

(12)

United States Design Patent

Kim et al.

(10)

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(45)

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(54) **VEHICLE SPOILER**

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

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(51) **LOC (14) Cl.** ..... **12-16**

(52) **U.S. Cl.**  
USPC ..... **D12/181**

(58) **Field of Classification Search**  
USPC ..... D12/181–184, 191, 400, 190  
CPC ..... B62D 35/00; B62D 35/007; B62D 37/02  
See application file for complete search history.

|              |           |                  |         |
|--------------|-----------|------------------|---------|
| D824,810 S   | 8/2018    | Koo et al.       |         |
| D829,622 S   | 10/2018   | Jacob            |         |
| D830,261 S   | 10/2018   | Jacob            |         |
| D839,164 S   | 1/2019    | Zipfel           |         |
| D842,306 S   | 3/2019    | Lindo et al.     |         |
| D863,170 S   | 10/2019   | Zipfel           |         |
| D867,241 S   | * 11/2019 | Schmölz          | D12/181 |
| D867,951 S   | 11/2019   | Izard            |         |
| D868,756 S   | 12/2019   | Song et al.      |         |
| D897,915 S   | 10/2020   | Ruiz             |         |
| D903,077 S   | 11/2020   | Mainville et al. |         |
| D903,078 S   | 11/2020   | Mainville et al. |         |
| D930,532 S   | 9/2021    | Zhao et al.      |         |
| D938,874 S   | 12/2021   | Bennion          |         |
| D972,993 S   | * 12/2022 | Taverna          | D12/181 |
| D974,981 S   | * 1/2023  | Connelly         | D12/181 |
| D1,013,595 S | * 2/2024  | Siddall          | D12/181 |
| D1,019,494 S | * 3/2024  | Chiang           | D12/181 |
| D1,020,575 S | * 4/2024  | Willis           | D12/181 |
| D1,021,718 S | * 4/2024  | Chung            | D12/181 |
| D1,024,871 S | * 4/2024  | Piaskowski       | D12/181 |

(Continued)

Primary Examiner — Katrina A Betton

(57) **CLAIM**

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

(56) **References Cited**

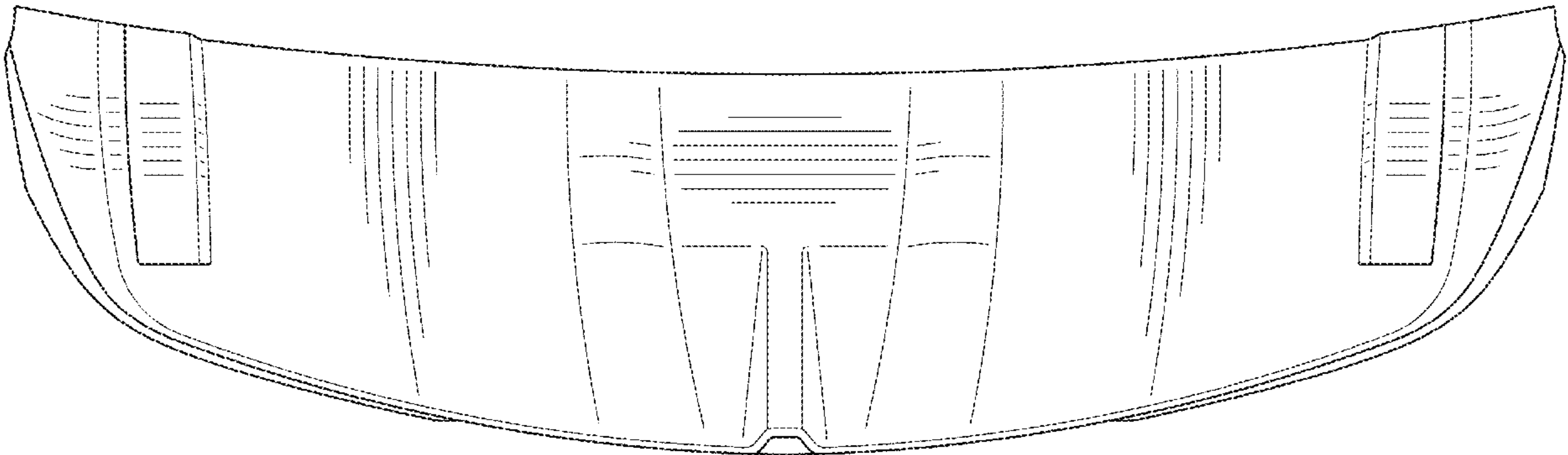
U.S. PATENT DOCUMENTS

|            |   |        |                |         |
|------------|---|--------|----------------|---------|
| D547,707 S | * | 7/2007 | Kulla          | D12/181 |
| D656,439 S | * | 3/2012 | Saracoglu      | D12/181 |
| D686,127 S |   | 7/2013 | Munson et al.  |         |
| D711,298 S |   | 8/2014 | Jamieson       |         |
| D724,003 S |   | 3/2015 | Fonseca et al. |         |
| D757,631 S |   | 5/2016 | Jamieson       |         |
| D777,628 S |   | 1/2017 | Kozub et al.   |         |
| D784,223 S |   | 4/2017 | Lee            |         |
| D784,877 S |   | 4/2017 | Lee            |         |
| D786,156 S |   | 5/2017 | Kang           |         |
| D787,446 S |   | 5/2017 | Cockerill      |         |
| D795,747 S |   | 8/2017 | Bailie         |         |
| D807,232 S |   | 1/2018 | Bailie         |         |
| D821,941 S |   | 7/2018 | Mack et al.    |         |

**DESCRIPTION**

FIG. 1 is a front and left side perspective view of a vehicle spoiler showing our new design;  
FIG. 2 is a front elevation view of the vehicle spoiler of FIG. 1;  
FIG. 3 is a left side elevation view thereof;  
FIG. 4 is a right side elevation view thereof;  
FIG. 5 is a back elevation view thereof;  
FIG. 6 is a top plan view thereof; and,  
FIG. 7 is a bottom plan view thereof.  
The broken lines in the drawings depict portions of the vehicle spoiler that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)                   **References Cited**

U.S. PATENT DOCUMENTS

|            |   |   |        |         |       |         |
|------------|---|---|--------|---------|-------|---------|
| D1,036,338 | S | * | 7/2024 | George  | ..... | D12/181 |
| D1,037,955 | S | * | 8/2024 | Oigawa  | ..... | D12/181 |
| D1,037,956 | S | * | 8/2024 | Jenkins | ..... | D12/181 |

\* cited by examiner

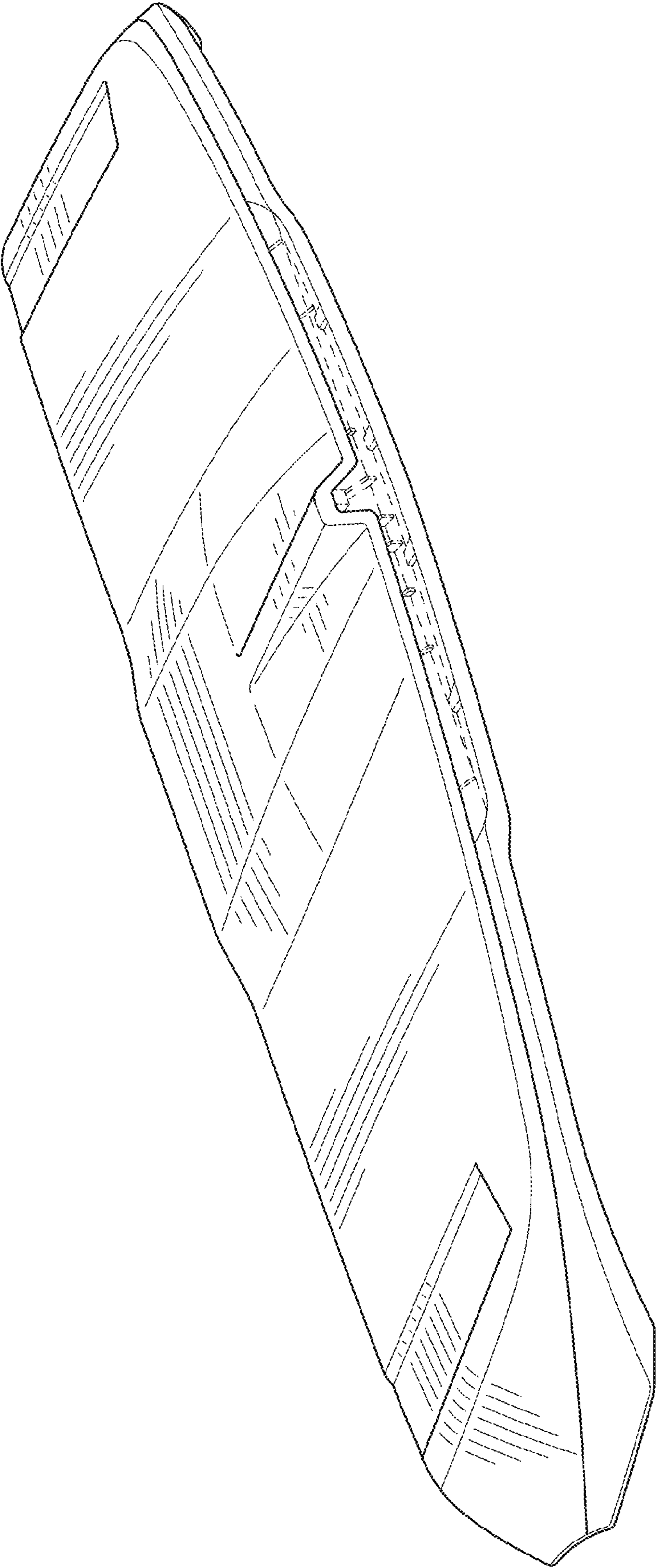


FIG. 1

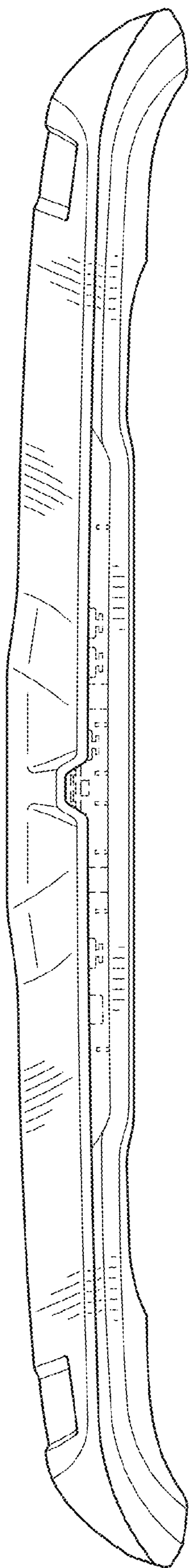


FIG. 2

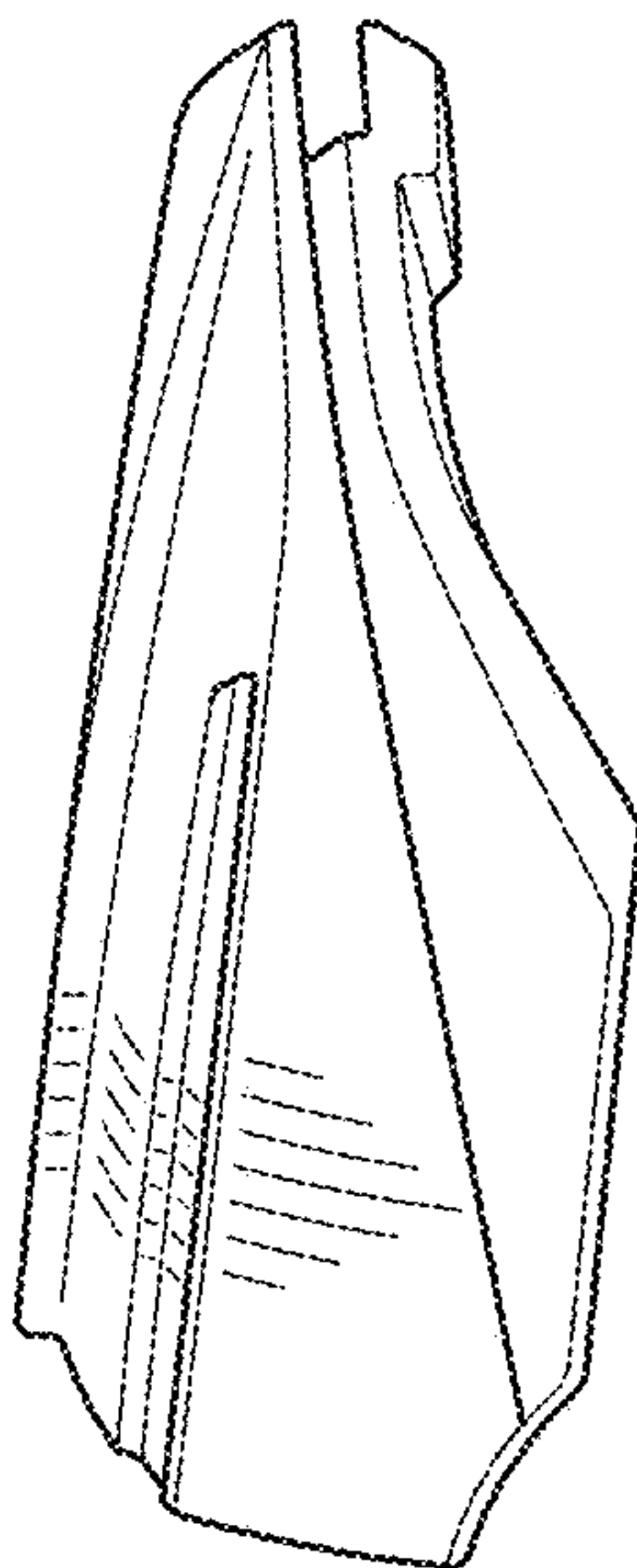


FIG. 3

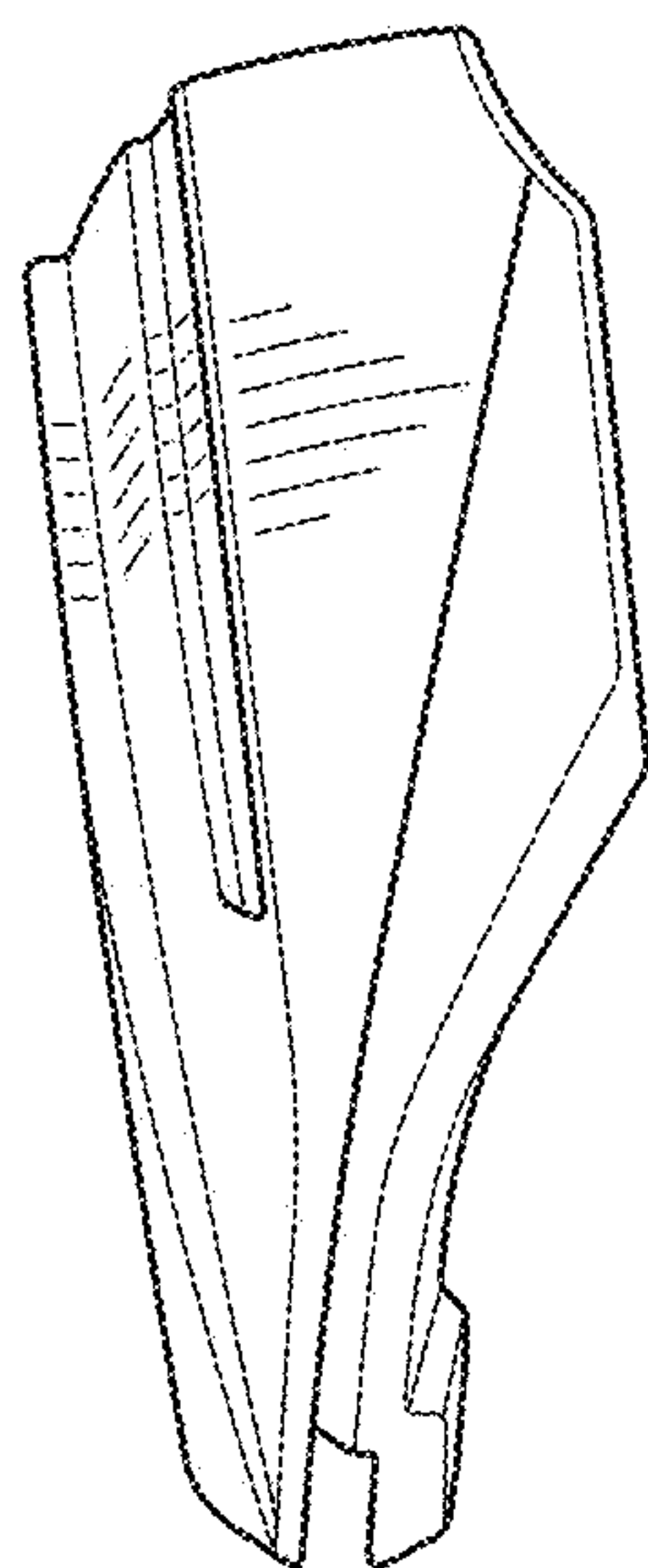


FIG. 4

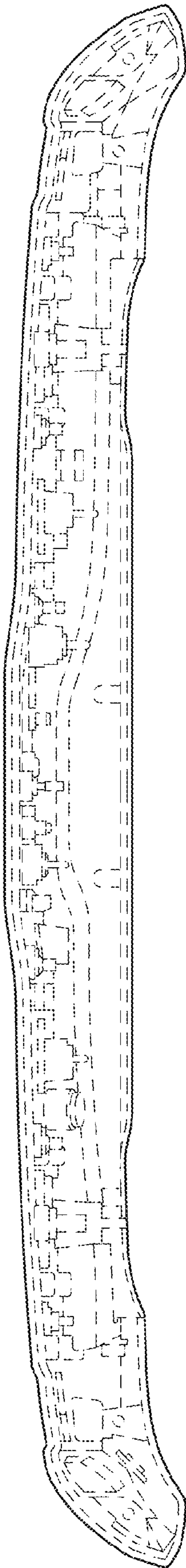


FIG. 5

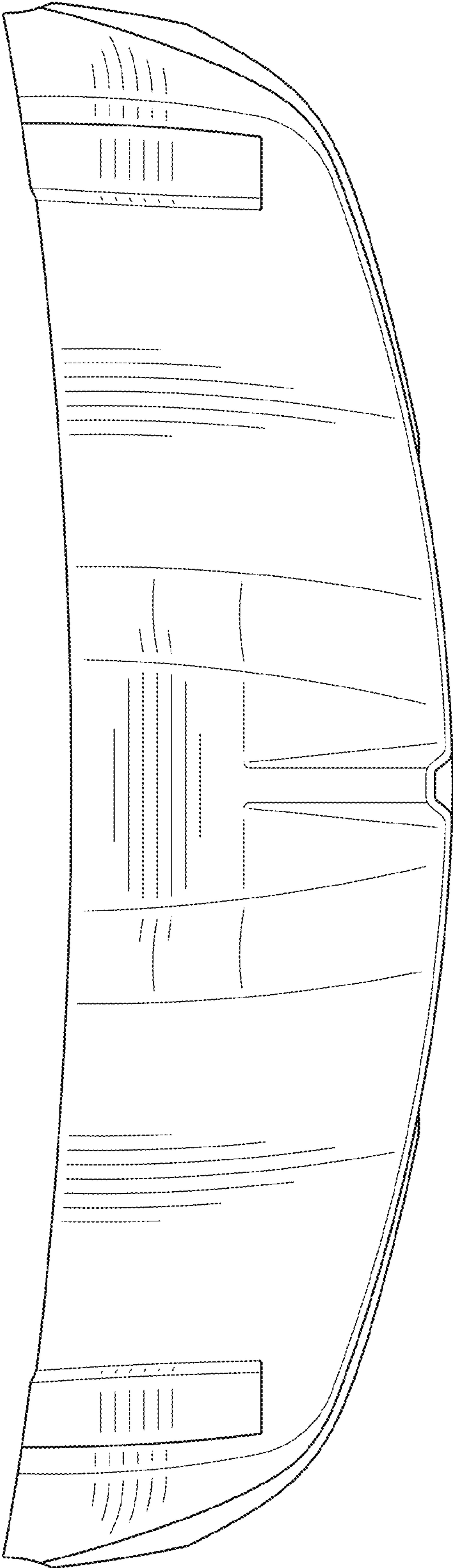


FIG. 6

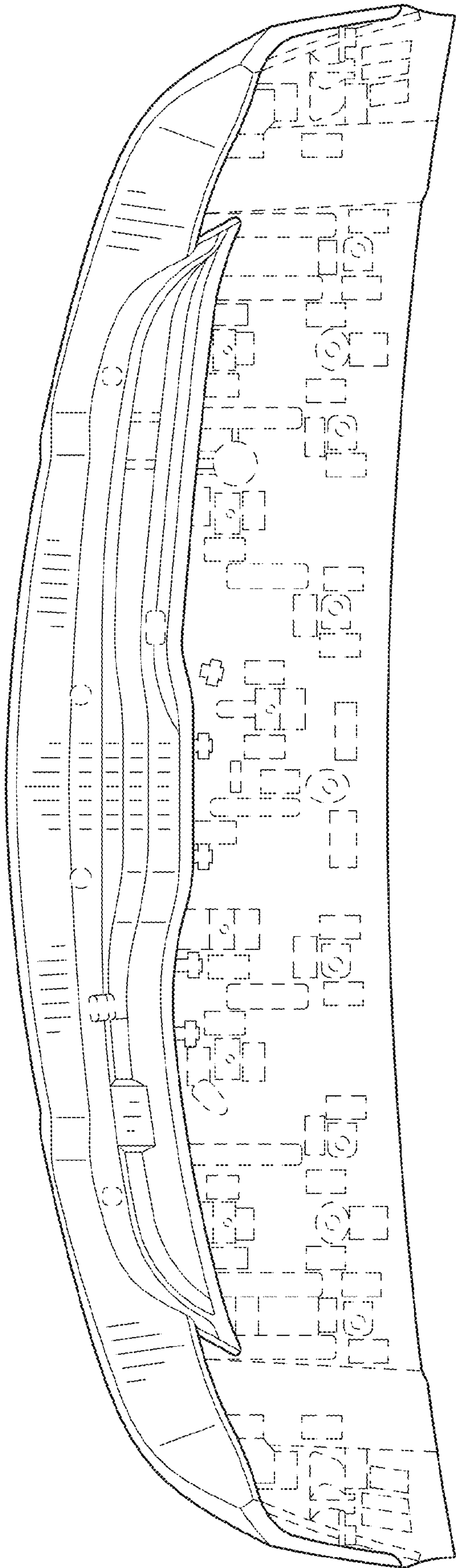


FIG. 7