D745,086 S	12/2015	Finos et al.	D777,955 S	1/2017	Willett et al.
D745,719 S	12/2015	Boniface et al.	D778,212 S	2/2017	Kozub et al.
D745,725 S	12/2015	McMahan et al.	D778,215 S	2/2017	Kozub et al.
D745,726 S	12/2015	McMahan et al.	D780,064 S	2/2017	Smith et al.
D745,837 S	12/2015	Smith et al.	D780,067 S	2/2017	Zipfel et al.
D746,726 S	1/2016	Smith et al.	D780,068 S	2/2017	Whitla et al.
D746,727 S	1/2016	Smith et al.	D780,077 S	2/2017	Kim et al.
D746,728 S	1/2016	Smith et al.	D780,081 S	2/2017	Lee
D746,729 S	1/2016	Boniface et al.	D780,084 S	2/2017	Scheer et al.
D746,730 S	1/2016	Kim et al.	D780,631 S	3/2017	Kozub et al.
D747,514 S	1/2016	McMahan et al.	D780,644 S	3/2017	Kim et al.
D747,515 S	1/2016	McMahan et al.	D781,184 S	3/2017	Thole et al.
D747,819 S	1/2016	Thole et al.	D781,192 S	3/2017	Kozub et al.
D749,021 S	2/2016	Boniface et al.	D782,379 S	3/2017	Wassell
D749,026 S	2/2016	Smith et al.	D783,482 S	4/2017	Smith et al.
D749,027 S	2/2016	McMahan et al.	D784,213 S	4/2017	Karras
D749,246 S	2/2016	Thole et al.	D784,223 S	4/2017	Lee
D749,249 S	2/2016	Thole et al.	D784,226 S	4/2017	Cheng
D749,250 S	2/2016	Thole et al.	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.

(56)

References Cited

U.S. PATENT DOCUMENTS

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	D12/163
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	
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	
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.	
D801,235 S *	10/2017	Gillam	D12/163
D801,236 S	10/2017	Kozub et al.	
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	
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	
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	
D813,098 S	3/2018	Thompson et al.	
D813,109 S	3/2018	Zipfel et al.	
D813,110 S	3/2018	Whitla et al.	
D813,111 S	3/2018	Sullivan	
D813,116 S	3/2018	Park	
D813,117 S	3/2018	Sullivan	
D813,121 S	3/2018	Swanseger	
D813,730 S	3/2018	Zipfel et al.	
D813,731 S	3/2018	McMahan	
D813,732 S *	3/2018	Whitla	D12/163
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	
D815,993 S	4/2018	Kozub et al.	
D815,994 S *	4/2018	Nakamura	D12/163
D816,003 S	4/2018	Perkins	
D819,505 S *	6/2018	McMahan	D12/163
2016/0221522 A1 *	8/2016	Abe	B60R 19/52

* cited by examiner

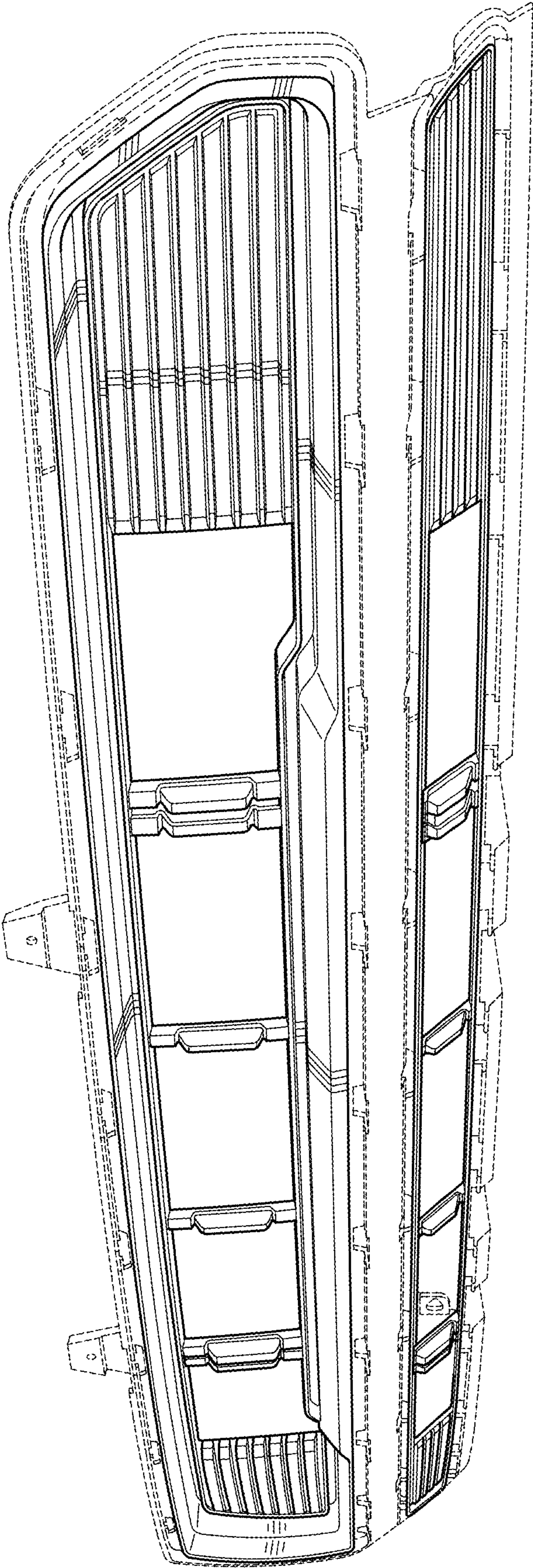


FIG. 1

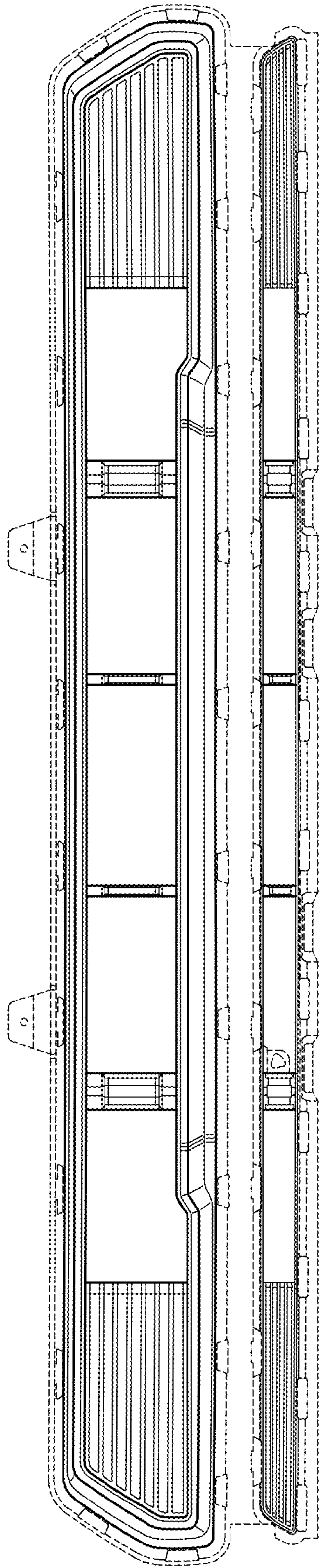


FIG. 2

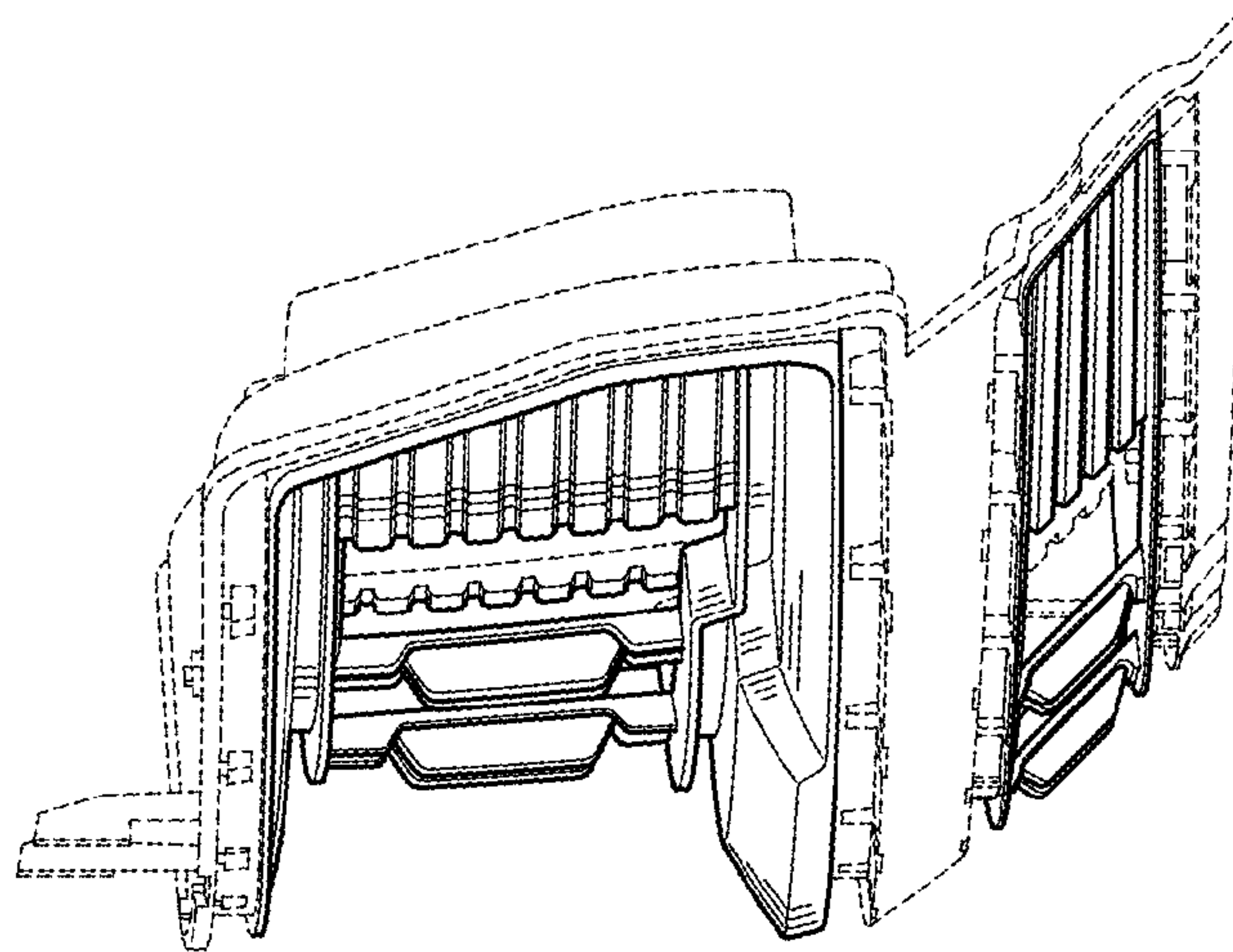


FIG. 3

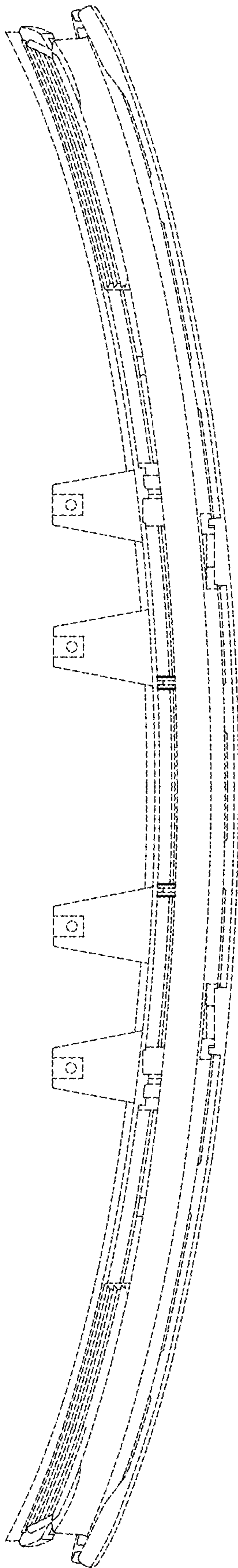


FIG. 4

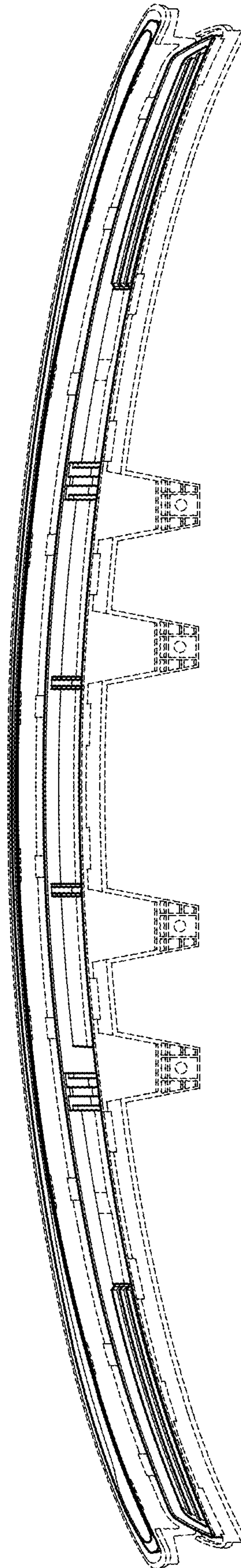


FIG. 5