



US00D739335S

(12) **United States Design Patent**
Robertson et al.

(10) **Patent No.:** **US D739,335 S**

(45) **Date of Patent:** **** Sep. 22, 2015**

- (54) **TILTROTOR AIRCRAFT WITH FORWARD-SWEPT WINGS**
- (71) Applicant: **Bell Helicopter Textron Inc.**, Fort Worth, TX (US)
- (72) Inventors: **Daniel Robertson**, Southlake, TX (US); **Berlin Benfield**, Grapevine, TX (US); **Cory Hitte**, Fort Worth, TX (US); **Kirk Groninga**, Keller, TX (US)
- (73) Assignee: **Bell Helicopter Textron Inc.**, Fort Worth, TX (US)
- (**) Term: **14 Years**
- (21) Appl. No.: **29/470,694**
- (22) Filed: **Oct. 24, 2013**
- (51) **LOC (10) Cl.** **12-07**
- (52) **U.S. Cl.**
USPC **D12/345**
- (58) **Field of Classification Search**
USPC D12/16.1, 319-345; D21/441, 442, D21/447, 450, 453
CPC B64C 29/00; B64C 29/0033; B64C 29/02; B64C 27/00; B64C 27/008; B64C 27/04; B64C 27/08; B64C 27/10; B64C 27/22; B64C 7/00; B64C 7/02; B64C 11/48
See application file for complete search history.

- 5,352,090 A * 10/1994 Churchill et al. 416/61
- 5,381,985 A * 1/1995 Wechsler et al. 244/7 C
- 5,405,105 A * 4/1995 Kress 244/7 C
- D394,422 S * 5/1998 Magee D12/328
- D401,898 S * 12/1998 Lauder et al. D12/326
- 6,260,793 B1 * 7/2001 Balayn et al. 244/7 R
- 6,328,256 B1 * 12/2001 Ryan et al. 244/7 R
- 2008/0308682 A1 * 12/2008 Builta et al. 244/182
- 2012/0043412 A1 * 2/2012 Brunken 244/6

* cited by examiner

Primary Examiner — Martie K Holtje

(74) *Attorney, Agent, or Firm* — Bell Helicopter Textron Inc.

(57) **CLAIM**

The ornamental design for a tiltrotor aircraft with forward-swept wings, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a tiltrotor aircraft with forward-swept wings with the rotor nacelles facing upward; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a right-side elevational view thereof; FIG. 5 is a left-side elevational view thereof; FIG. 6 is a top plan view thereof; FIG. 7 is a bottom plan view thereof; FIG. 8 is a front perspective view of a tiltrotor aircraft with forward-swept wings with the rotor nacelles facing forward; FIG. 9 is a front elevational view of FIG. 8; FIG. 10 is a rear elevational view of FIG. 8; FIG. 11 is a right-side elevational view of FIG. 8; FIG. 12 is a left-side elevational view of FIG. 8; FIG. 13 is a top plan view of FIG. 8; and, FIG. 14 is a bottom plan view of FIG. 8.

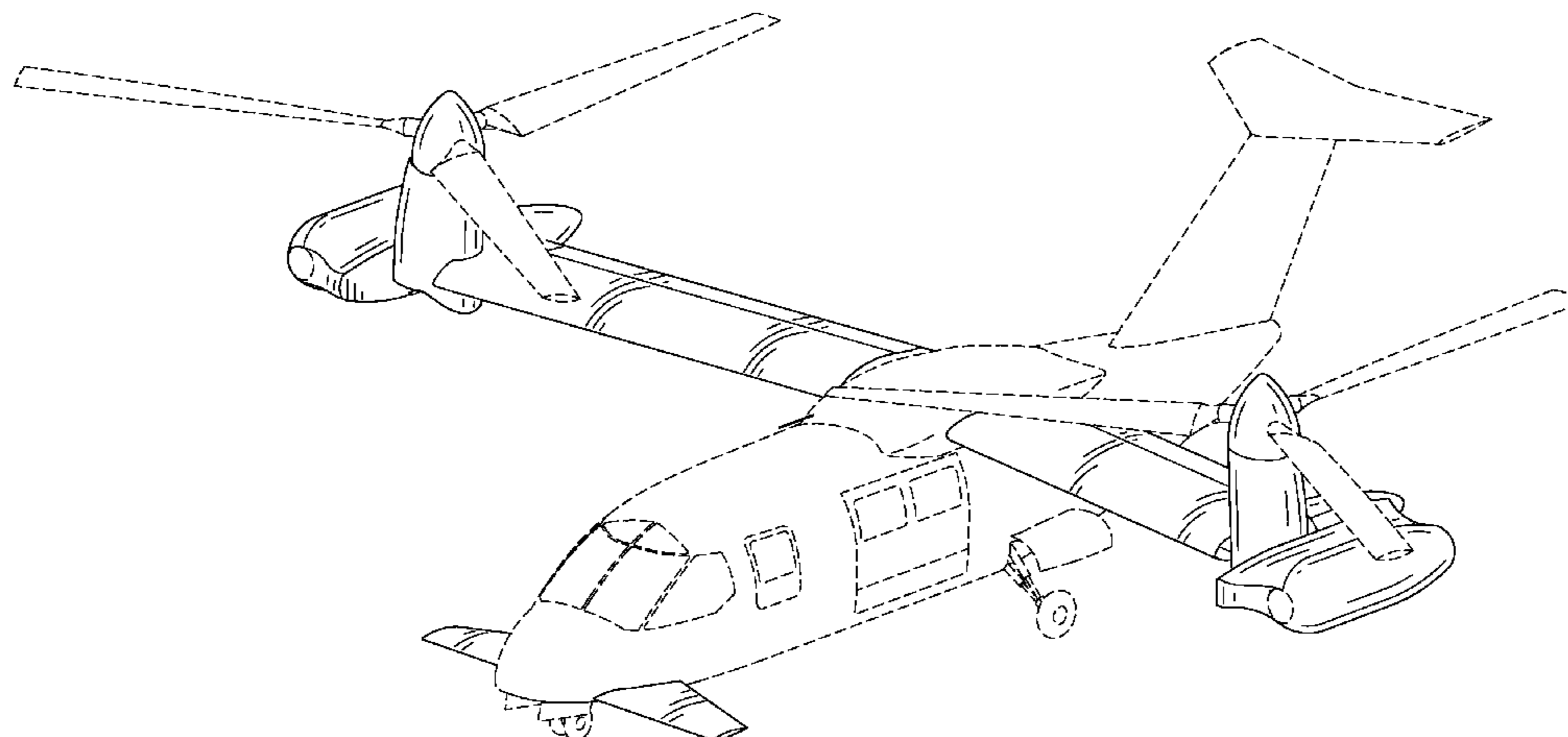
The tiltrotor aircraft depicted by broken lines in the drawings has been shown for the purpose of illustrating environment that forms no part of the claimed design.

1 Claim, 11 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,035,789 A * 5/1962 Young 244/7 C
- D226,826 S * 5/1973 Wernicke D12/326
- D311,719 S * 10/1990 Haga D12/328
- 5,054,716 A * 10/1991 Wilson 244/56
- D323,315 S * 1/1992 Haga D12/331
- 5,096,140 A * 3/1992 Dornier et al. 244/7 C
- D332,079 S * 12/1992 Haga et al. D12/331



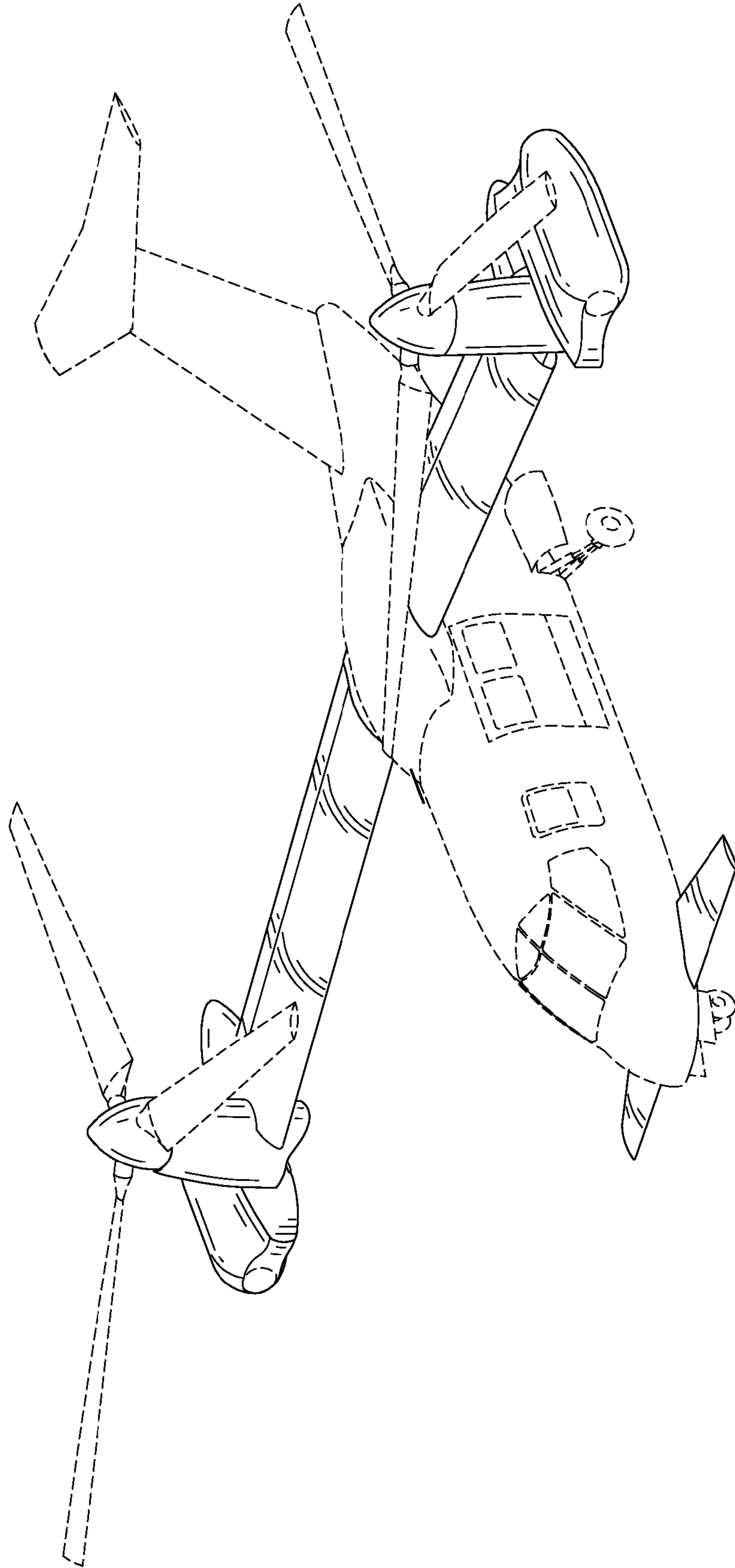


FIG. 1

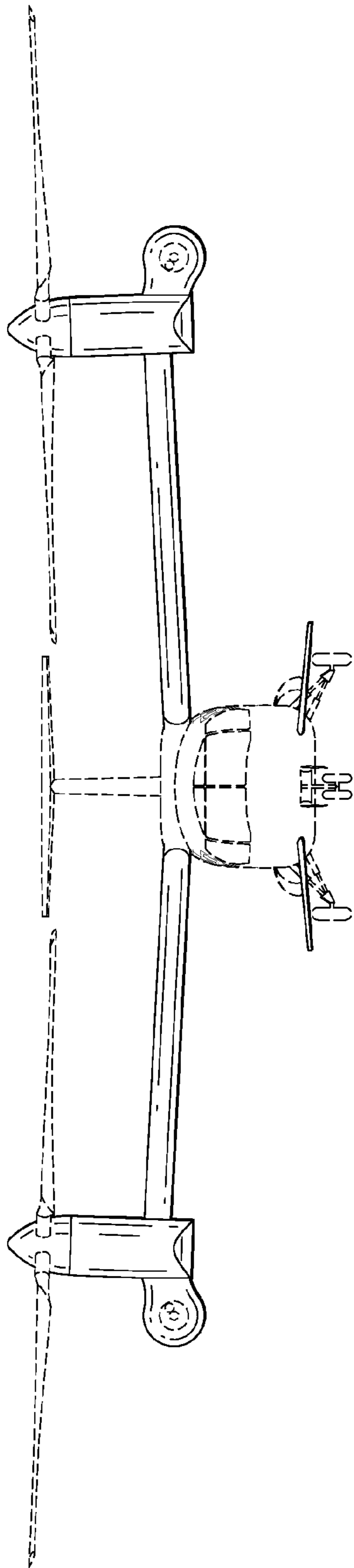


FIG. 2

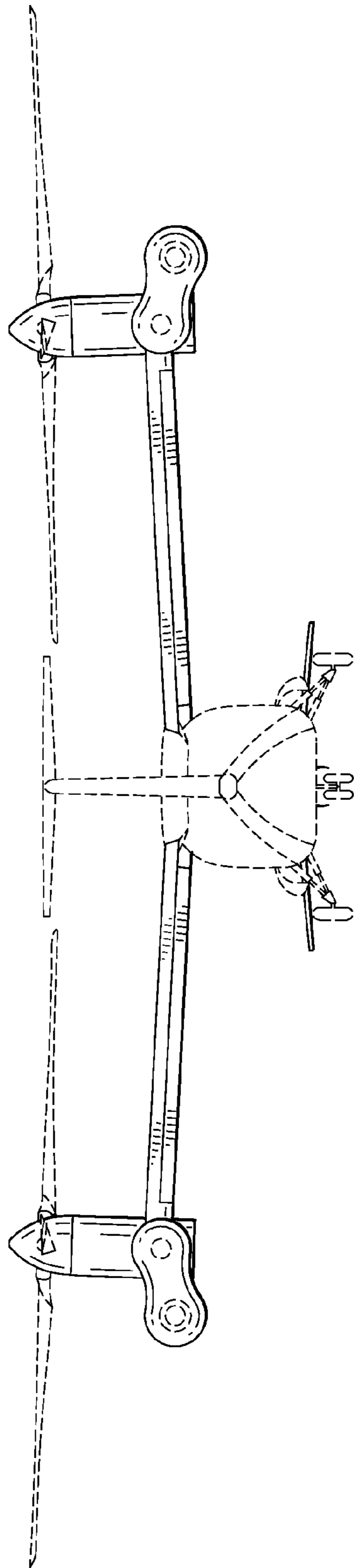


FIG. 3

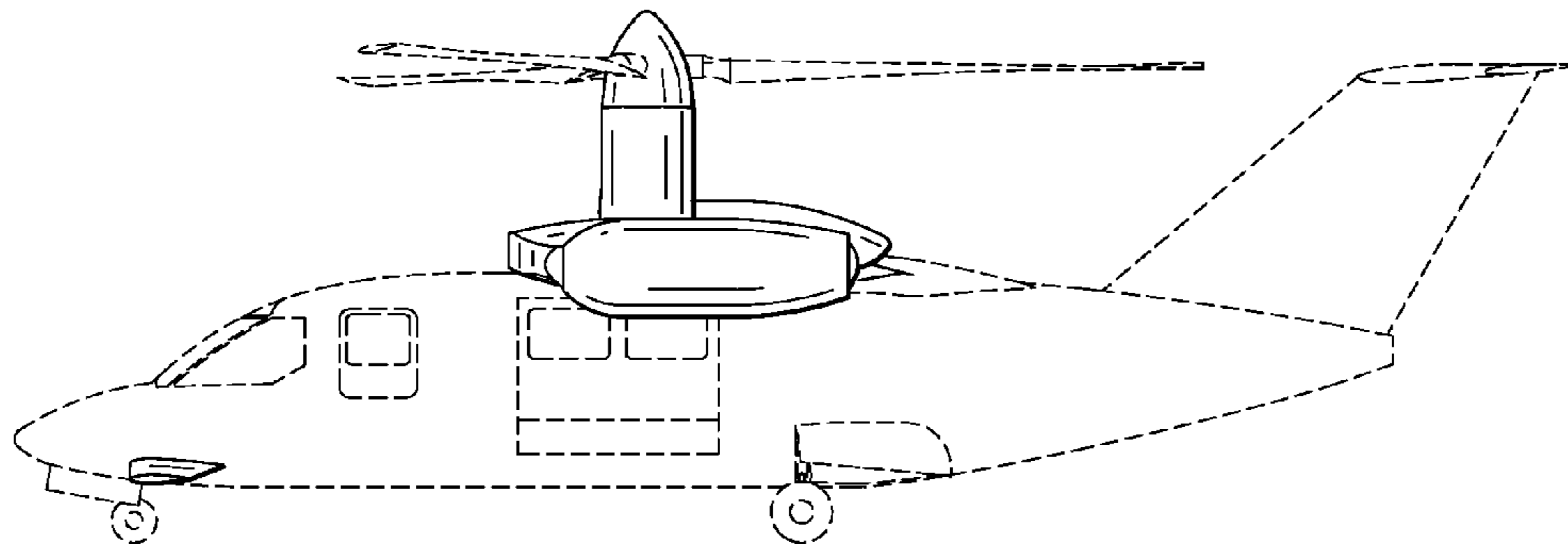


FIG. 4

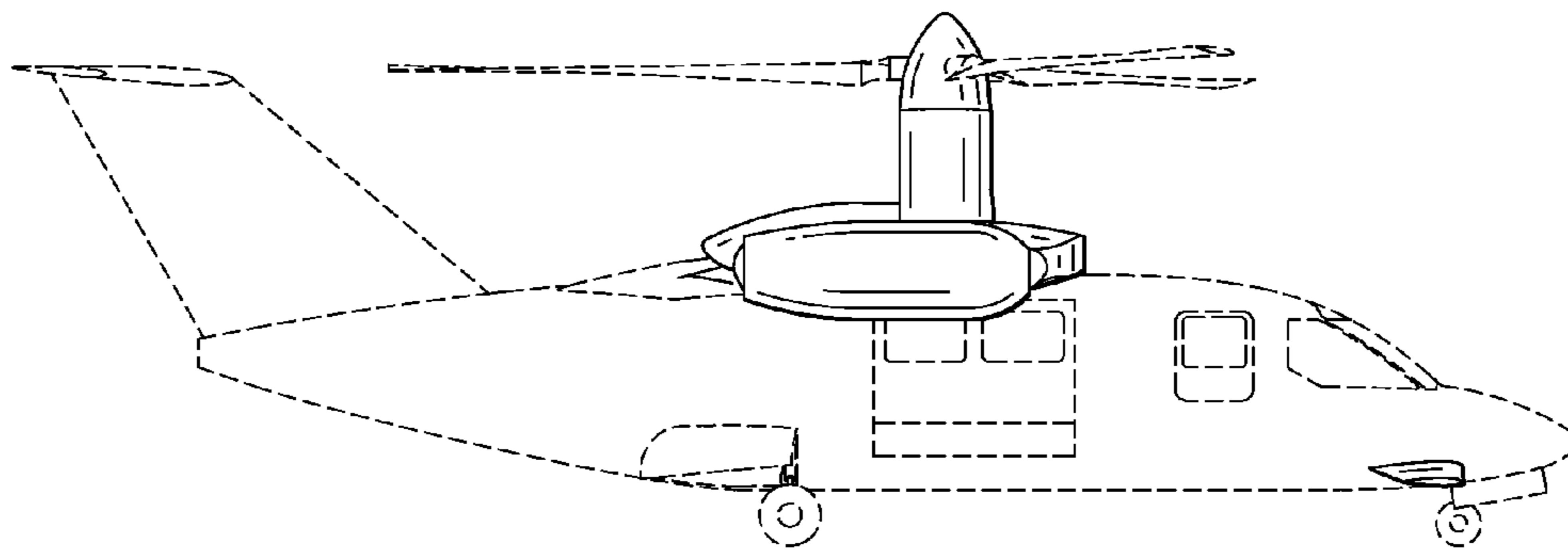


FIG. 5

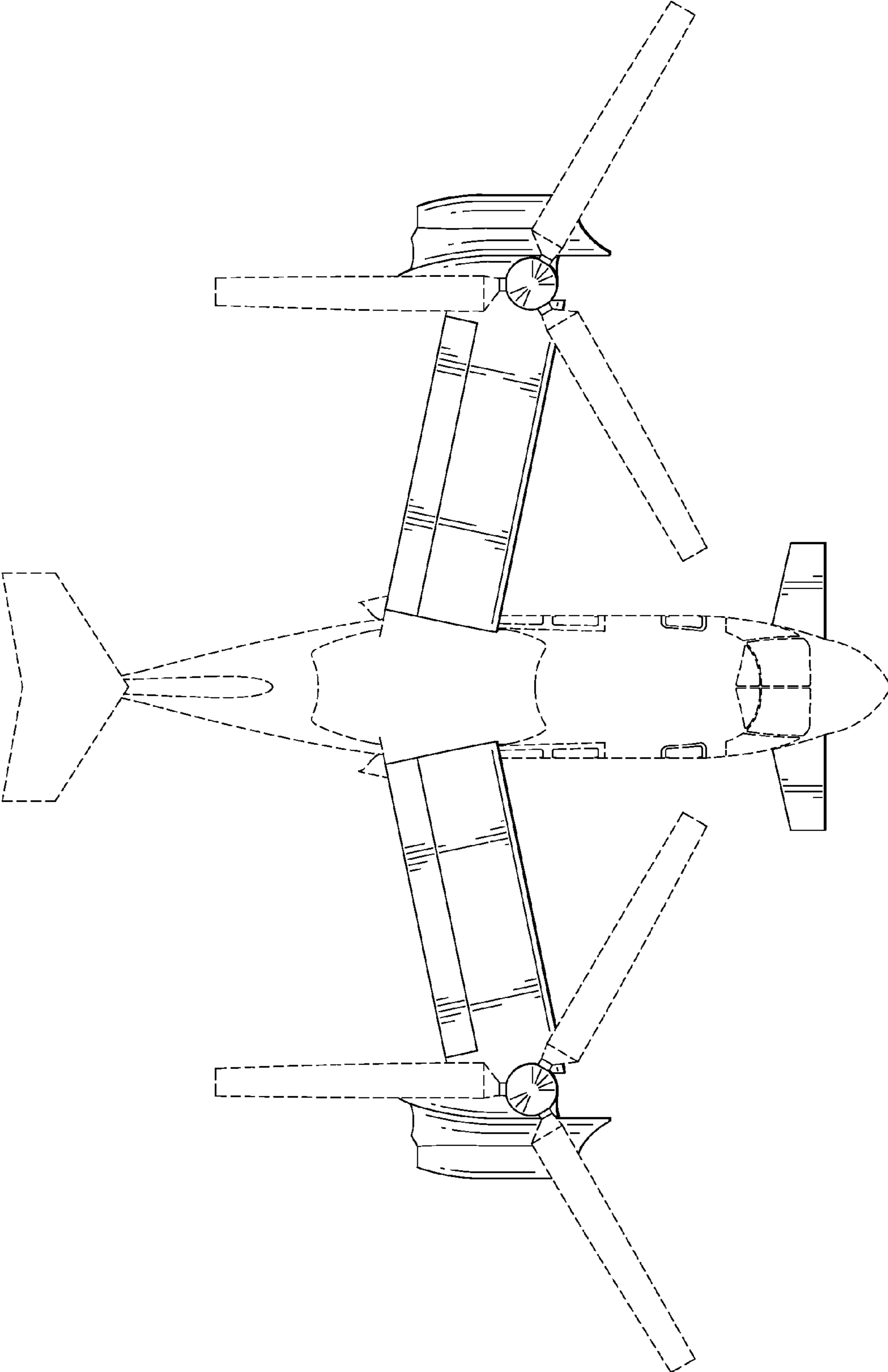


FIG. 6

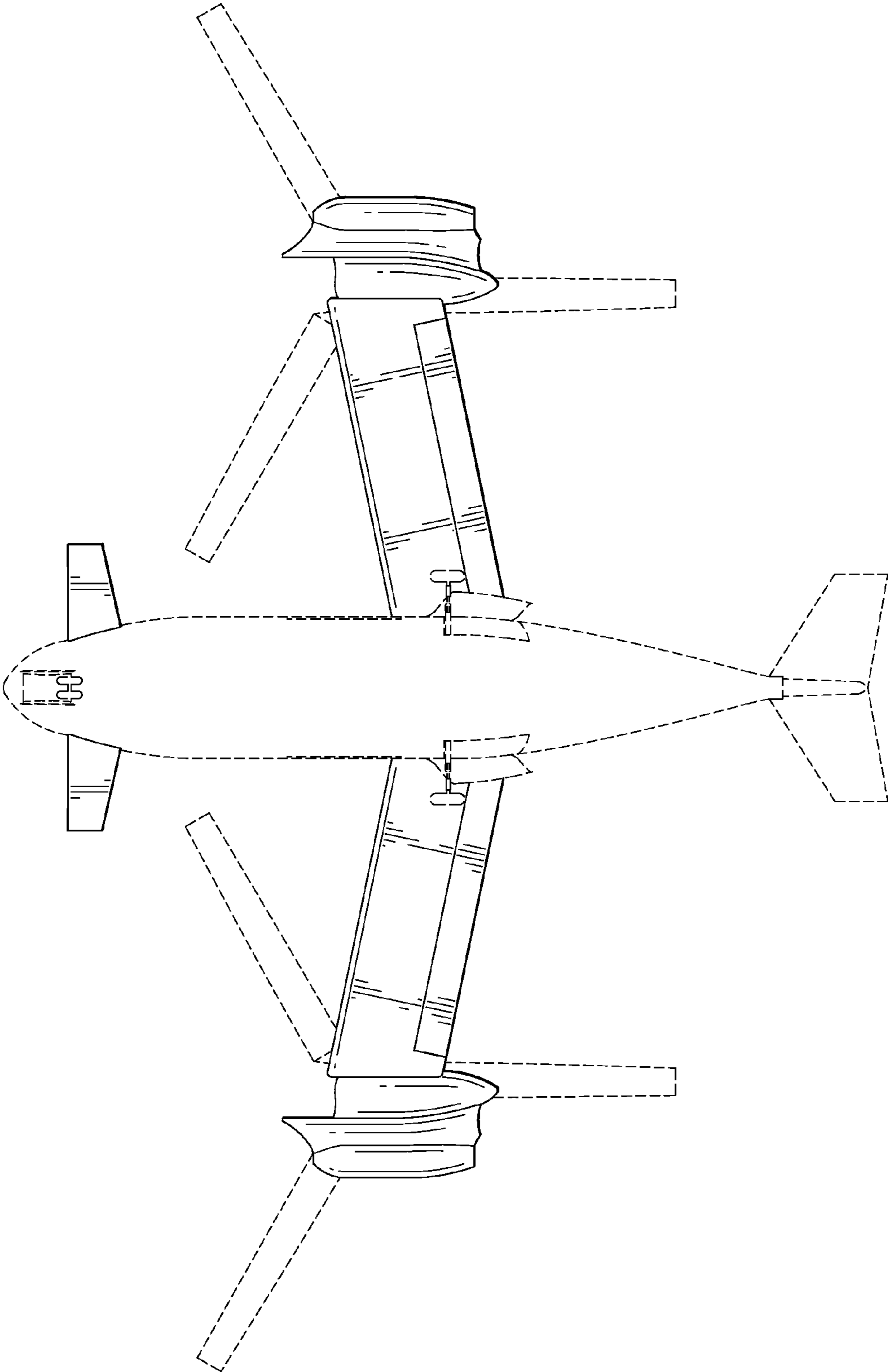


FIG. 7

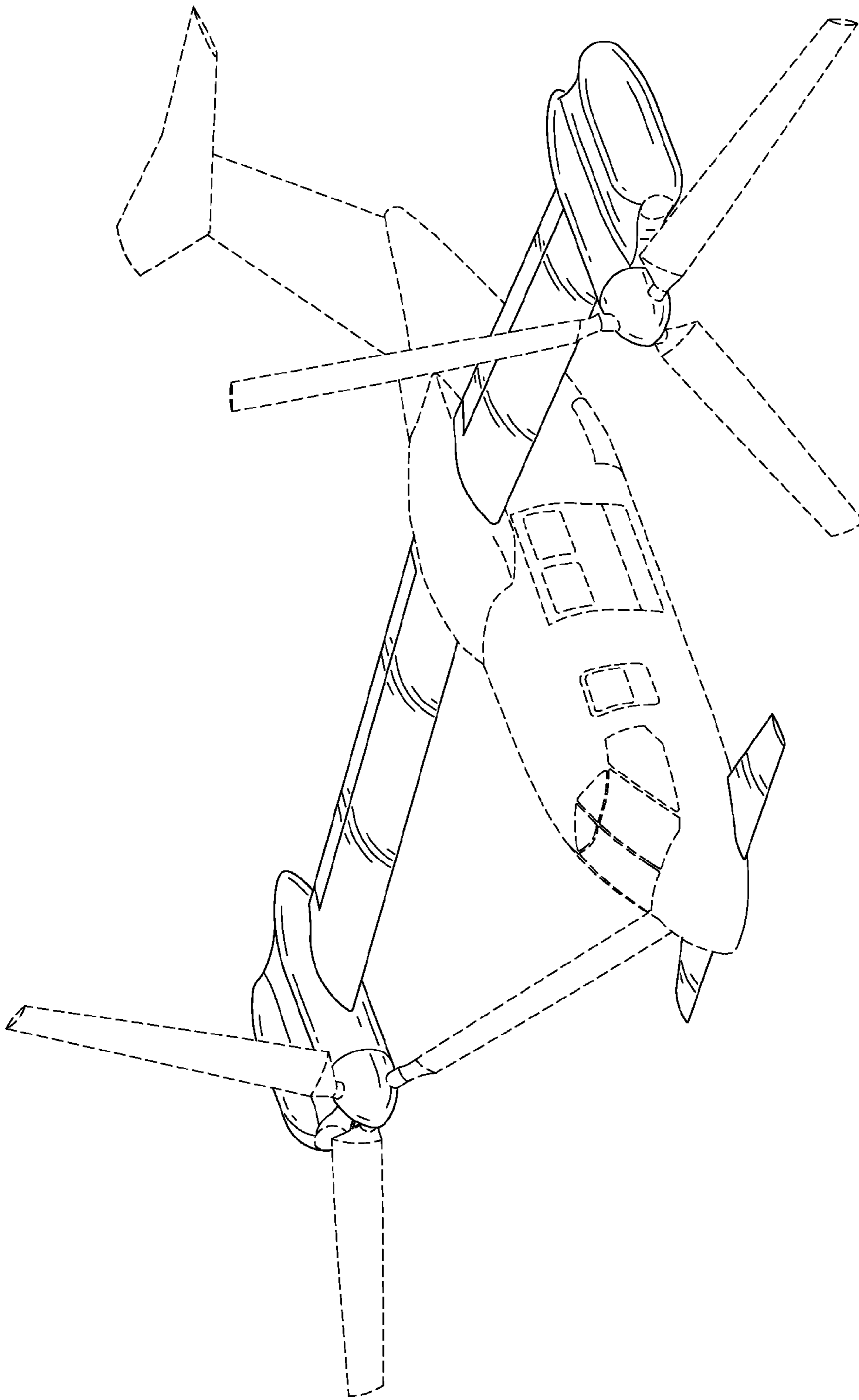


FIG. 8

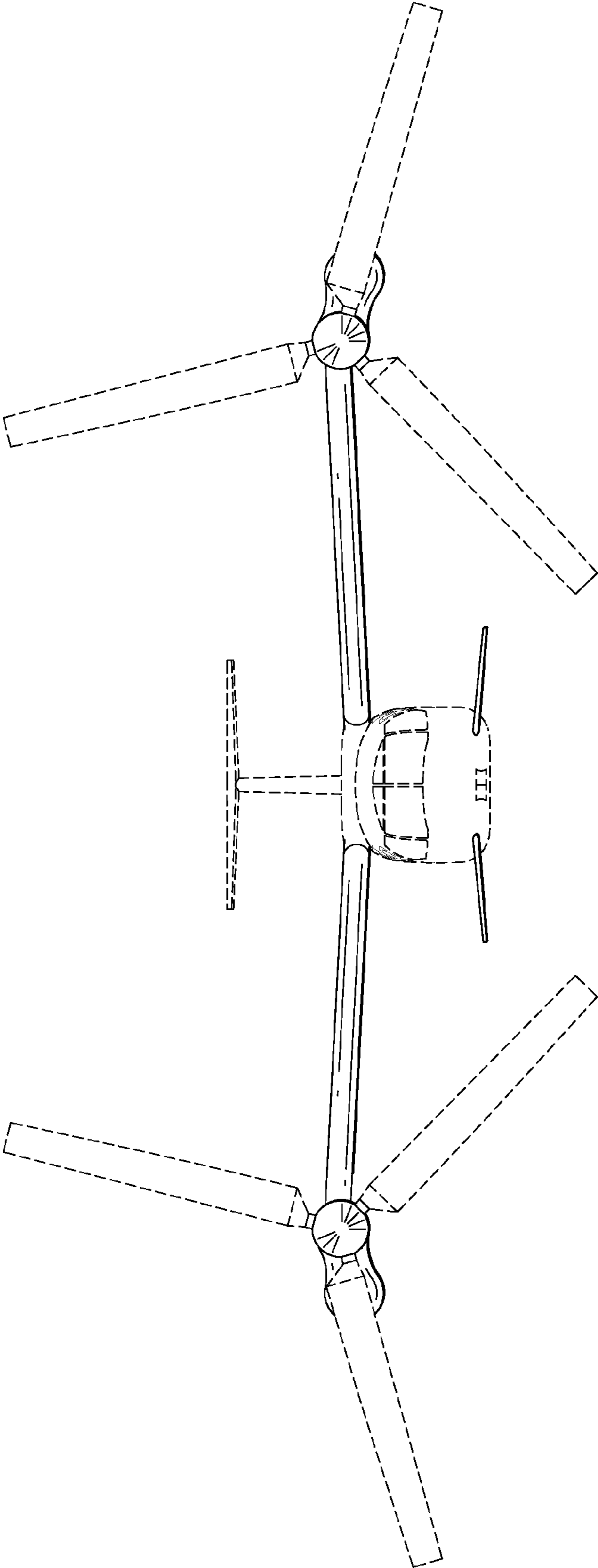


FIG. 9

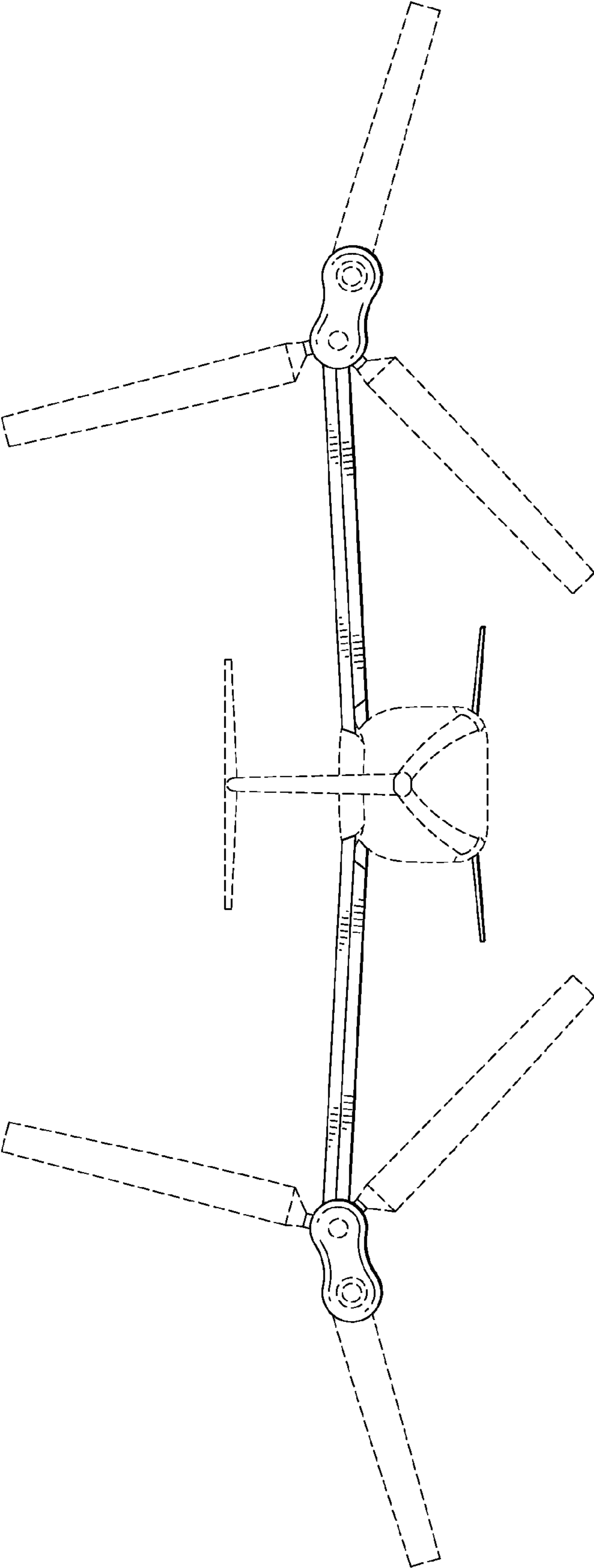


FIG. 10

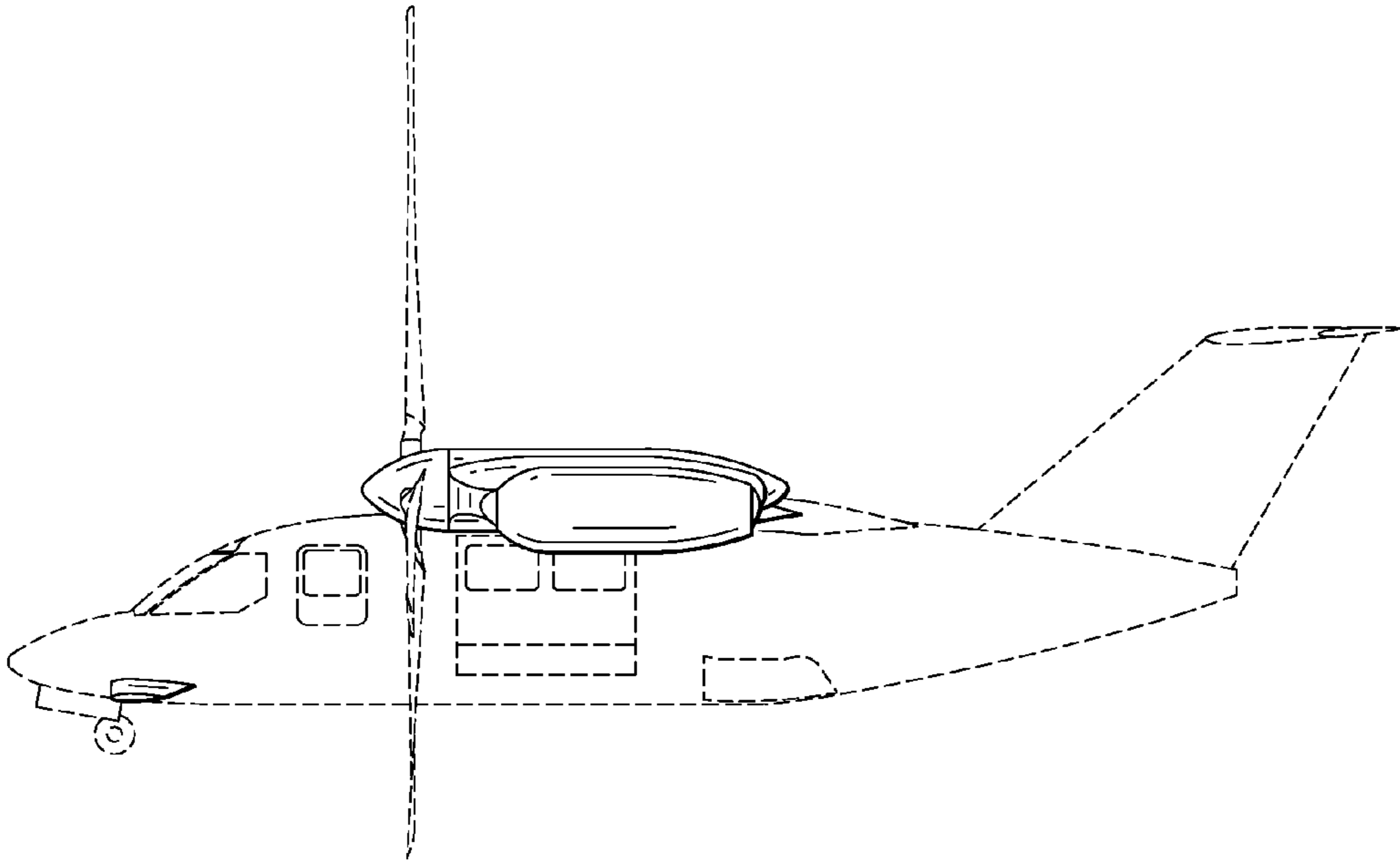


FIG. 11

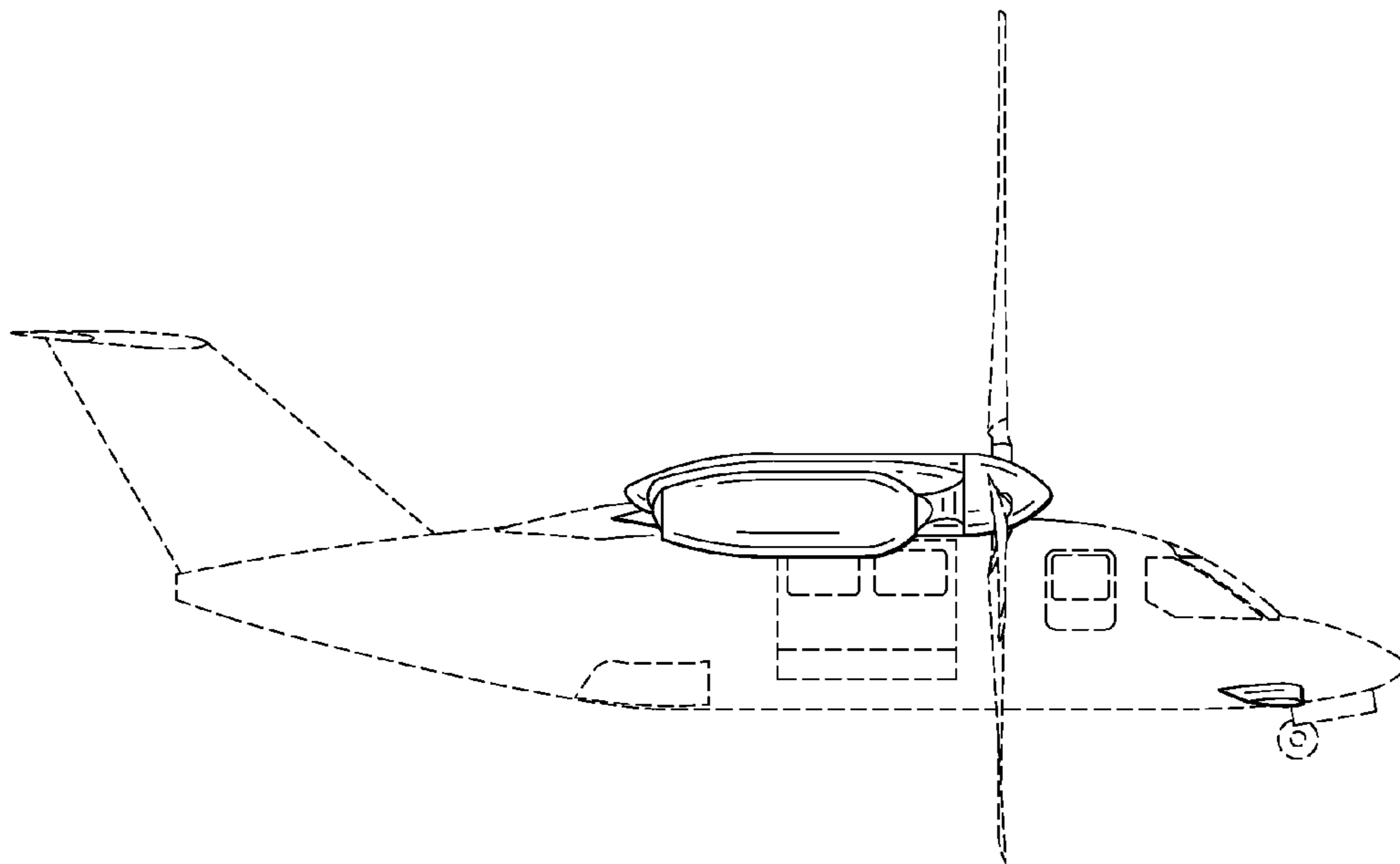


FIG. 12

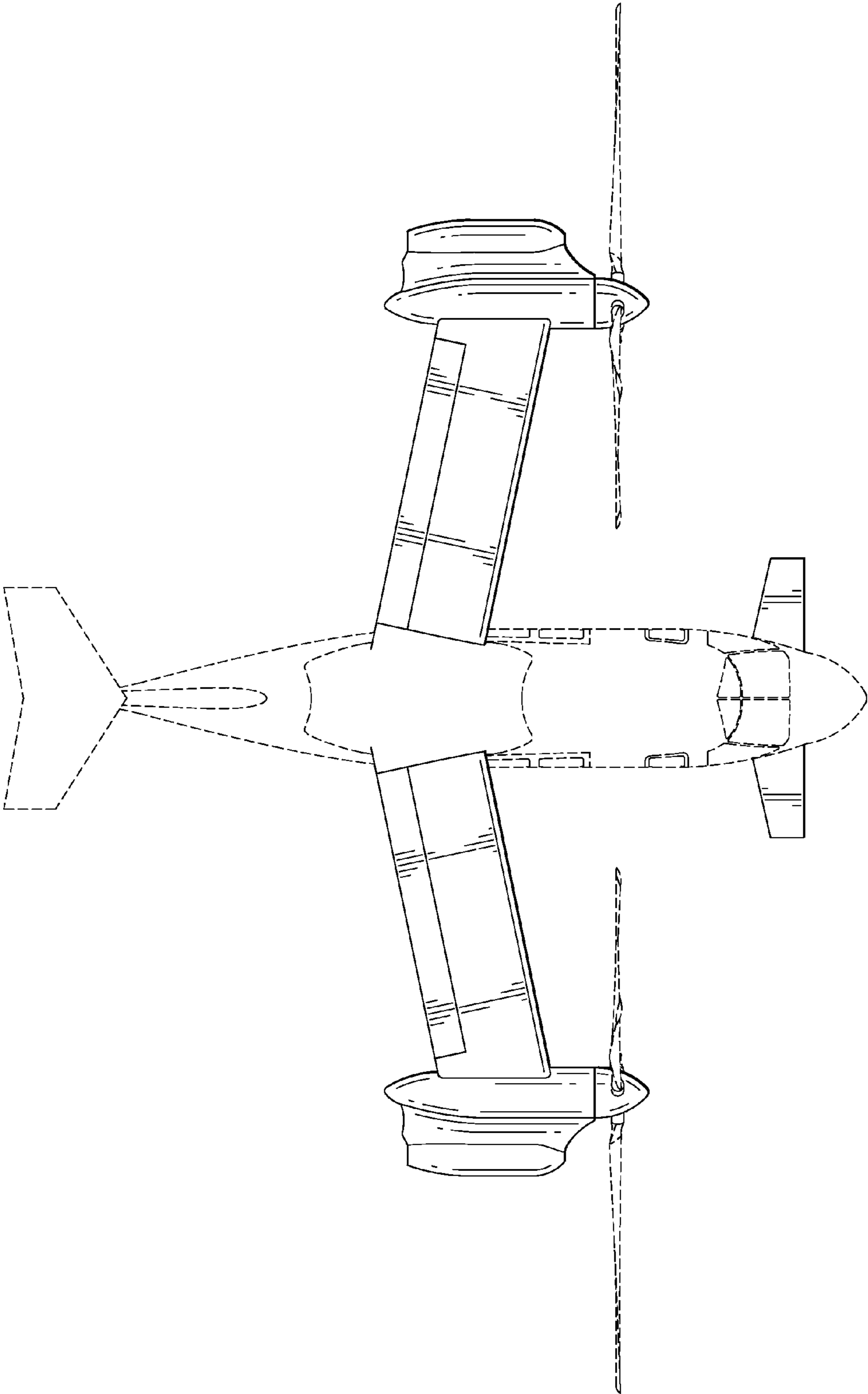


FIG. 13

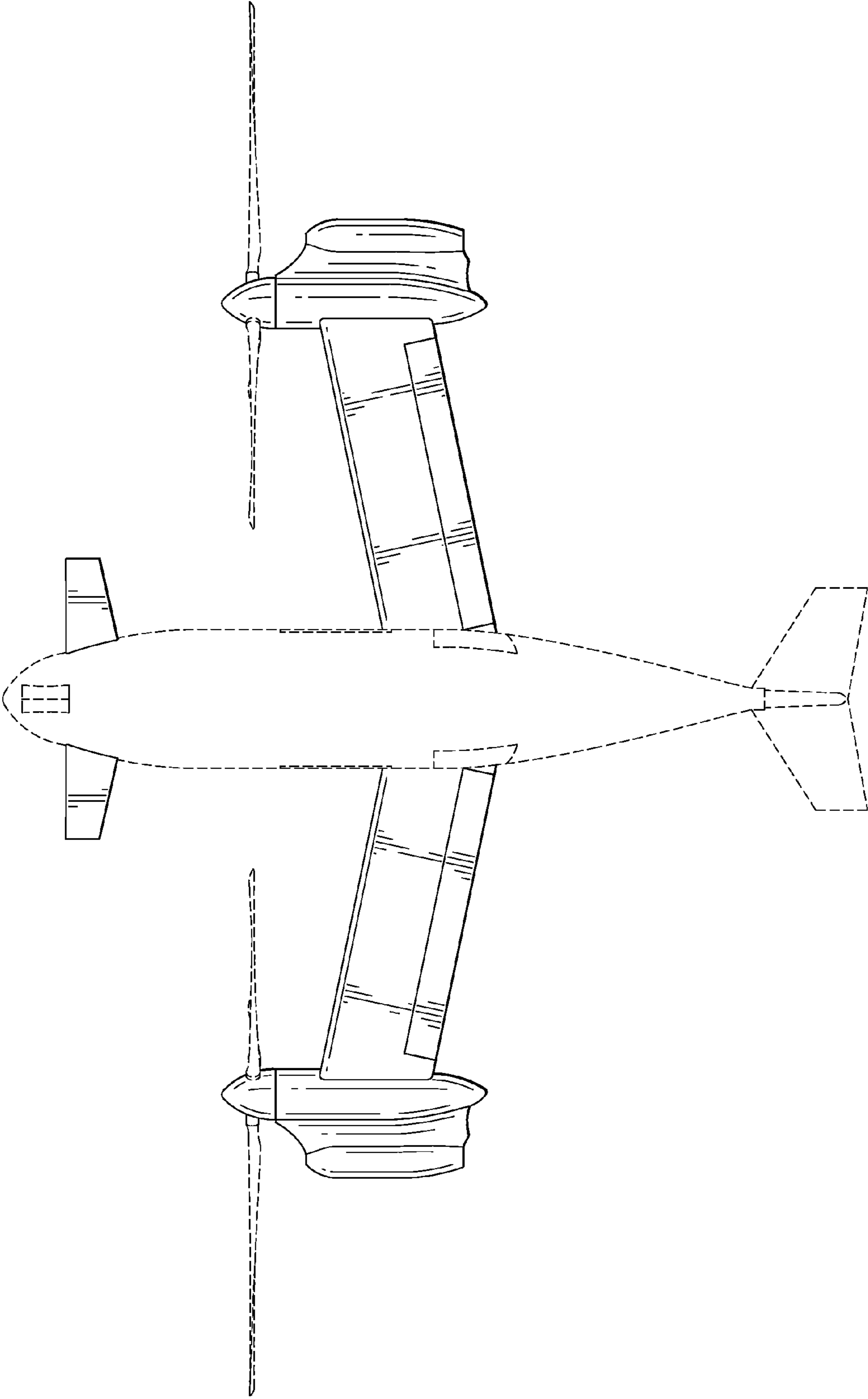


FIG. 14