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

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- (54) **VEHICLE FRONT LOWER BUMPER**
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- (\*\*) Term: **15 Years**
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- (51) **LOC (11) Cl.** ..... **12-16**
- (52) **U.S. Cl.**  
USPC ..... **D12/169**
- (58) **Field of Classification Search**  
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293/102, 113, 115, 117, 120; 296/180.1,  
296/180.2  
  
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.	
D610,502 S	* 2/2010	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	Barba 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.	
D680,909 S	4/2013	Munson et al.	

(Continued)

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(57) **CLAIM**

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

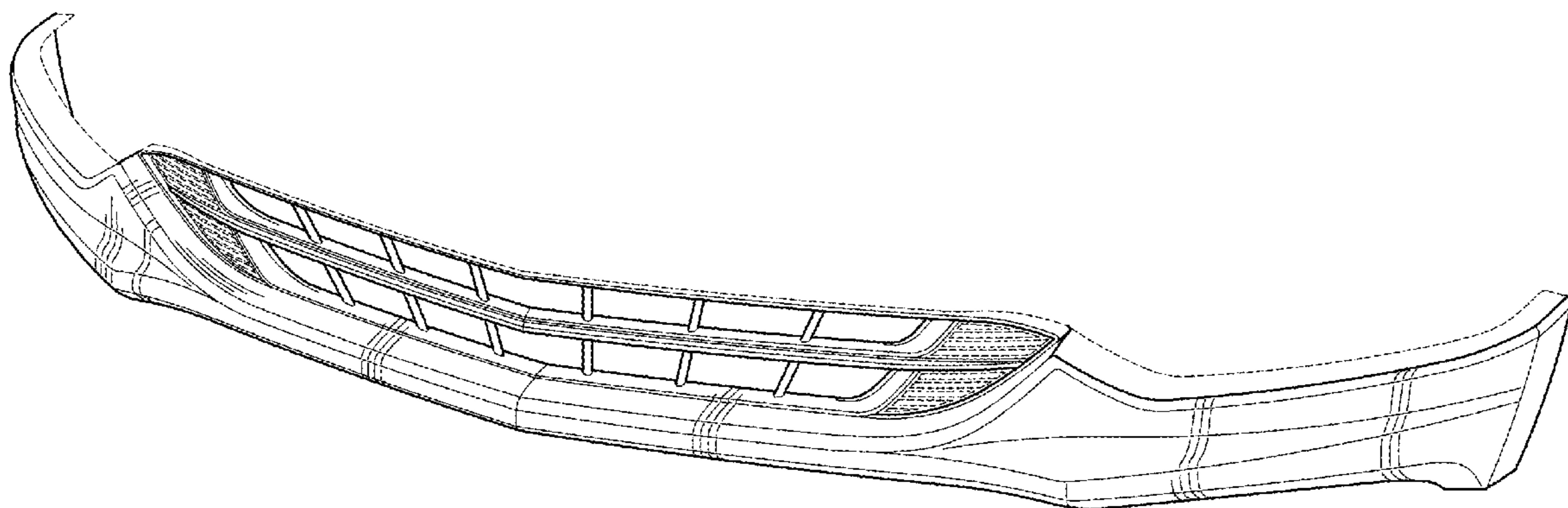
**DESCRIPTION**

FIG. 1 is a perspective view of a vehicle front lower bumper showing our new design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a left side elevational view thereof, the right side view being a mirror image thereof; and,  
FIG. 4 is a bottom view thereof.  
The broken lines shown in the drawings depict portions of the vehicle front lower bumper that form no part of the claimed design.

**1 Claim, 2 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

D680,910 S	4/2013	David	D741,223 S	10/2015	Kim et al.
D684,899 S	6/2013	Baker	D743,309 S	11/2015	Thole et al.
D686,536 S	7/2013	McCabe et al.	D743,313 S	11/2015	Smith et al.
D692,798 S	11/2013	Thurber	D743,314 S	11/2015	Thole et al.
D692,799 S	11/2013	Smith et al.	D743,857 S	11/2015	McMahan et al.
D696,157 S	12/2013	Loeb	D744,158 S	11/2015	Willett et al.
D699,629 S	2/2014	Ikeda et al.	D745,086 S	12/2015	Finos et al.
D700,871 S	3/2014	O'Donnell et al.	D745,719 S	12/2015	Boniface et al.
D701,801 S *	4/2014	Campbell ..... D12/169	D745,725 S	12/2015	McMahan et al.
D703,103 S	4/2014	Lee	D745,726 S	12/2015	McMahan et al.
D704,103 S	5/2014	Mack et al.	D745,837 S	12/2015	Smith et al.
D705,132 S	5/2014	Ware et al.	D746,726 S	1/2016	Smith et al.
D705,699 S	5/2014	Ware et al.	D746,727 S	1/2016	Smith et al.
D713,298 S	9/2014	Dyson	D746,728 S	1/2016	Smith et al.
D713,764 S	9/2014	Ferlazzo et al.	D746,729 S	1/2016	Boniface et al.
D716,696 S	11/2014	Thole et al.	D746,730 S	1/2016	Kim et al.
D716,706 S	11/2014	Thole et al.	D747,514 S	1/2016	McMahan et al.
D716,709 S	11/2014	Thole et al.	D747,515 S	1/2016	McMahan et al.
D717,696 S	11/2014	Thole et al.	D747,819 S	1/2016	Thole et al.
D718,189 S	11/2014	Krieg et al.	D749,021 S	2/2016	Boniface et al.
D718,683 S	12/2014	Thole et al.	D749,026 S	2/2016	Smith et al.
D722,282 S	2/2015	Loeb	D749,027 S	2/2016	McMahan et al.
D722,533 S	2/2015	Thole et al.	D749,246 S	2/2016	Thole et al.
D722,534 S	2/2015	Munson et al.	D749,249 S	2/2016	Thole et al.
D724,510 S	3/2015	McMahan et al.	D749,250 S	2/2016	Thole et al.
D725,001 S	3/2015	McMahan et al.	D749,472 S *	2/2016	Lee ..... D12/169
D726,591 S	4/2015	Jacob	D749,985 S	2/2016	Kozub et al.
D727,225 S *	4/2015	Rupar ..... D12/169	D749,997 S	2/2016	McMahan et al.
D730,776 S	6/2015	Smart	D750,001 S	2/2016	Thole et al.
D730,783 S	6/2015	Henriques et al.	D753,032 S	4/2016	Smith et al.
D732,427 S	6/2015	Loeb	D753,033 S	4/2016	Thole et al.
D732,429 S	6/2015	Loeb	D753,034 S	4/2016	Thole et al.
D732,430 S	6/2015	Loeb	D753,035 S	4/2016	Boniface et al.
D732,431 S	6/2015	Loeb	D753,559 S	4/2016	McMahan et al.
D732,432 S	6/2015	Aengenheyster	D753,560 S	4/2016	McMahan et al.
D732,433 S	6/2015	Aengenheyster	D753,567 S	4/2016	Boniface et al.
D732,435 S	6/2015	Mackay	D754,571 S	4/2016	Boniface et al.
D733,002 S	6/2015	Loeb	D754,572 S	4/2016	McMahan et al.
D735,611 S	8/2015	Aengenheyster	D755,088 S	5/2016	McMahan et al.
D735,627 S	8/2015	Smith	D756,869 S	5/2016	McMahan et al.
D736,451 S	8/2015	Smith	D758,271 S	6/2016	McMahan et al.
D739,306 S	9/2015	McMahan et al.	D771,533 S *	11/2016	Kapitonov ..... D12/169
D739,317 S	9/2015	McMahan et al.	D771,534 S *	11/2016	Bucher ..... D12/169
			D793,302 S *	8/2017	Kozub ..... D12/169

\* cited by examiner

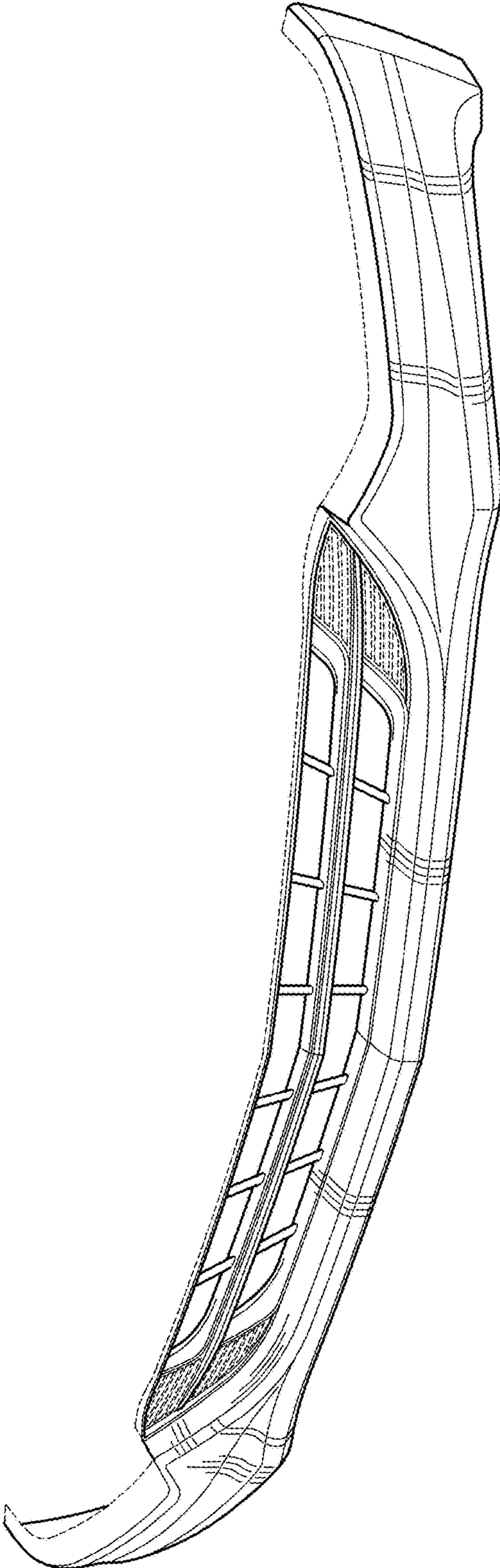


FIG. 1

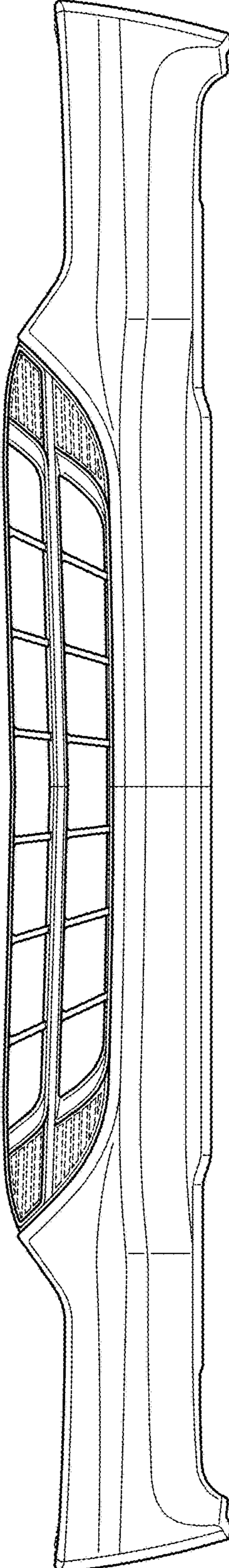


FIG. 2

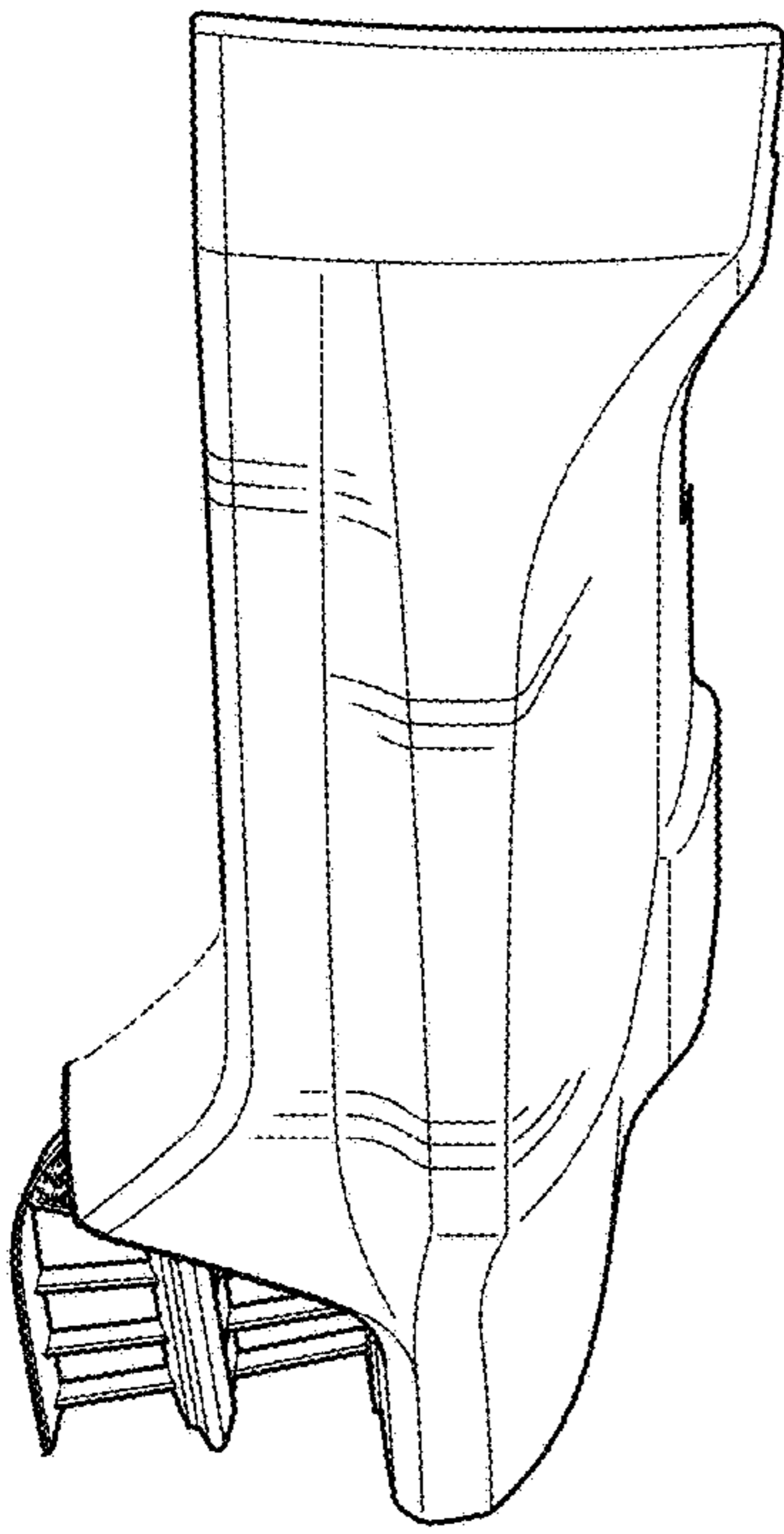


FIG. 3

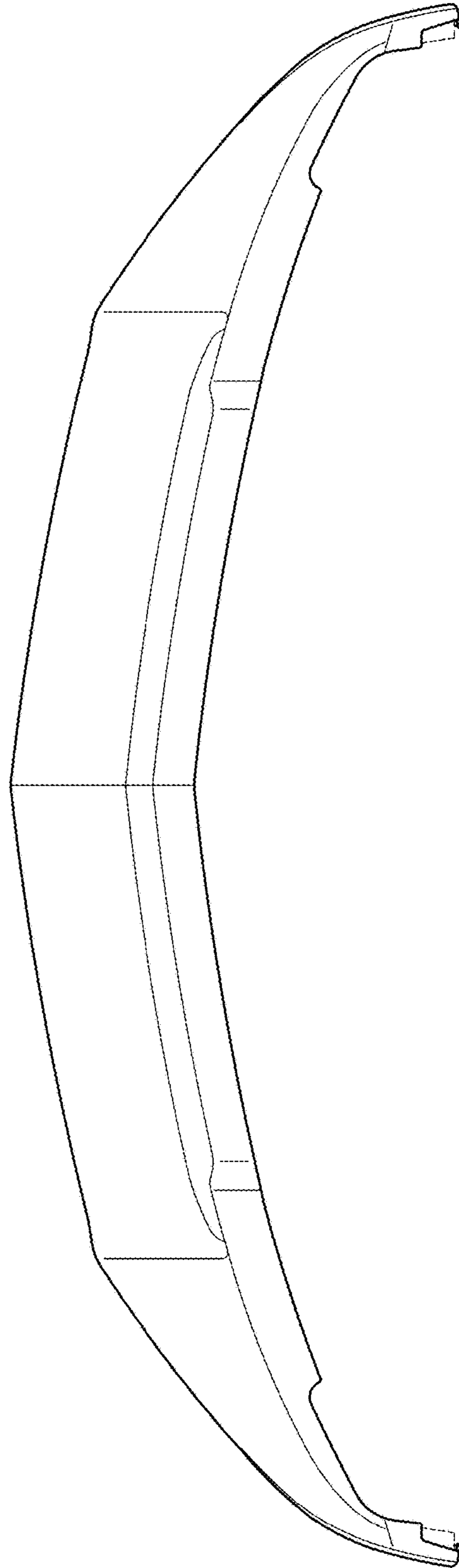


FIG. 4