



US00D952514S

(12) **United States Design Patent** (10) **Patent No.:** **US D952,514 S**
Tian (45) **Date of Patent:** **** *May 24, 2022**

- (54) **FIXED-WING VTOL DRONE**
- (71) Applicant: **SHANGHAI AUTOFLIGHT CO., LTD.**, Shanghai (CN)
- (72) Inventor: **Yu Tian**, Hong Kong (CN)
- (73) Assignee: **SHANGHAI AUTOFLIGHT CO., LTD.**, Shanghai (CN)
- (*) Notice: This patent is subject to a terminal disclaimer.
- (**) Term: **15 Years**
- (21) Appl. No.: **29/658,786**
- (22) Filed: **Aug. 2, 2018**
- (51) **LOC (13) Cl.** **12-07**
- (52) **U.S. Cl.**
USPC **D12/16.1**
- (58) **Field of Classification Search**
USPC D12/1-4, 16.1, 319-345; D21/436-454
CPC B64C 39/024; B64C 13/16; B64C 19/00;
B64C 2201/021; B64C 2201/141; B60H
1/3442
See application file for complete search history.

10,081,436 B1 * 9/2018 Tian B64D 31/00
 D832,154 S * 10/2018 Tian D12/161
 D843,306 S * 3/2019 Tzarnotzky D12/329
 D843,889 S * 3/2019 Merrill D12/16.1
 (Continued)

OTHER PUBLICATIONS

AutoFlightX. by Kerry Lynch, dated Apr. 10, 2019. found online [Aug. 1, 2019] <https://www.ainonline.com/aviation-news/general-aviation/2019-04-10/autoflightx-takes-wraps-all-electric-demonstrator>.
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Primary Examiner — Marissa J Cash
 (74) *Attorney, Agent, or Firm* — WPAT Law, P.C.;
 Anthony King

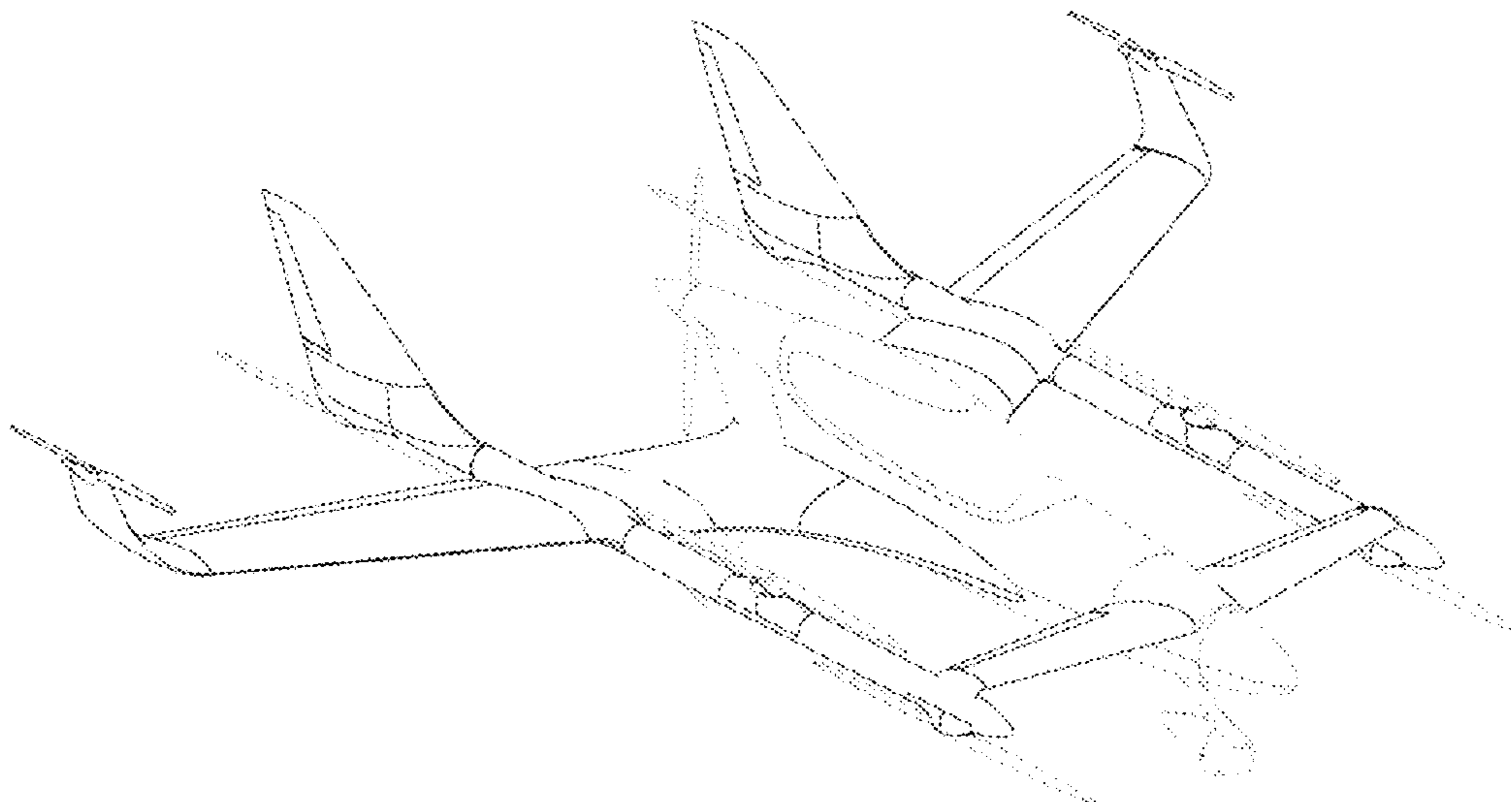
(57) **CLAIM**

The ornamental design for a fixed-wing VTOL drone, as shown and described.

DESCRIPTION

FIG. 1 is a perspective right top front side view of the fixed-wing VTOL drone, the perspective left top front side view being a mirror image thereof;
 FIG. 2 is a top view of the fixed-wing VTOL drone of FIG. 1;
 FIG. 3 is a bottom view of the fixed-wing VTOL drone of FIG. 1;
 FIG. 4 is a front of the fixed-wing VTOL drone of FIG. 1;
 FIG. 5 is a rear view of the fixed-wing VTOL drone of FIG. 1;
 FIG. 6 is a left side view of the fixed-wing VTOL drone of FIG. 1, the right side view being a mirror image thereof; and,
 FIG. 7 is a perspective right bottom front side view of the fixed-wing VTOL drone, the perspective left bottom front side view being a mirror image thereof.
 The broken lines shown in all figures illustrate portions of the fixed-wing VTOL drone that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D843,919 S * 3/2019 Tzarnotzky D12/329
10,259,563 B2 * 4/2019 Long B64C 11/02
D852,092 S * 6/2019 Woodworth D12/16.1
10,308,360 B2 * 6/2019 Sopper B65D 5/18
10,322,814 B1 * 6/2019 Tian B64D 31/00
D852,720 S * 7/2019 Zeldin D12/320
D852,825 S * 7/2019 Selwa D14/485
10,340,820 B2 * 7/2019 Woodworth B64C 39/024
2014/0158815 A1 * 6/2014 Renteria B64C 29/0025
244/12.1
2016/0236774 A1 * 8/2016 Niedzballa B64C 27/30
2017/0300067 A1 * 10/2017 Douglas B64C 29/0025
2018/0290735 A1 * 10/2018 Uptigrove B64D 35/04
2018/0297711 A1 * 10/2018 Oldroyd B64D 31/06

* cited by examiner

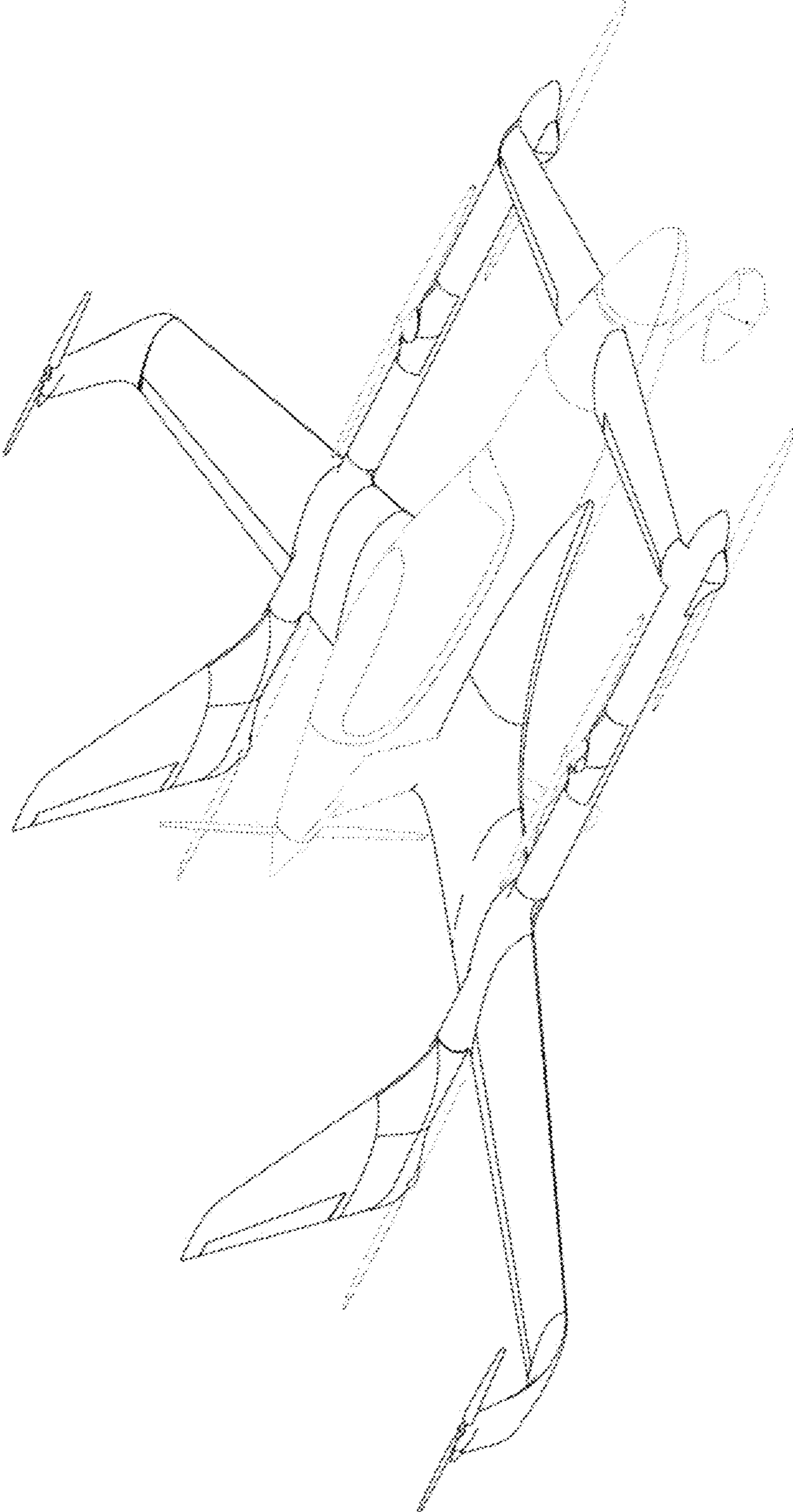


Fig. 1

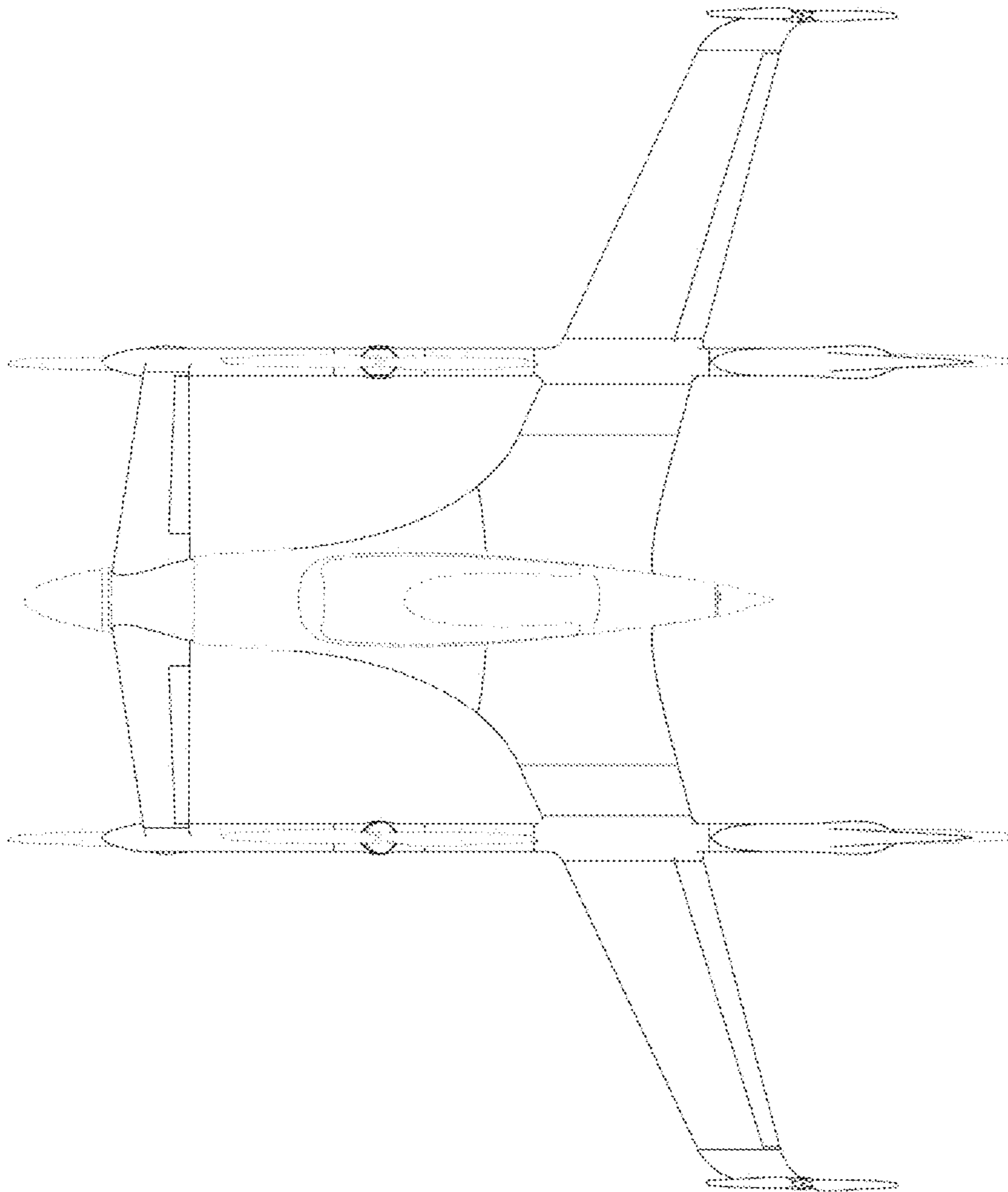


Fig. 2

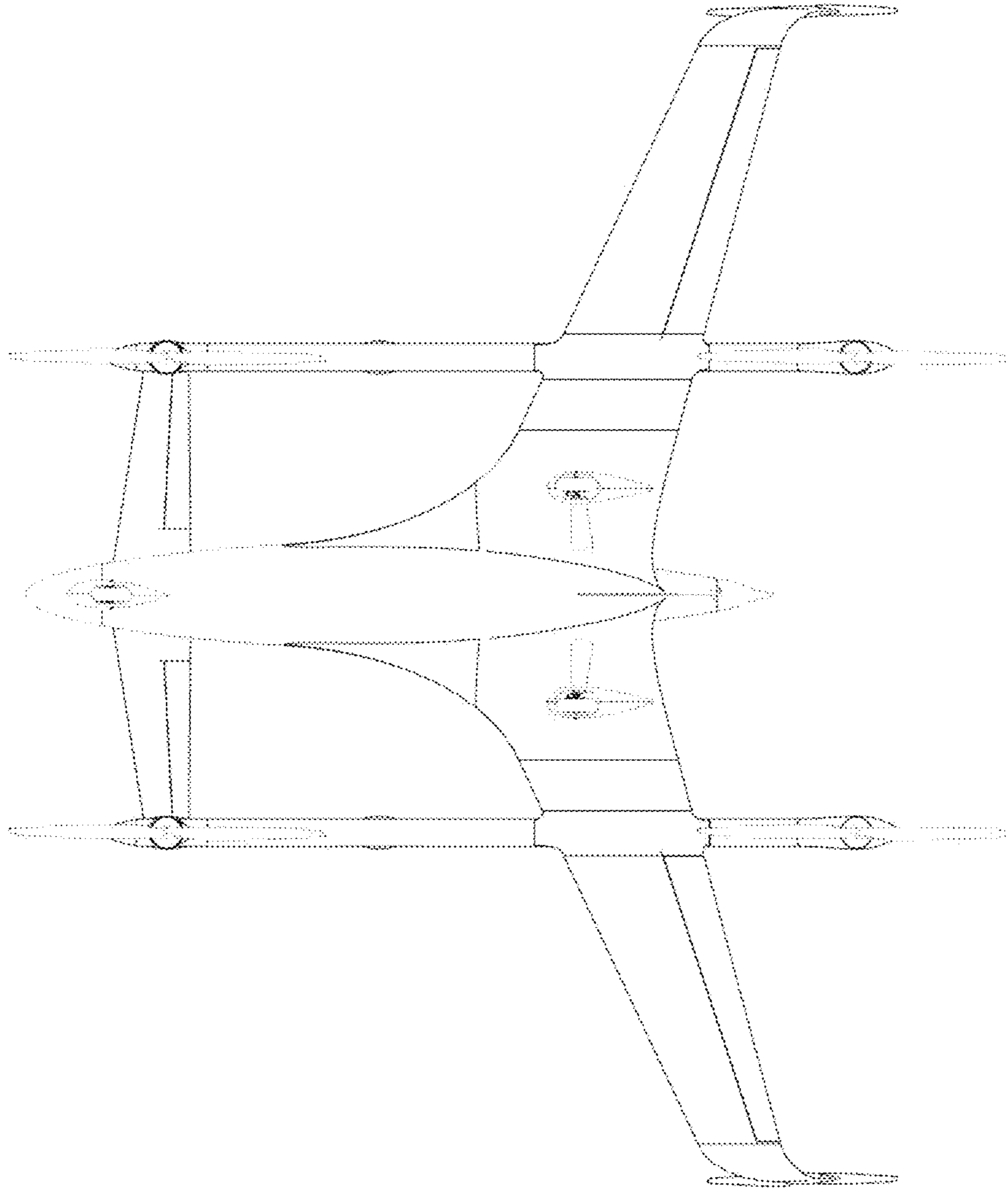


Fig. 3

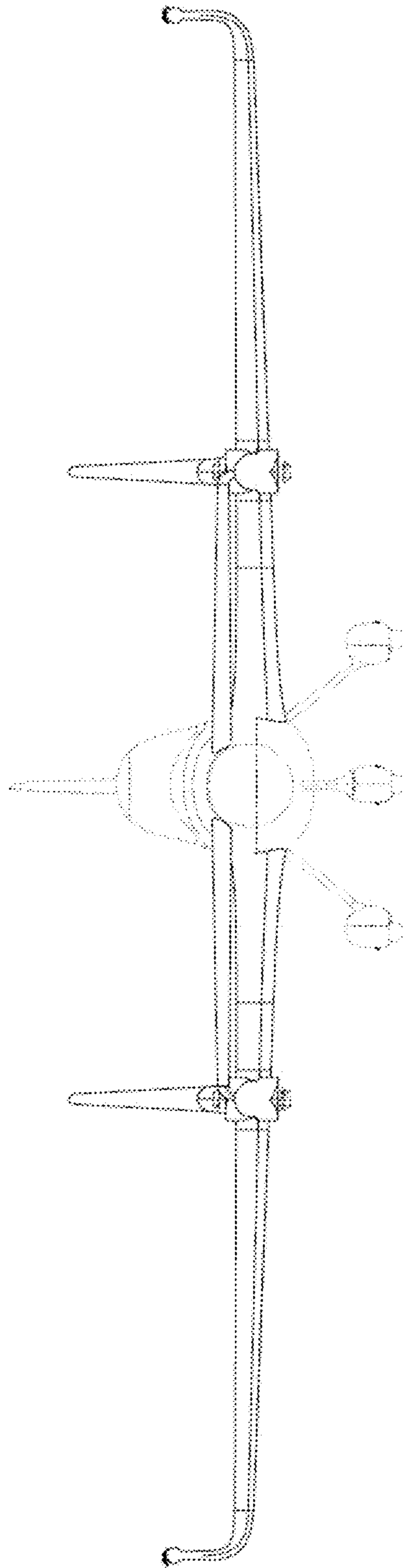


Fig. 4

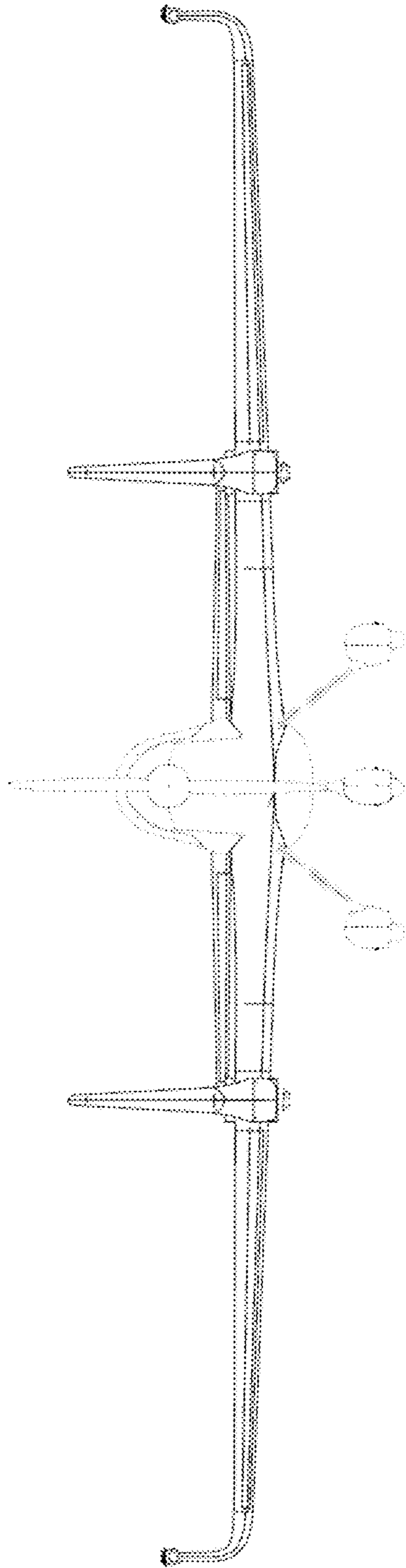


Fig. 5

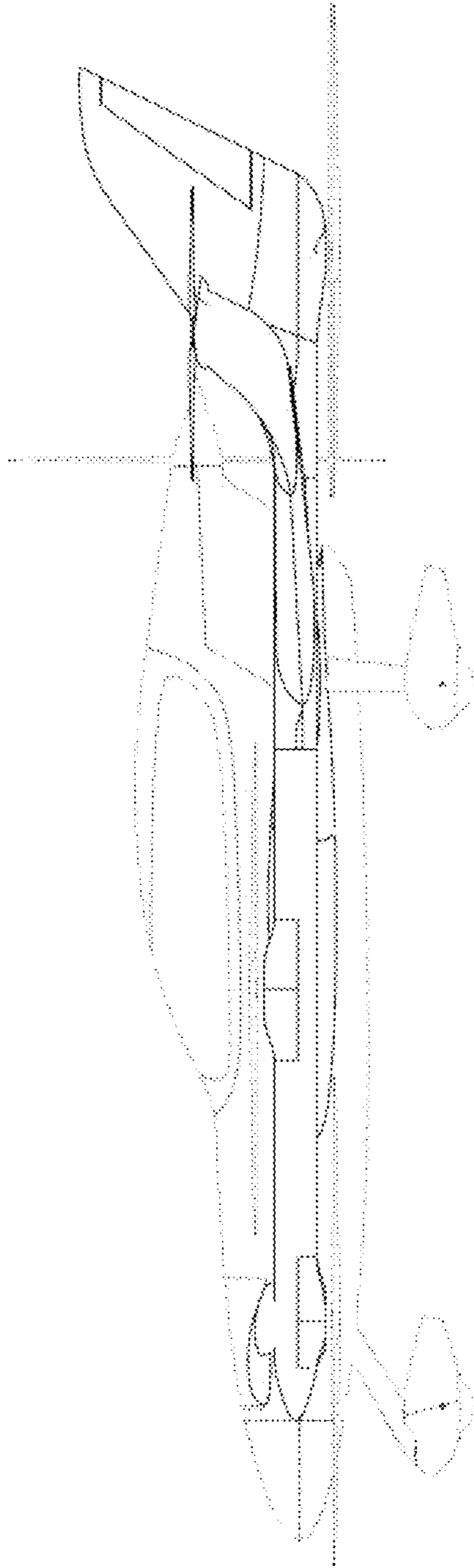


Fig. 6

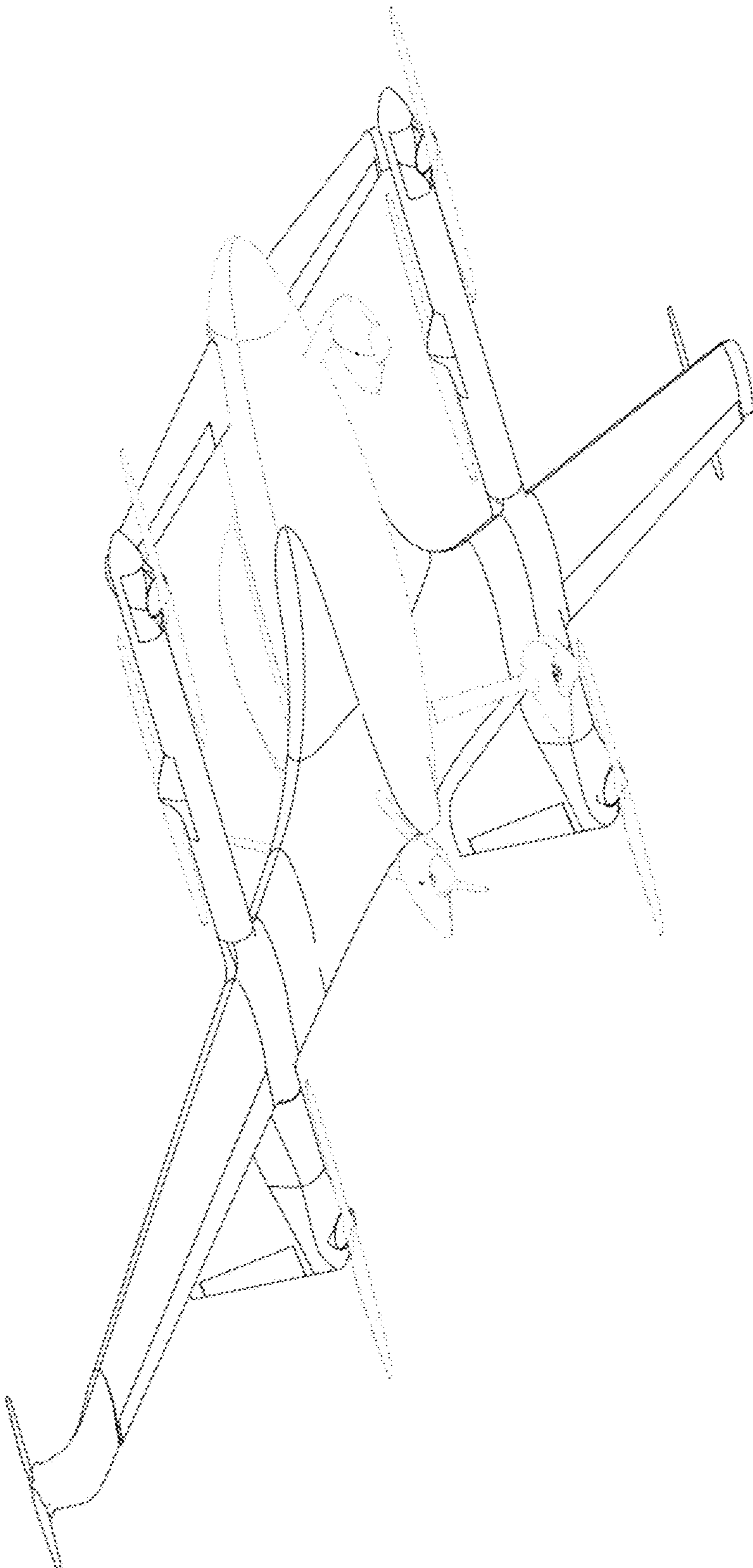


Fig. 7