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

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(45) **Date of Patent:** **\*\* Dec. 27, 2011**

(54) **UNMANNED AIR-LAUNCHED CARGO GLIDER**

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(73) Assignee: **Aurora Flight Sciences Corporation**, Manassas, VA (US)

(\*\*) Term: **14 Years**

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(22) Filed: **Mar. 31, 2010**

(51) **LOC (9) Cl.** ..... **12-07**

(52) **U.S. Cl.** ..... **D12/319**

(58) **Field of Classification Search** ..... D12/319,  
D12/321, 333; 446/34, 61-63, 487-490;  
244/153 R, 153 A, 154, 155 R, 155 A, 900-904;  
D21/436, 445-450

See application file for complete search history.

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(57) **CLAIM**

The ornamental design for an unmanned air-launched cargo glider, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of an unmanned air-launched cargo glider in accordance with the present invention. In this embodiment, the glider is shown in a flight configuration.

FIG. 2 is a bottom perspective view thereof.

FIG. 3 is a top perspective view thereof.

FIG. 4 is a front view thereof.

FIG. 5 is a side view thereof.

FIG. 6 is a top view thereof.

FIG. 7 is a perspective view of a right hinged wing of FIG. 1, shown separately for clarity.

FIG. 8 is a perspective view of a nose portion of FIG. 1, shown separately for clarity.

FIG. 9 is a perspective view of a continuous spar of the inboard portions of both wings of an unmanned air-launched cargo glider in accordance with the FIG. 1 embodiment.

FIG. 10 is a perspective view of a cargo bay portion of an unmanned air-launched cargo glider in accordance with the FIG. 1 embodiment.

FIG. 11 is a perspective view of a left hinged wing of an unmanned air-launched cargo glider in accordance with the FIG. 1 embodiment.

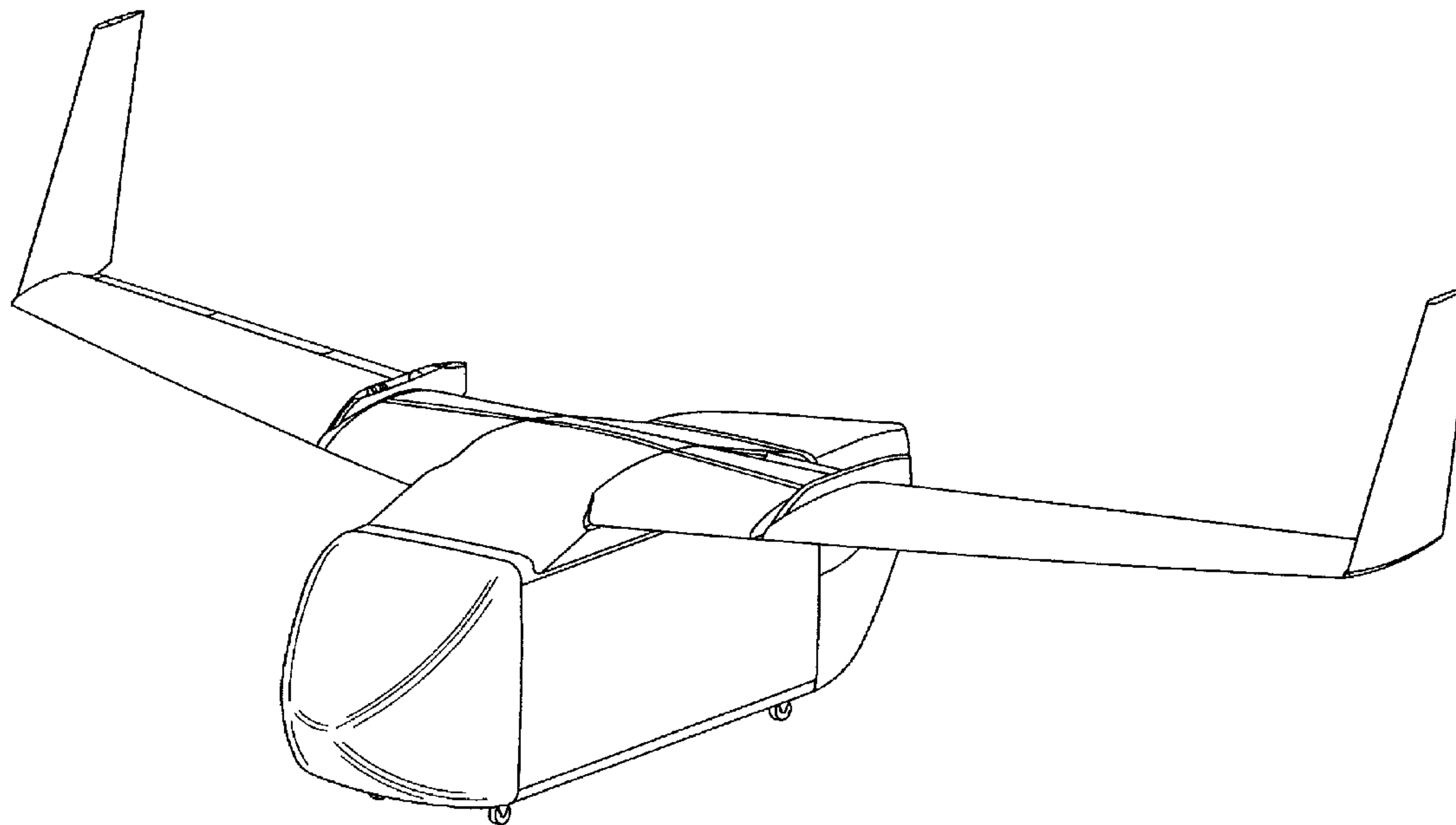
FIG. 12 is a perspective view of a tail portion of an unmanned air-launched cargo glider in accordance with the FIG. 1 embodiment.

FIG. 13 is a front perspective view of the glider of FIG. 1, shown in a partially unfolded configuration; and,

FIG. 14 is a front perspective view of the glider of FIG. 1, shown in a fully folded and storable configuration.

The broken line showing of portions of the unmanned air launched cargo glider form no part of the claimed design.

**1 Claim, 14 Drawing Sheets**



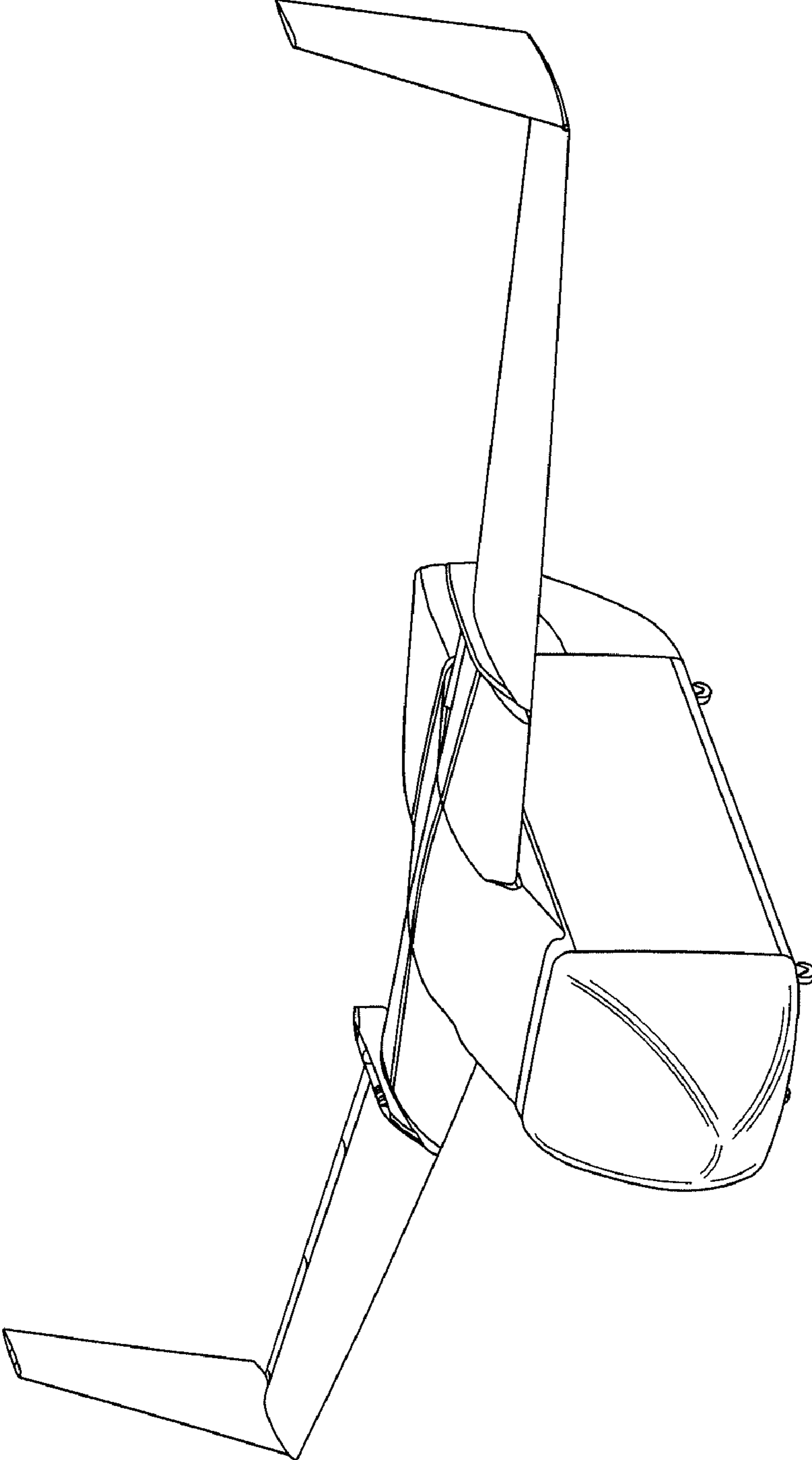


FIG. 1

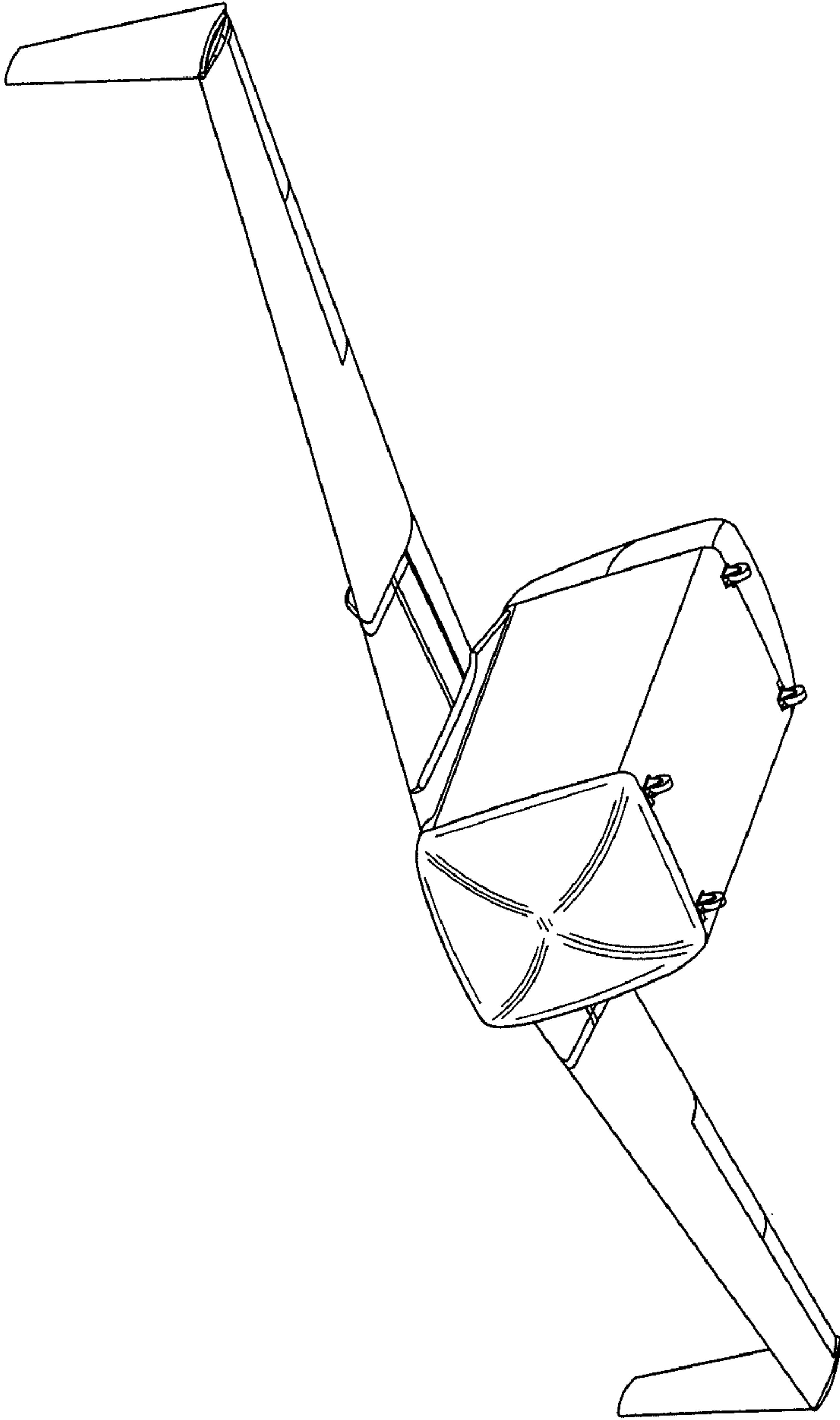
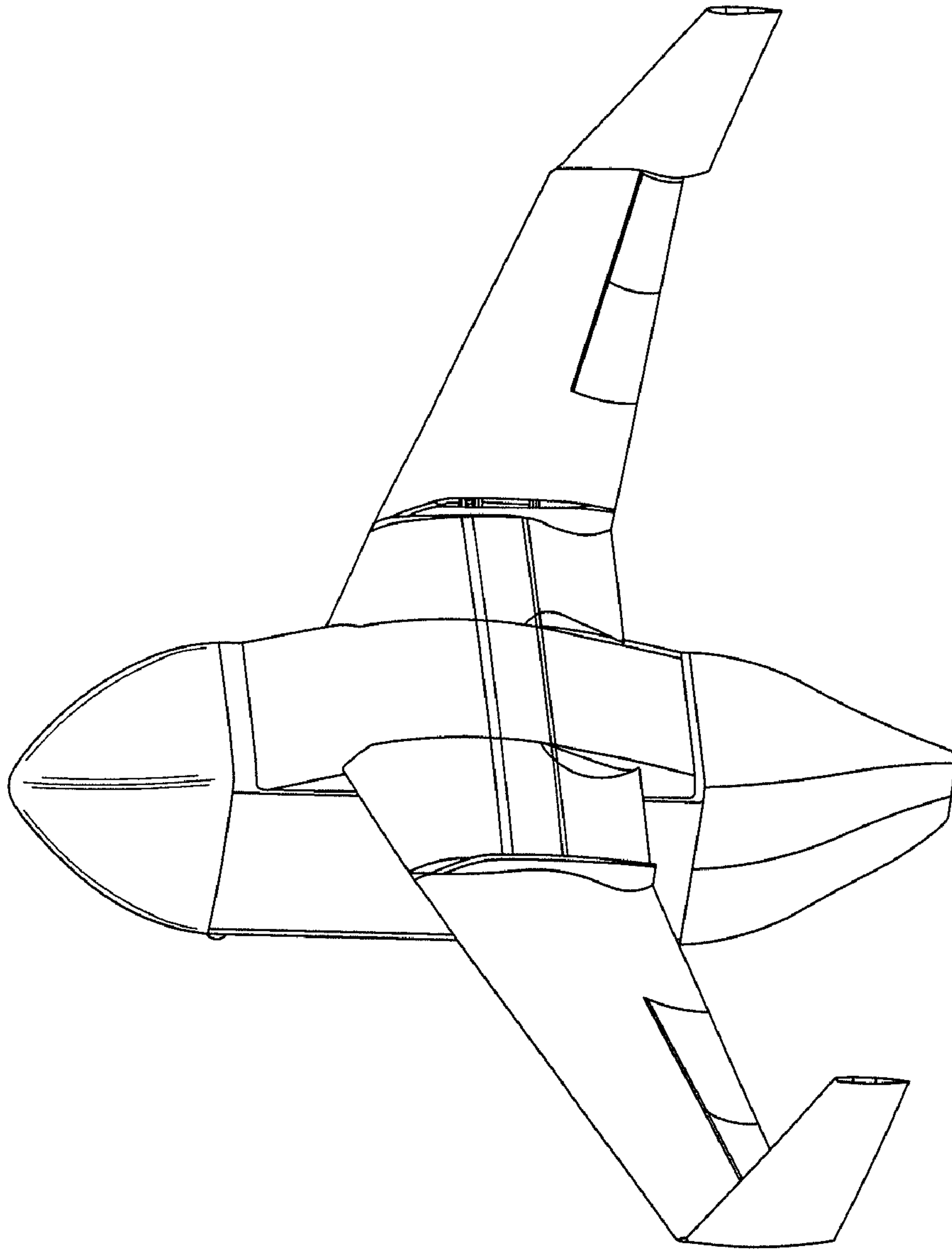
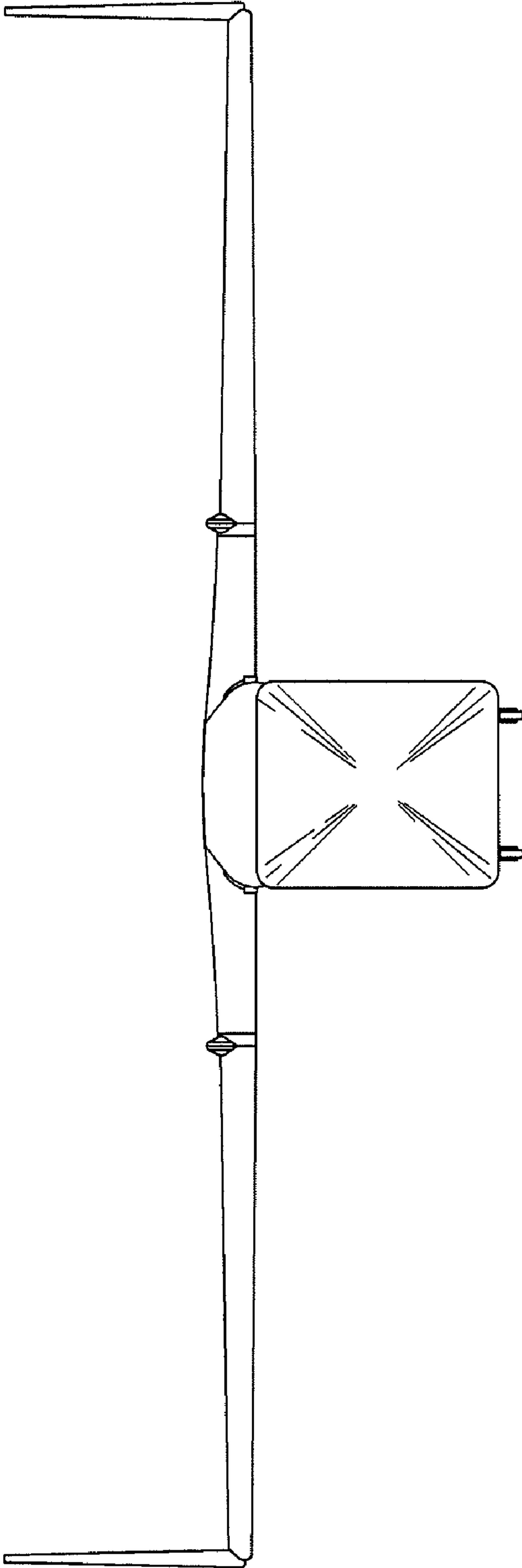


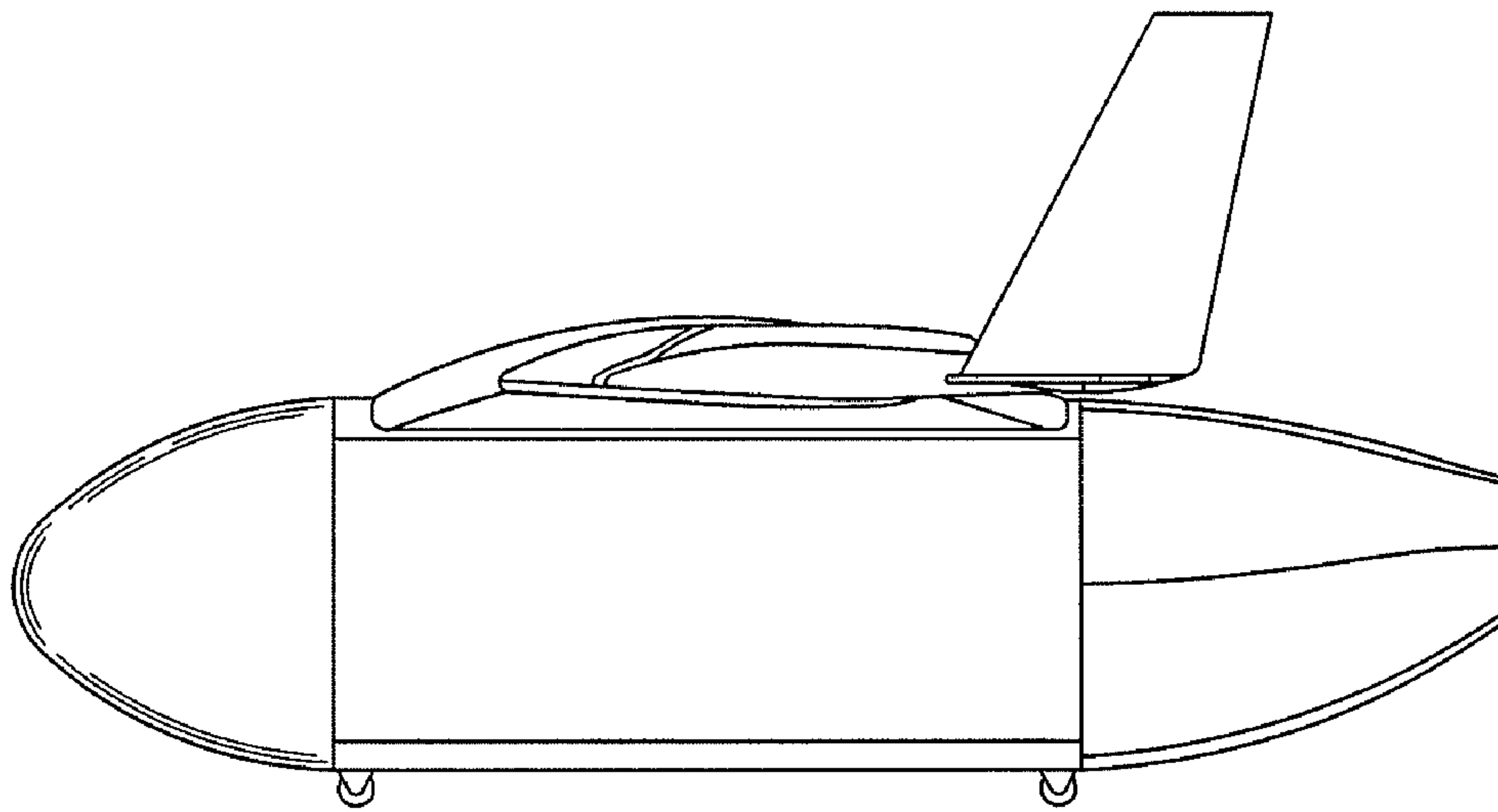
FIG. 2



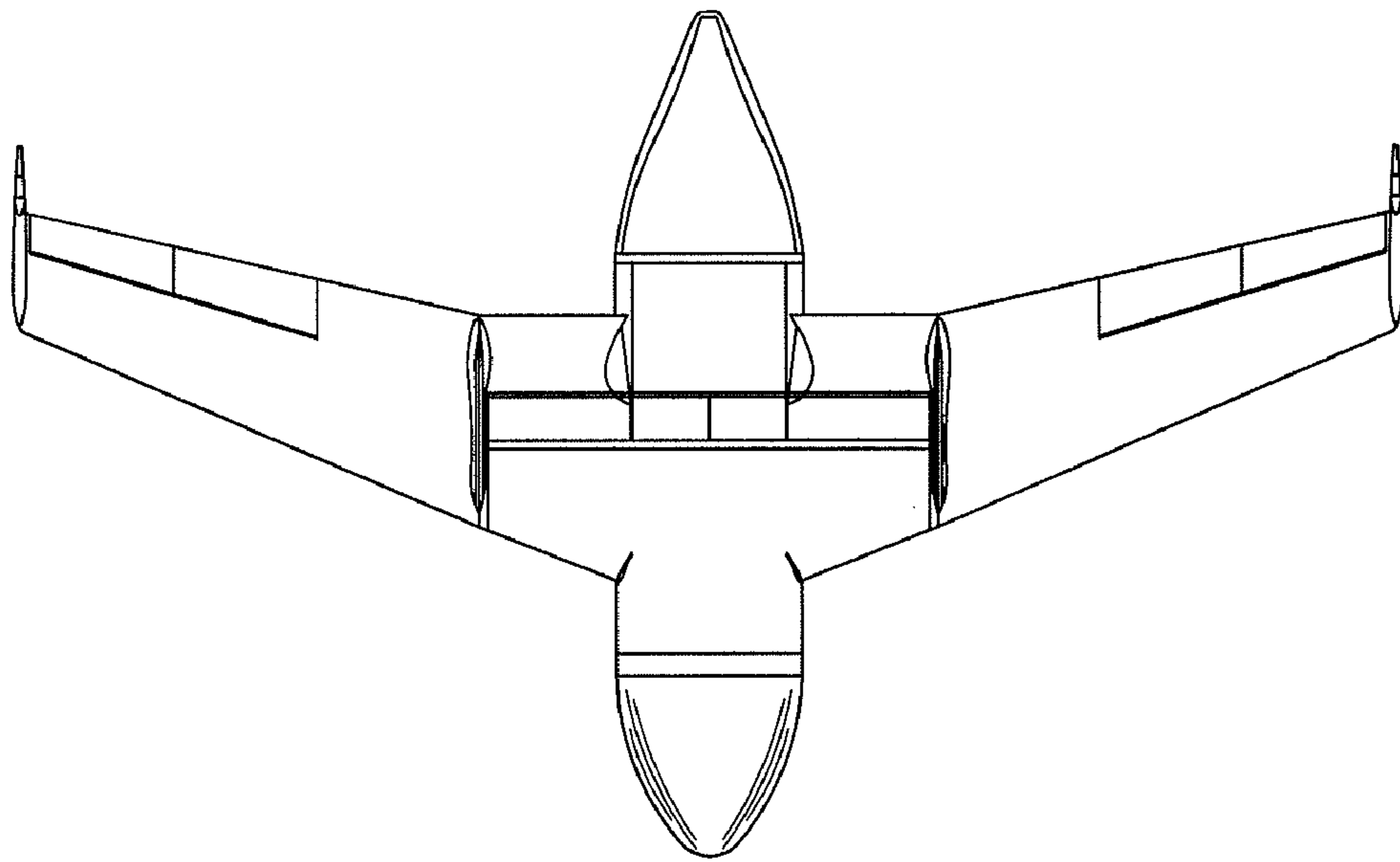
**FIG. 3**



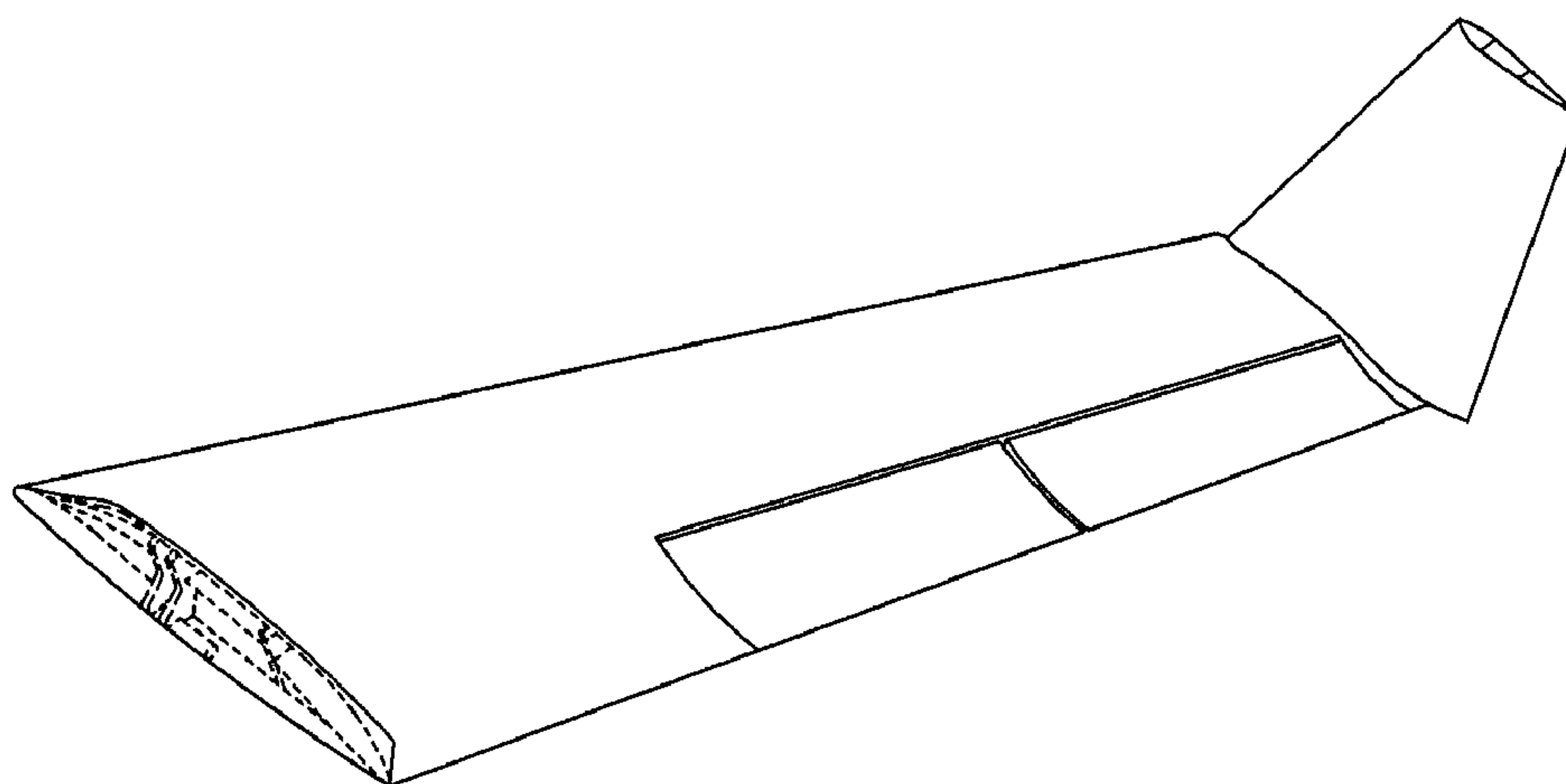
**FIG. 4**



**FIG. 5**

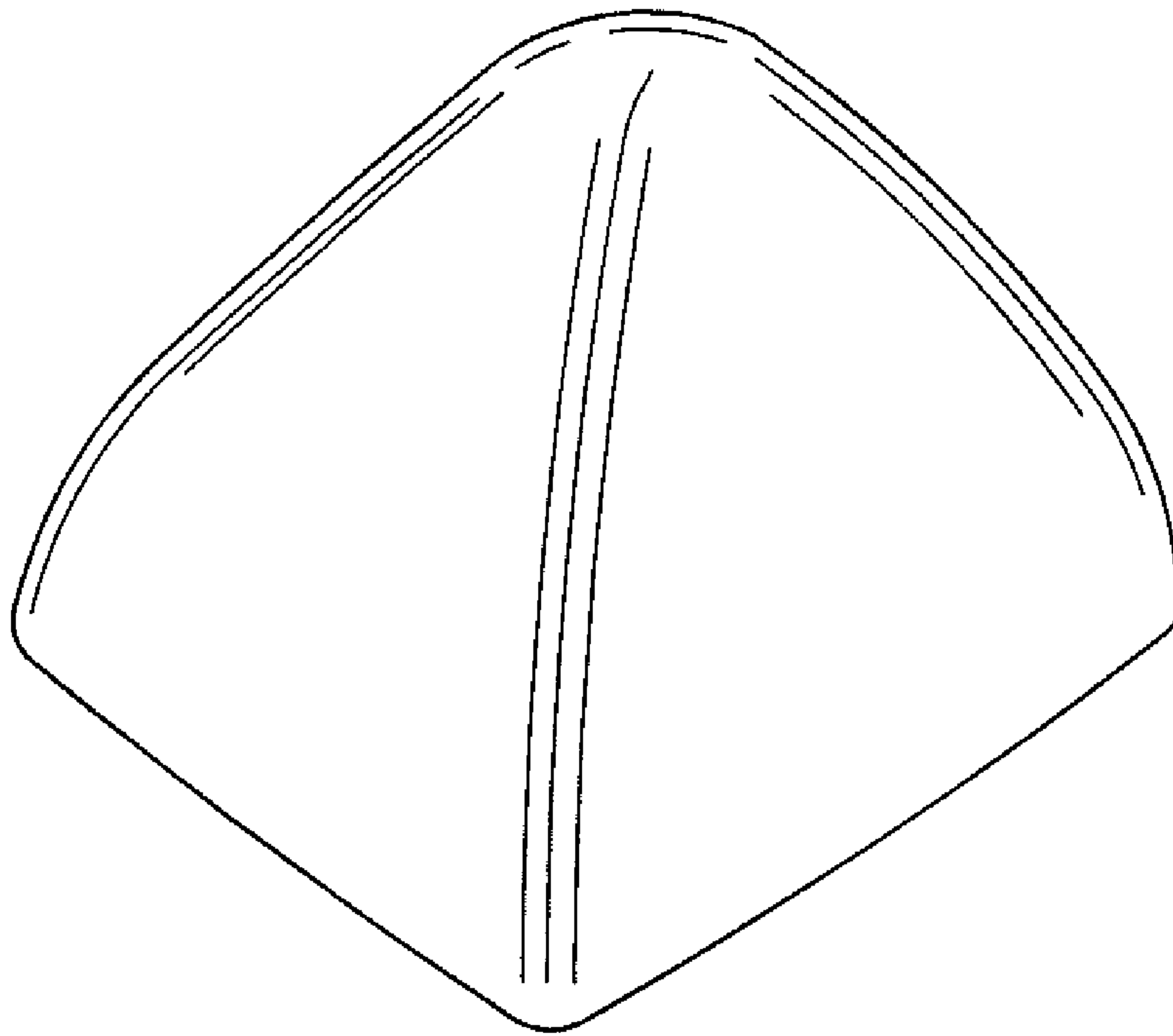


**FIG. 6**

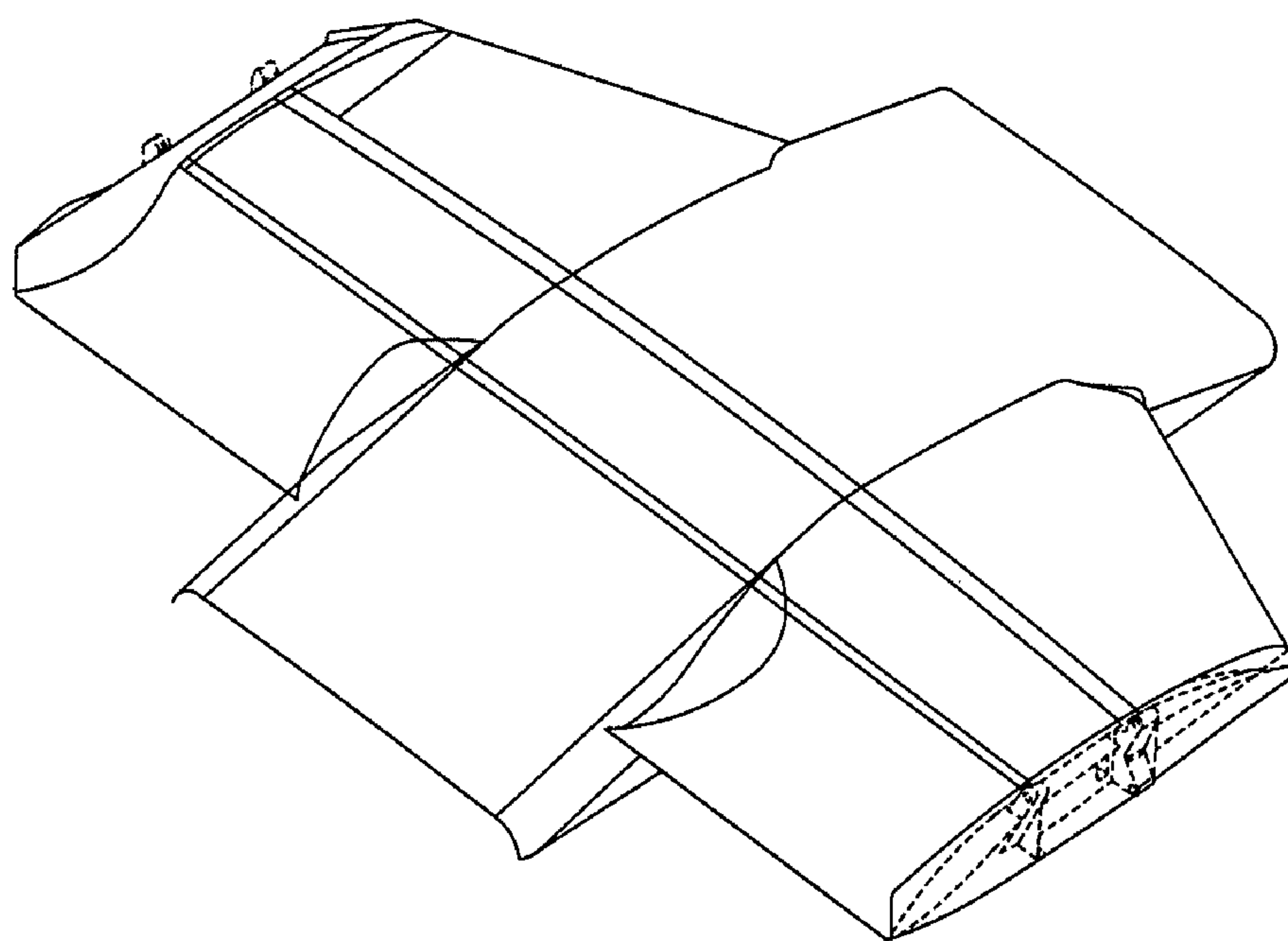


**FIG. 7**

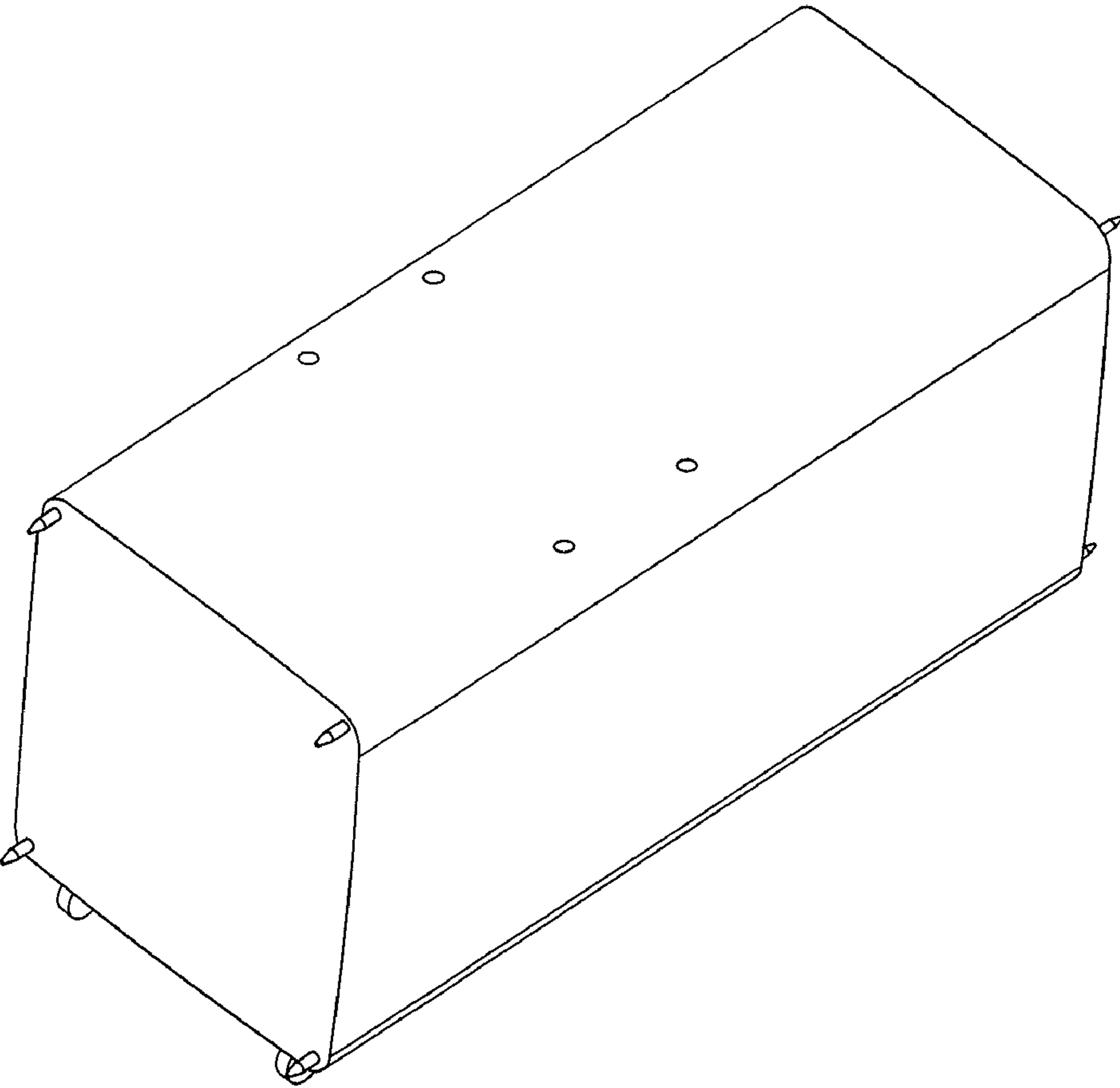




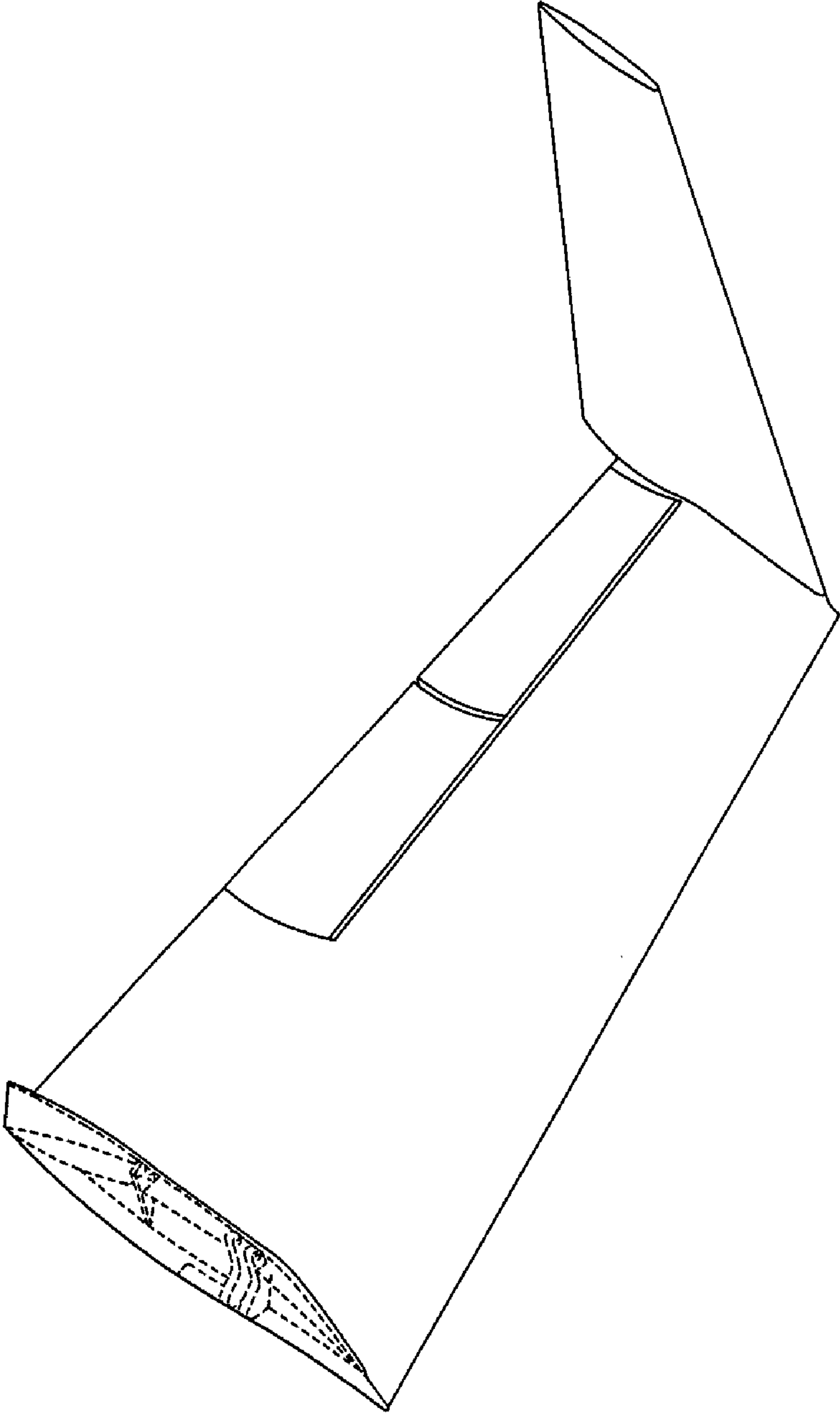
**FIG. 8**



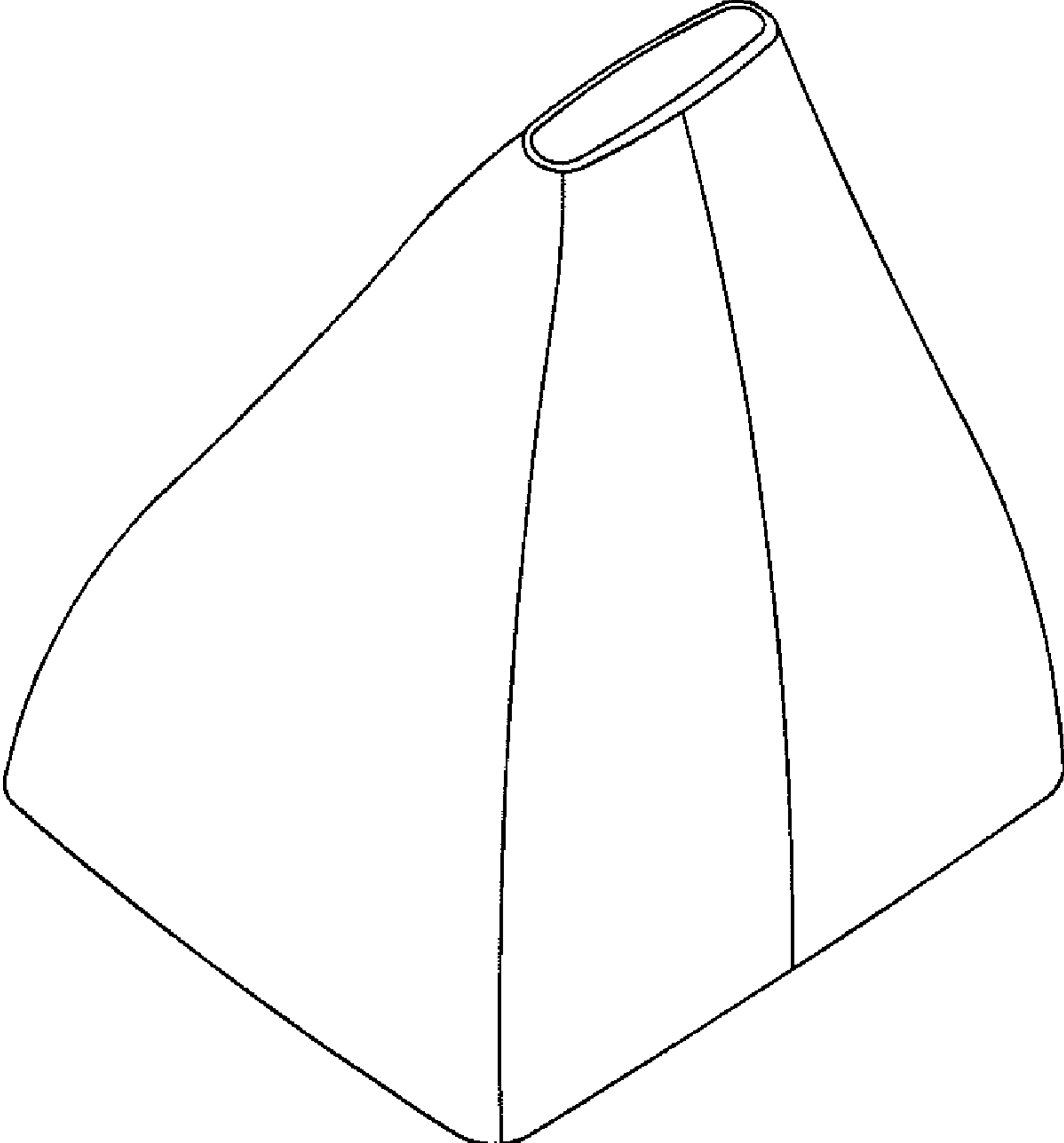
**FIG. 9**



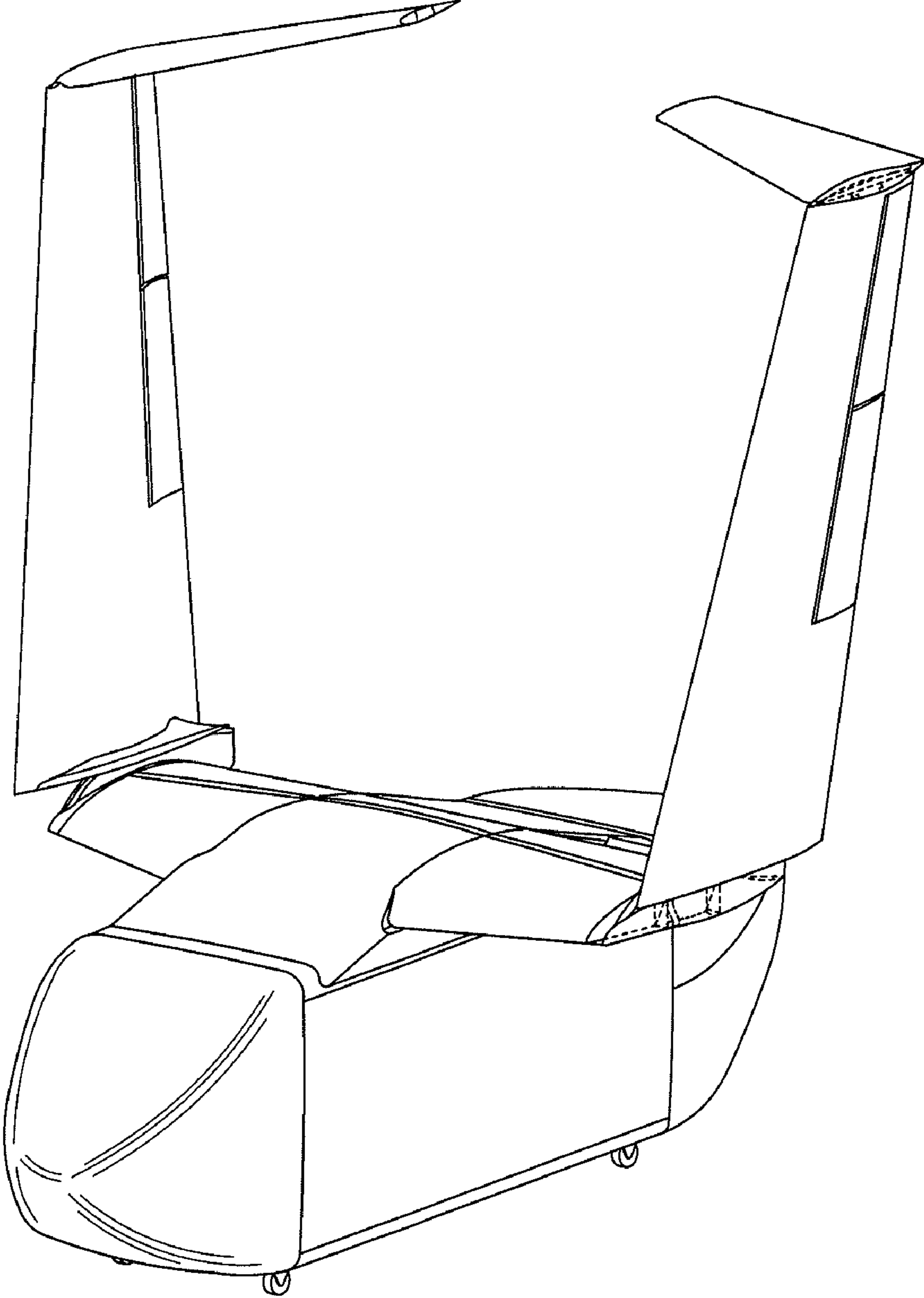
**FIG. 10**



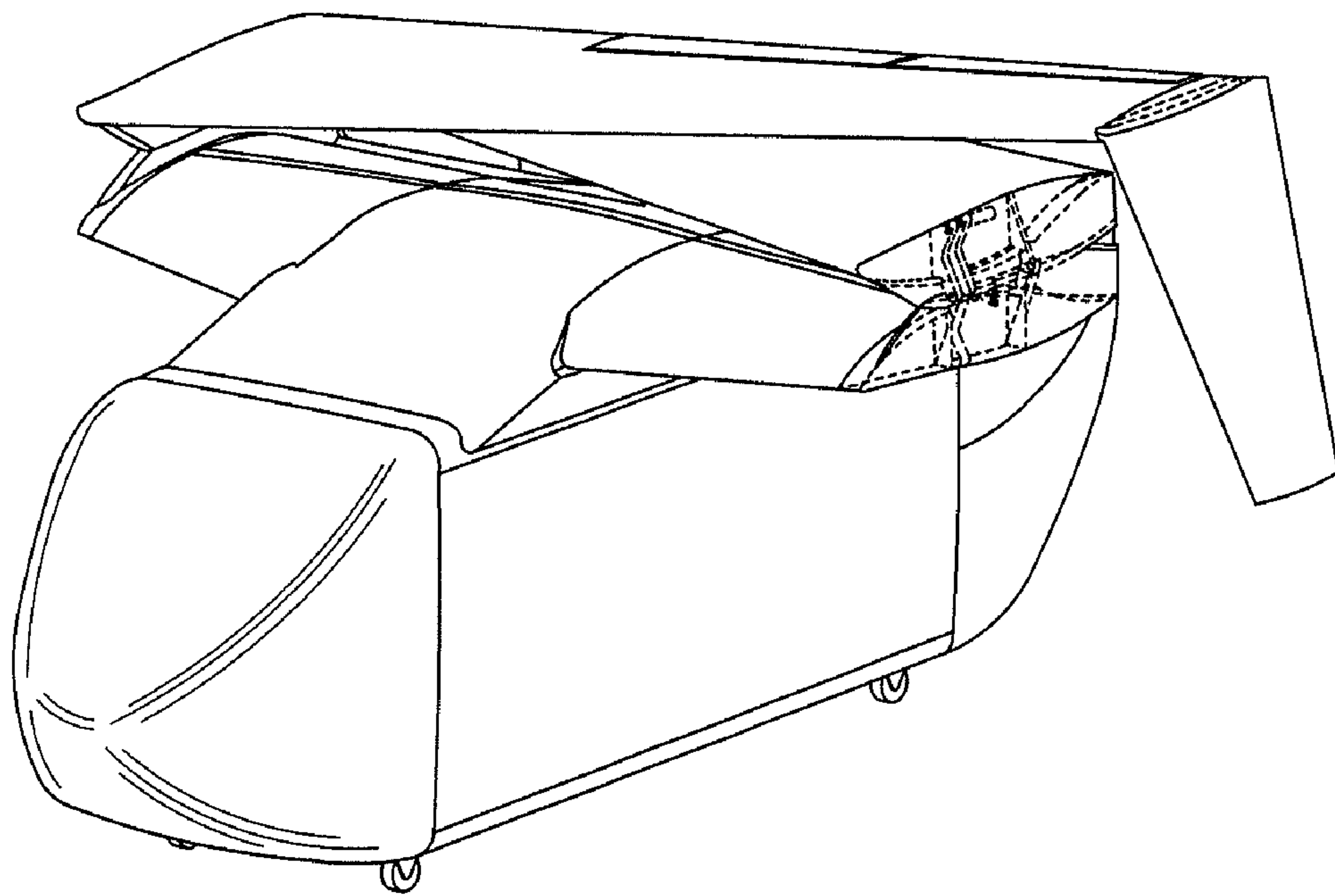
**FIG. 11**



**FIG. 12**



**FIG. 13**



**FIG. 14**