



US00D817812S

(12) **United States Design Patent**
Whitten, Jr.

(10) **Patent No.:** **US D817,812 S**
(45) **Date of Patent:** **** May 15, 2018**

- (54) **UNMANNED AERIAL VEHICLE**
- (71) Applicant: **Advanced Aerial Services, LLC,**
Woodward, OK (US)
- (72) Inventor: **Donald Lee Whitten, Jr.,** Woodward,
OK (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/582,776**
- (22) Filed: **Oct. 31, 2016**
- (51) **LOC (11) Cl.** **12-07**
- (52) **U.S. Cl.**
USPC **D12/16.1**
- (58) **Field of Classification Search**
USPC D12/3, 16.1, 319-345; D21/436-455
CPC B64C 39/024; B64C 2201/108
See application file for complete search history.

- D500,008 S * 12/2004 Bulaga D12/345
 - 6,848,649 B2 2/2005 Churchman
 - D516,994 S * 3/2006 Houck, II D12/319
 - D526,951 S * 8/2006 Houck, II D12/319
 - D541,206 S * 4/2007 Brunner D12/325
- (Continued)

OTHER PUBLICATIONS

Scott, Robert C. et al., "Aeroservoelastic Wind-Tunnel Tests of a Free-Flying, Joined-Wing SensorCraft Model for Gust Load Alleviation," 52nd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, 36 pages, Apr. 4-7, 2011.

Primary Examiner — Robert M. Spear
Assistant Examiner — Marissa J Cash
(74) *Attorney, Agent, or Firm* — Perkins Coie LLP

(57) **CLAIM**

The ornamental design for an unmanned aerial vehicle, as shown.

(56) **References Cited**

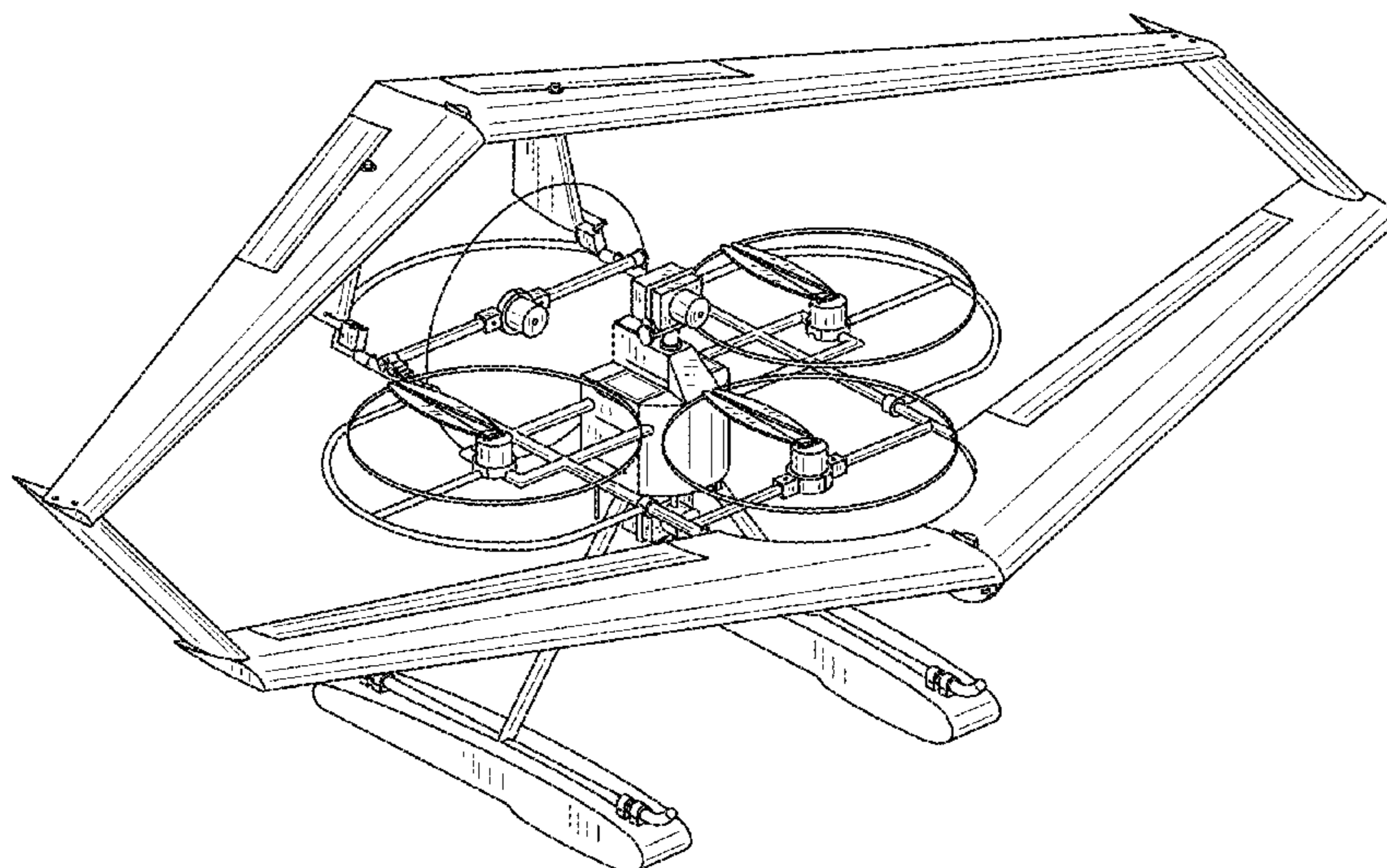
U.S. PATENT DOCUMENTS

- D193,452 S * 8/1962 Rellis D12/330
- D194,765 S * 3/1963 Sudrow 244/23 R
- D196,157 S * 8/1963 Petry D12/330
- 3,350,035 A 10/1967 Schlieben
- 4,146,199 A 3/1979 Wenzel
- D275,021 S * 8/1984 Brzack D21/453
- D292,203 S * 10/1987 Ligeti D12/319
- D292,910 S * 11/1987 McGiboney D12/331
- D292,911 S * 11/1987 Argondezzi D12/345
- 4,784,351 A 11/1988 Eickmann
- D304,821 S * 11/1989 Ratony D12/319
- D308,043 S * 5/1990 Butler D12/331
- D311,720 S * 10/1990 Butler D12/331
- 5,046,684 A 9/1991 Wolkovitch
- D418,805 S * 1/2000 Cycon 244/12.3
- D445,086 S * 7/2001 Moshier D12/319
- D454,109 S * 3/2002 Moshier D12/319
- D486,775 S * 2/2004 Reinhard D12/319
- D486,776 S * 2/2004 Carr D12/319
- D496,900 S * 10/2004 Bulaga D12/319

DESCRIPTION

FIG. 1 is a perspective view of an unmanned aerial vehicle.
FIG. 2 is a front plan view thereof.
FIG. 3 is a back plan view thereof.
FIG. 4 is a right view thereof.
FIG. 5 is a left view thereof.
FIG. 6 is a top view thereof.
FIG. 7 is a bottom view thereof.
FIG. 8 is a perspective view of a second embodiment of an unmanned aerial vehicle.
FIG. 9 is a front plan view thereof.
FIG. 10 is a back plan view thereof.
FIG. 11 is a right view thereof.
FIG. 12 is a left view thereof.
FIG. 13 is a top view thereof; and,
FIG. 14 is a bottom view thereof.

1 Claim, 14 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D543,928 S * 6/2007 Sanders, Jr. B64C 27/12
D12/319
D594,809 S * 6/2009 Cazals D12/345
D595,206 S * 6/2009 Cazals D12/345
D595,207 S * 6/2009 Cazals D12/345
D595,209 S * 6/2009 Cazals D12/345
D598,838 S * 8/2009 Carr D12/319
8,220,737 B2 * 7/2012 Wood B64C 29/0025
244/12.3
D665,333 S * 8/2012 Oliver D12/326
D696,618 S * 12/2013 Wang D12/326
D724,001 S * 3/2015 Garreau D12/326
D740,201 S * 10/2015 Wang D12/326
D741,751 S * 10/2015 Klaptoch D12/16.1
D751,025 S * 3/2016 Howell D12/16.1
D761,690 S * 7/2016 Friesmuth D12/16.1
D787,372 S * 5/2017 Ketcher D12/16.1
D789,248 S * 6/2017 Ketcher D12/16.1
2003/0201363 A1 * 10/2003 Carr B64C 3/46
244/74
2006/0226281 A1 * 10/2006 Walton B64C 27/20
244/17.23
2010/0200703 A1 * 8/2010 Cazals B64C 39/068
244/45 R
2010/0224721 A1 9/2010 Wood
2015/0136897 A1 5/2015 Seibel
2015/0175258 A1 * 6/2015 Lee B64C 27/08
244/17.23
2016/0129998 A1 5/2016 Traube
2017/0269609 A1 * 9/2017 Bradlow G05D 1/102
2017/0274983 A1 * 9/2017 Beckman B64C 11/48
2017/0285661 A1 * 10/2017 Harada G05D 1/101
2017/0300067 A1 * 10/2017 Douglas G05D 1/0858

* cited by examiner

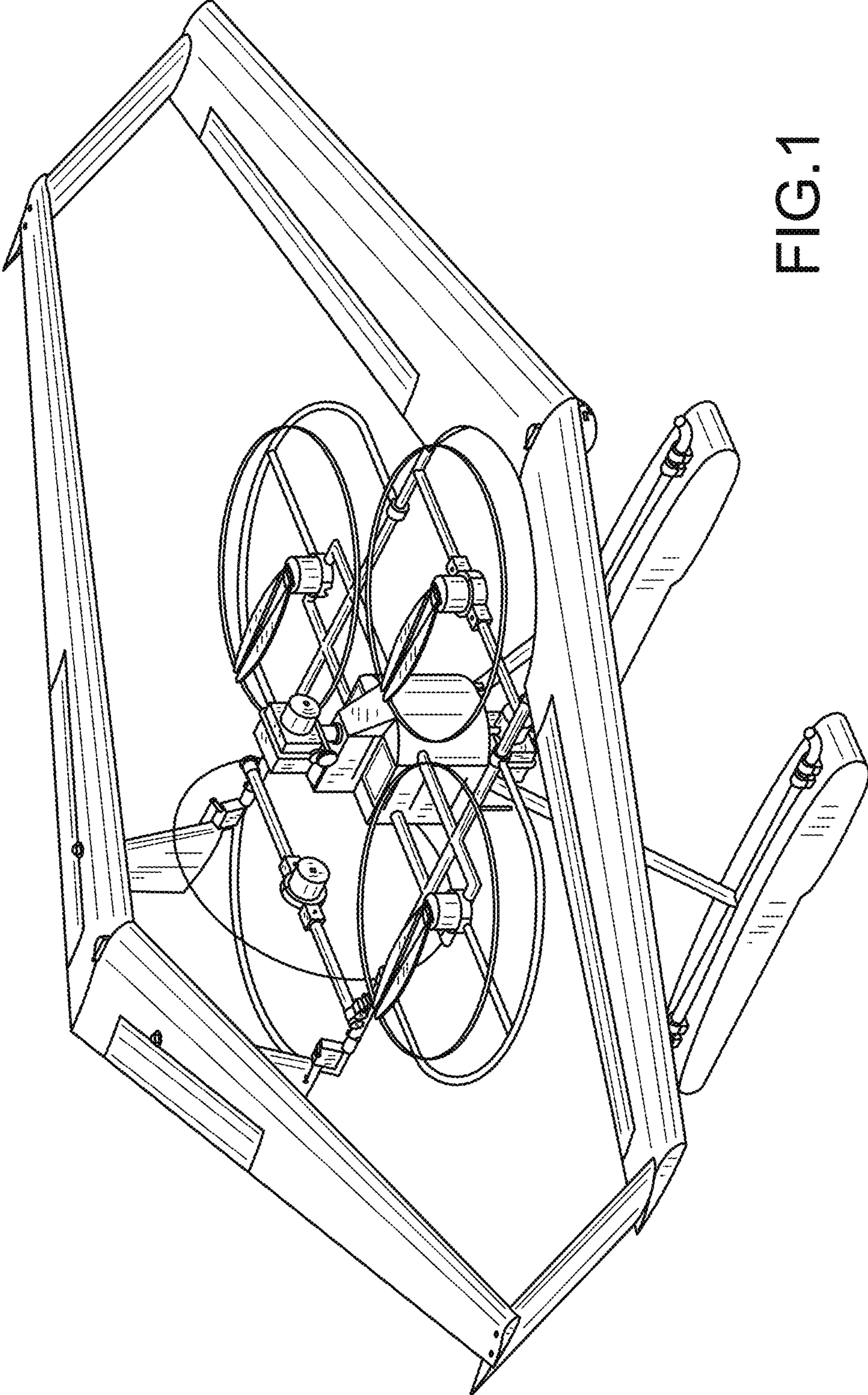


FIG.1

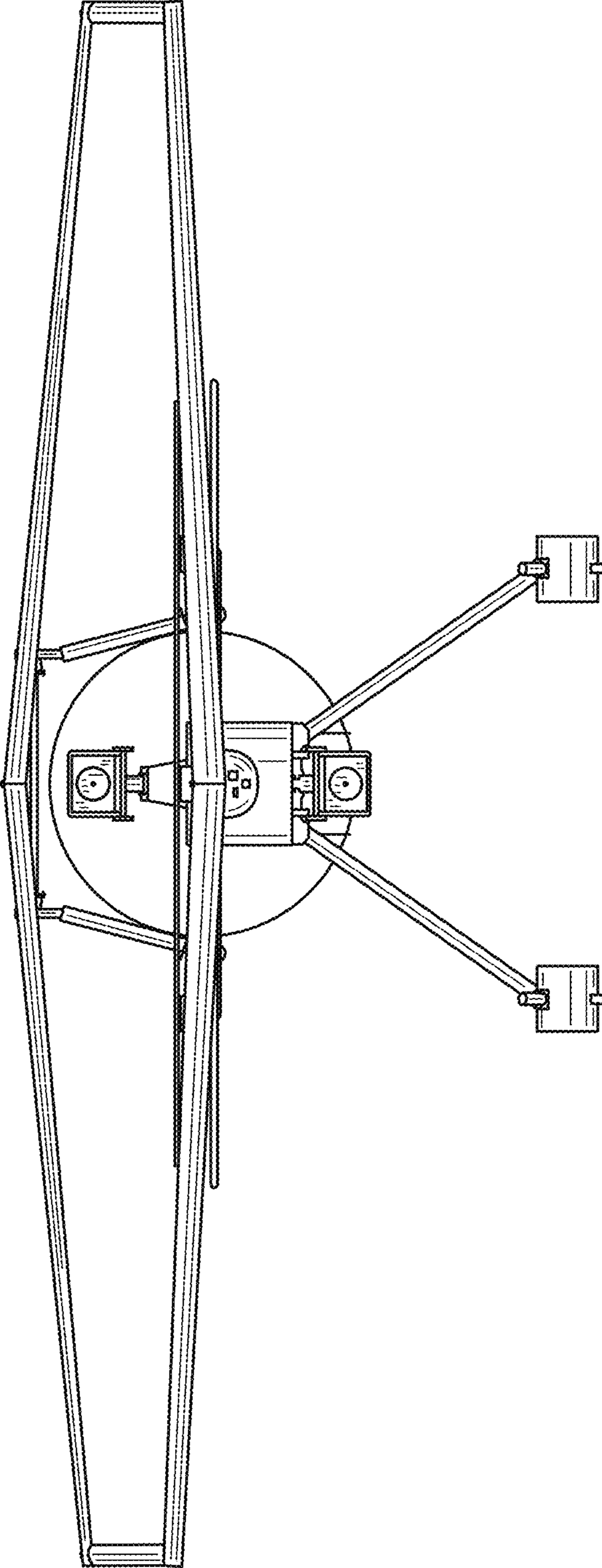


FIG.2

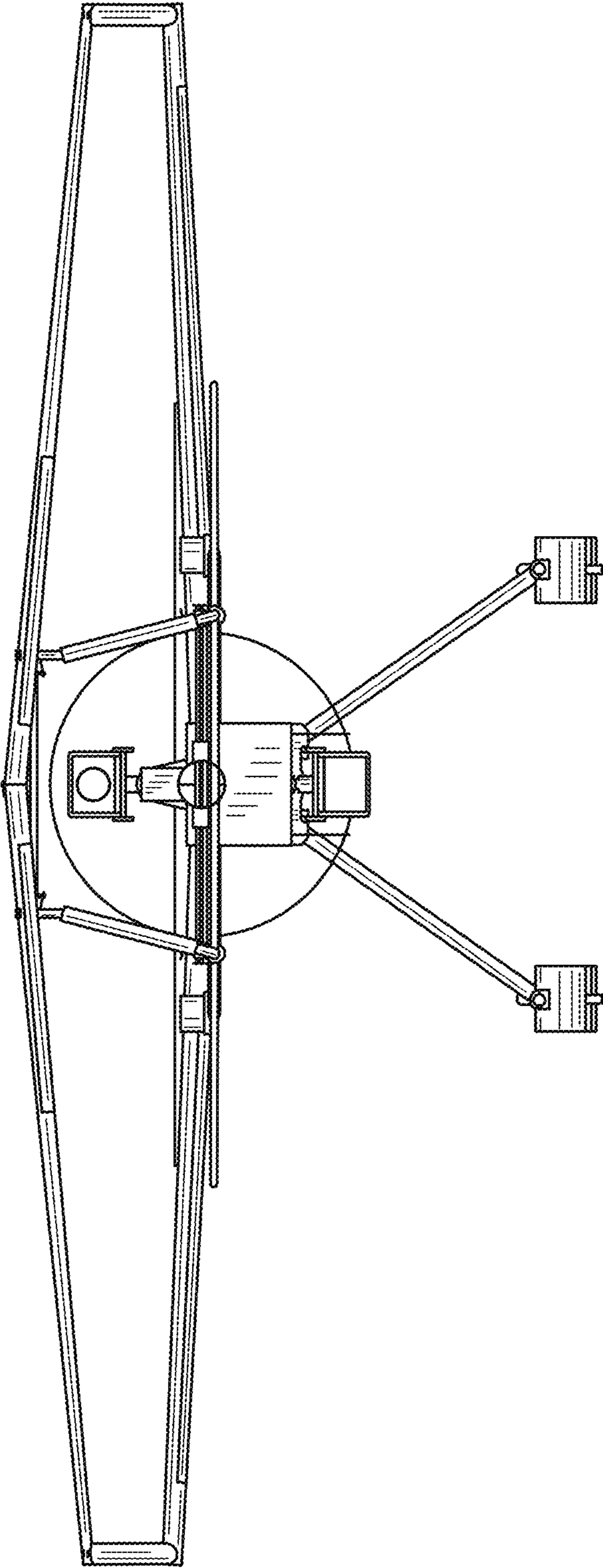


FIG.3

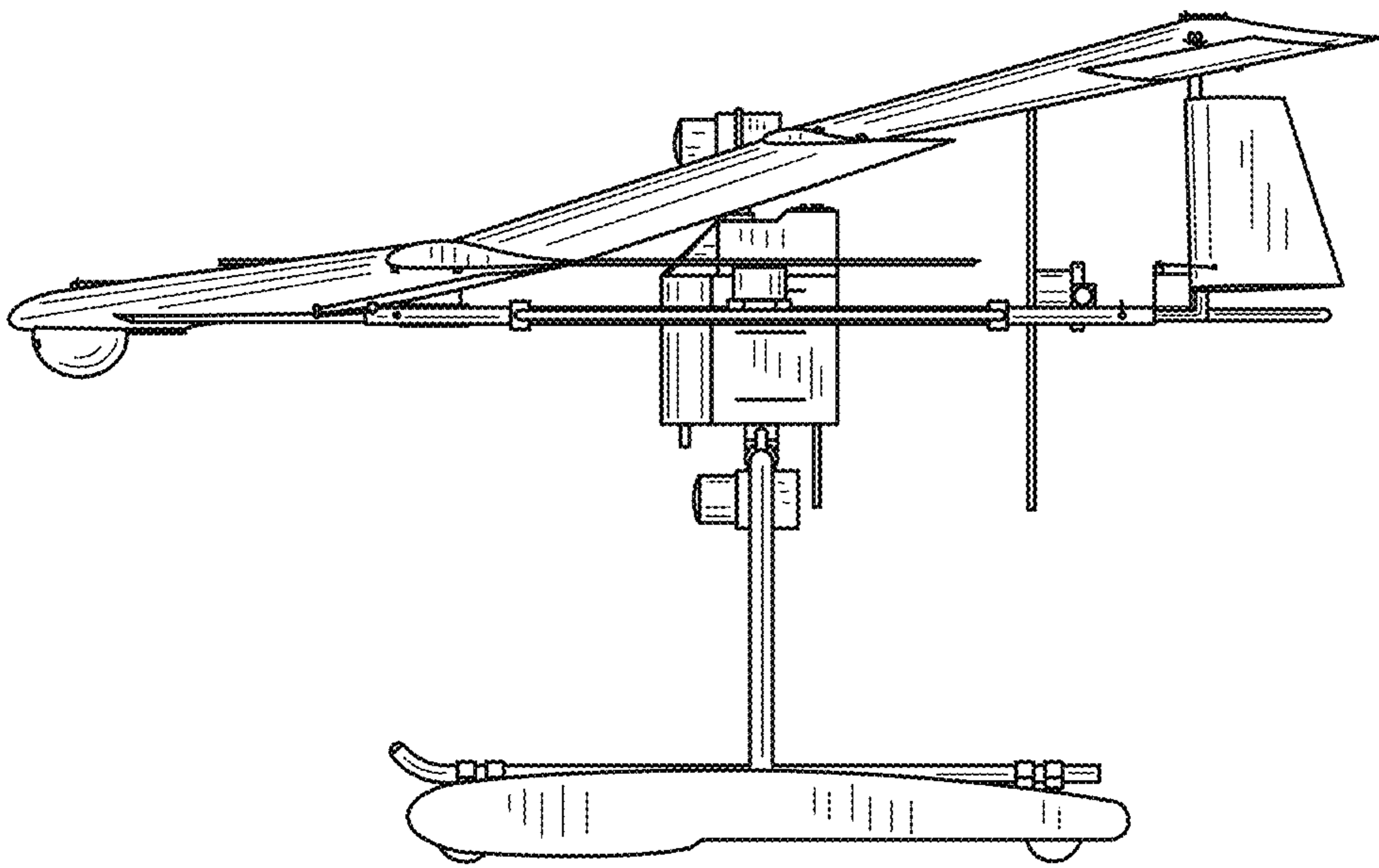


FIG.4

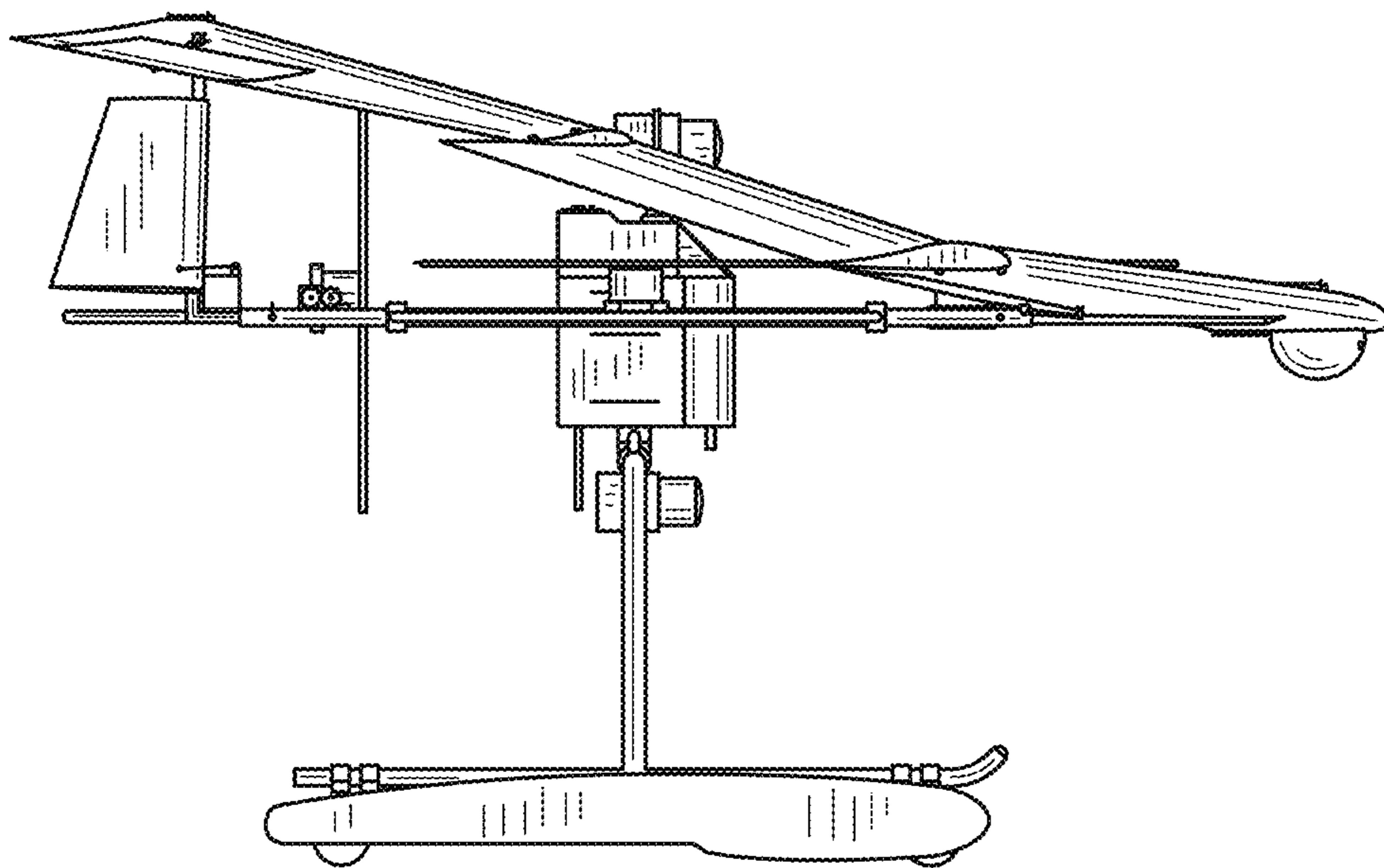


FIG.5

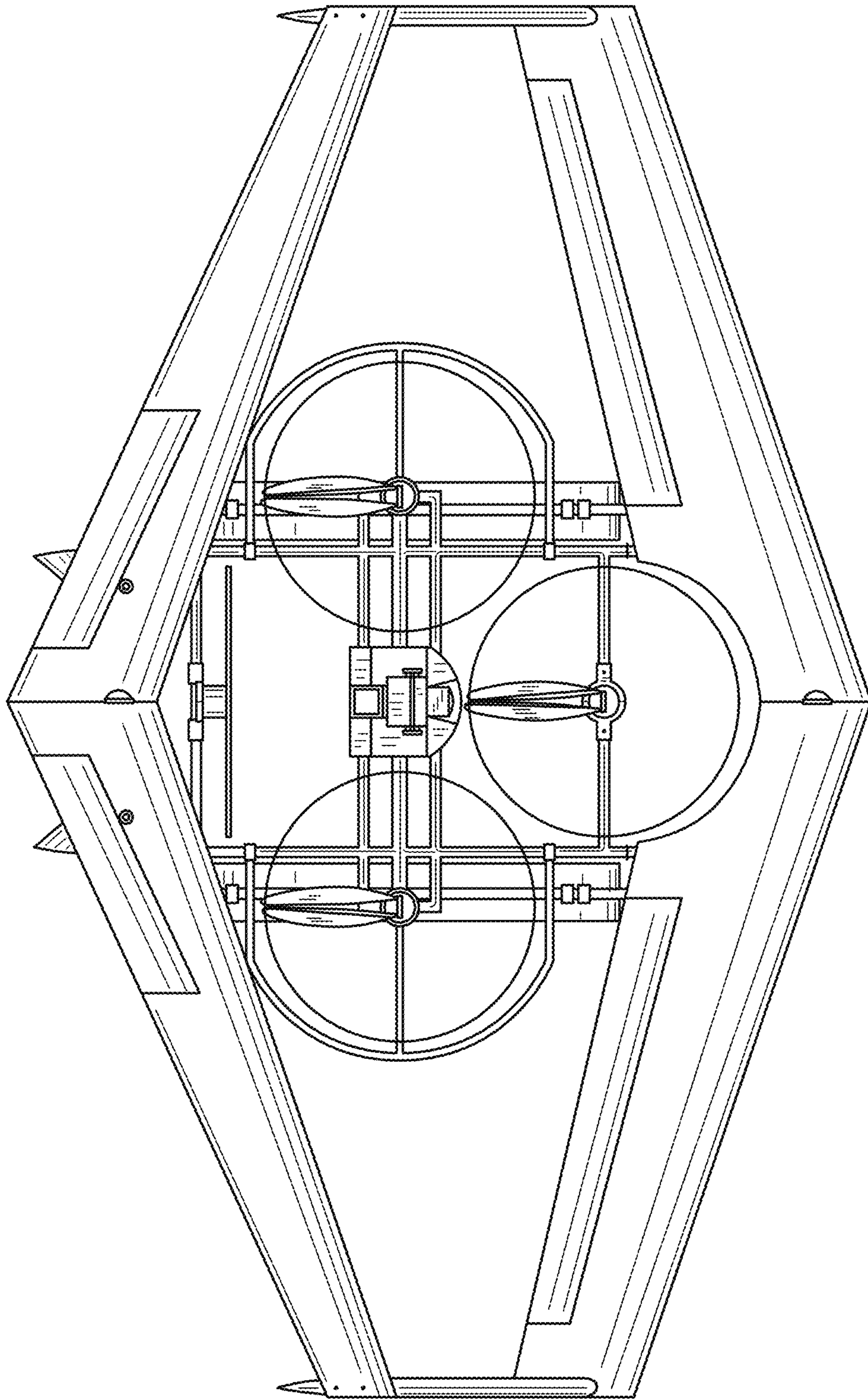


FIG.6

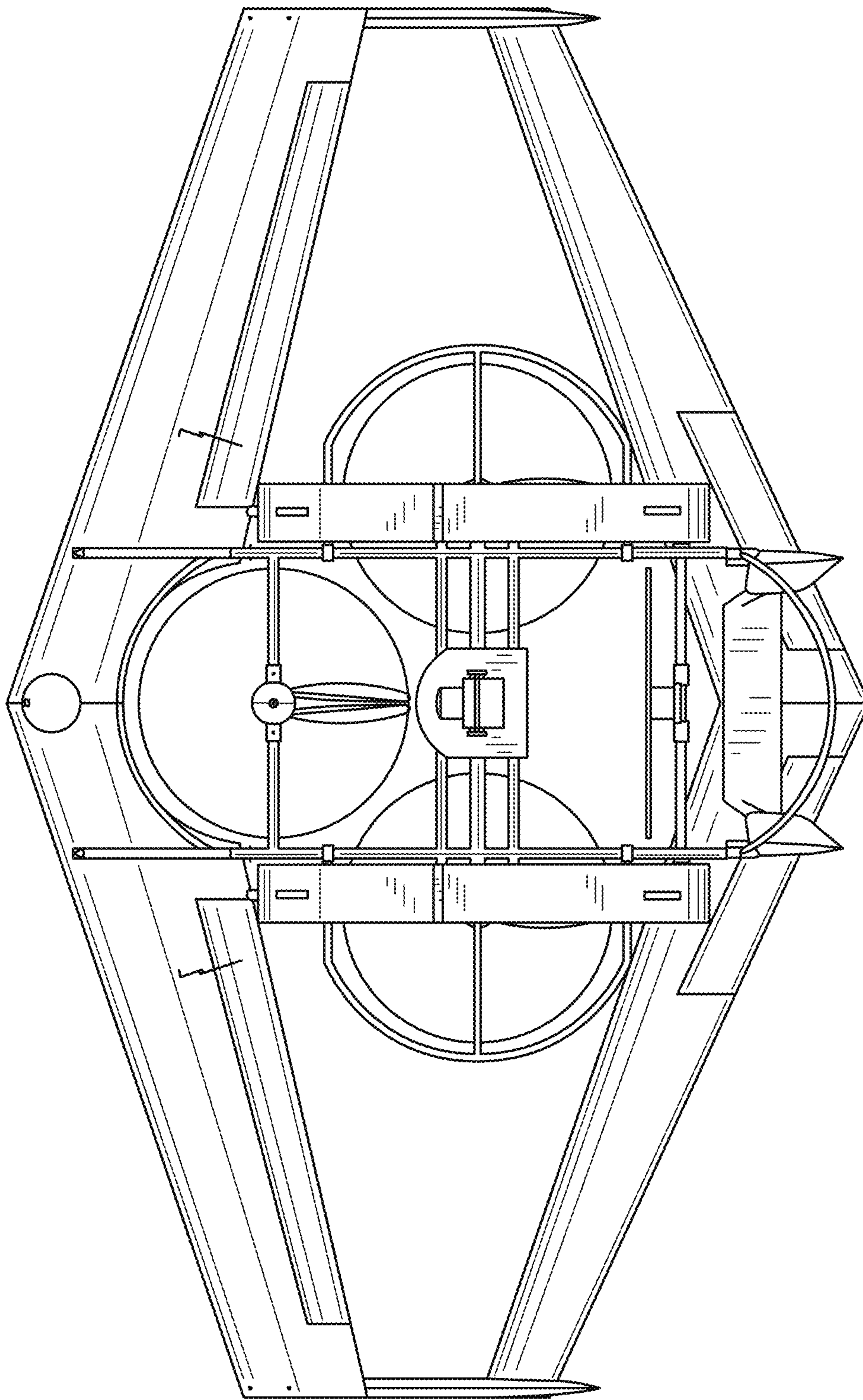


FIG.7

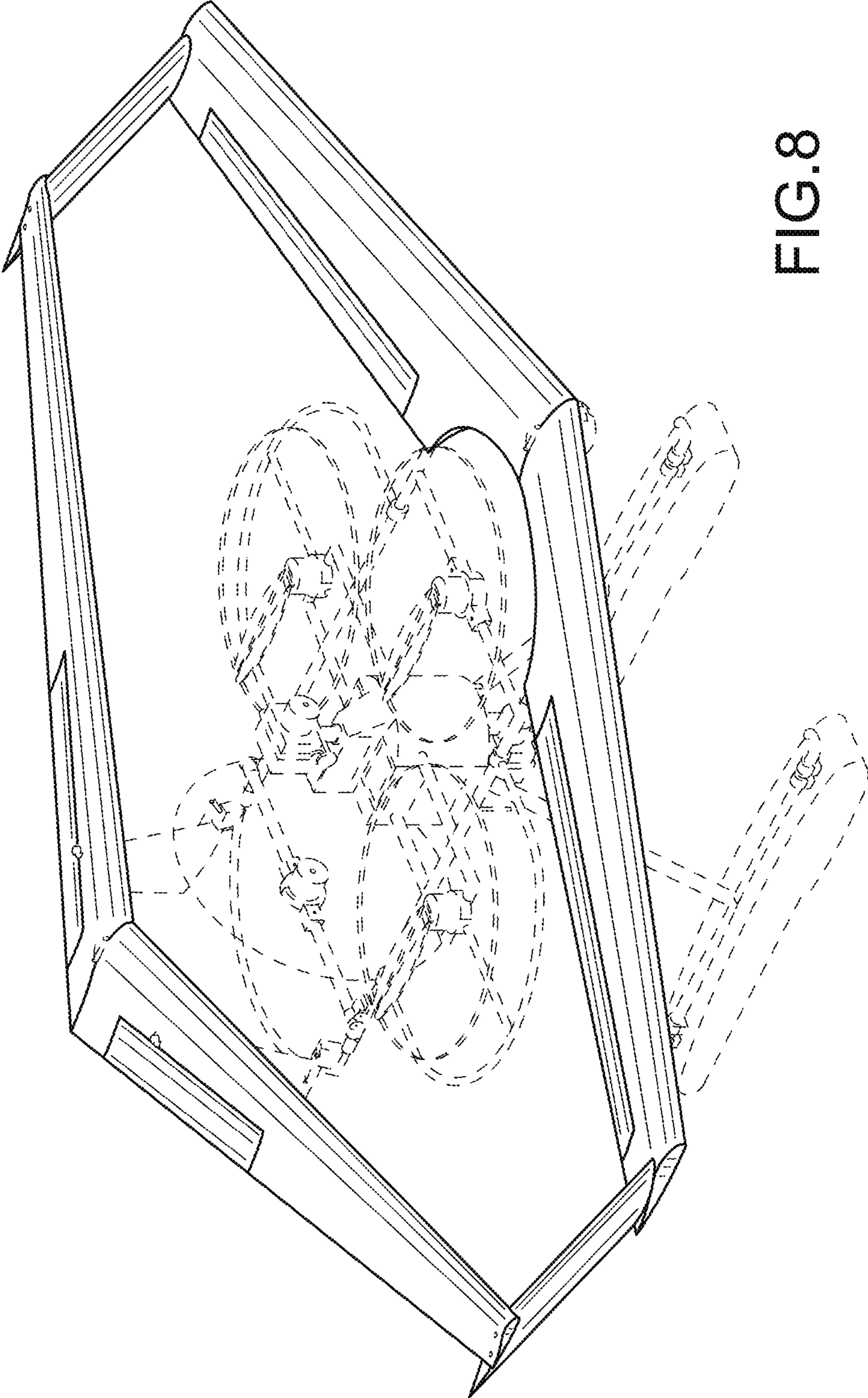


FIG.8

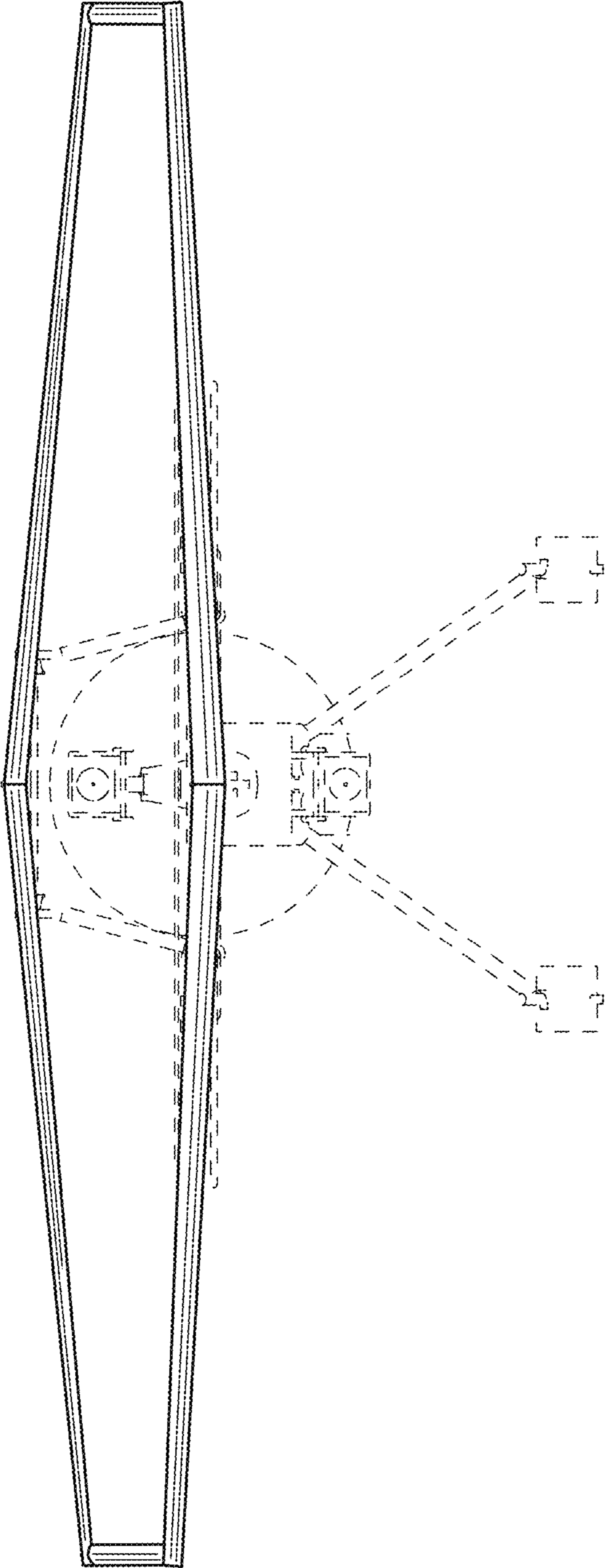


FIG.9

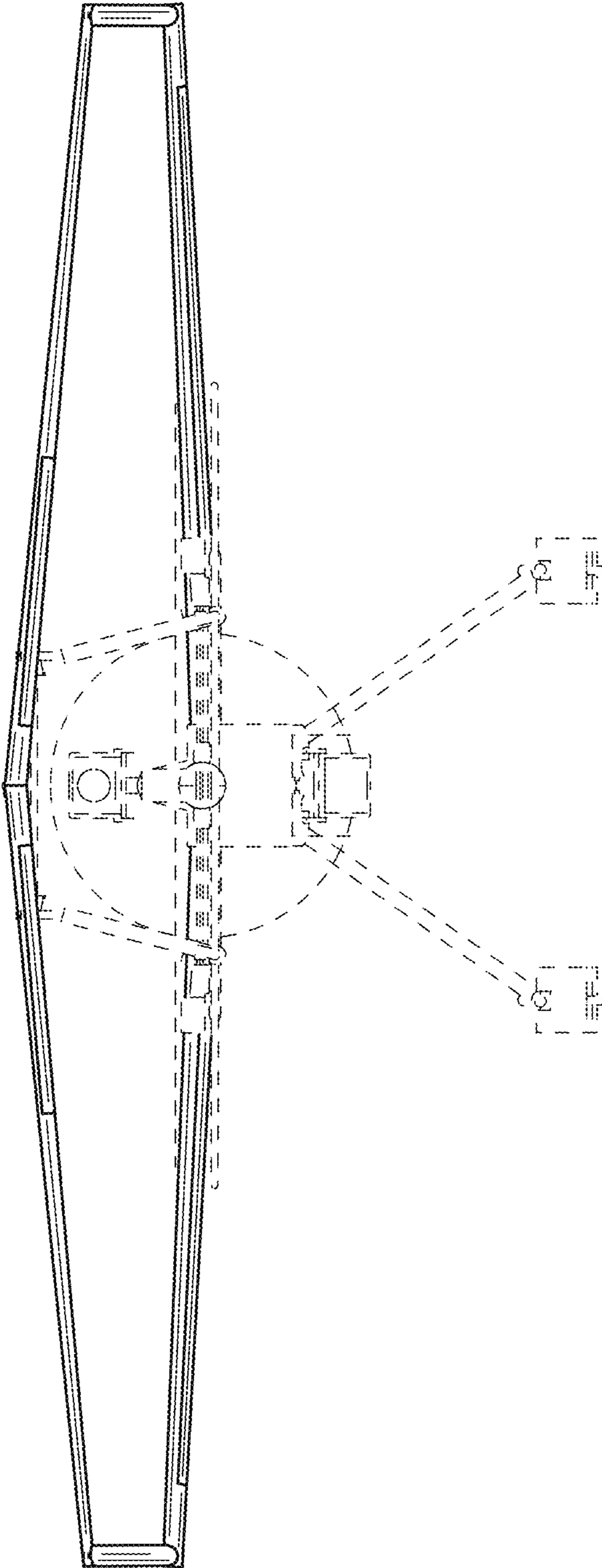


FIG.10

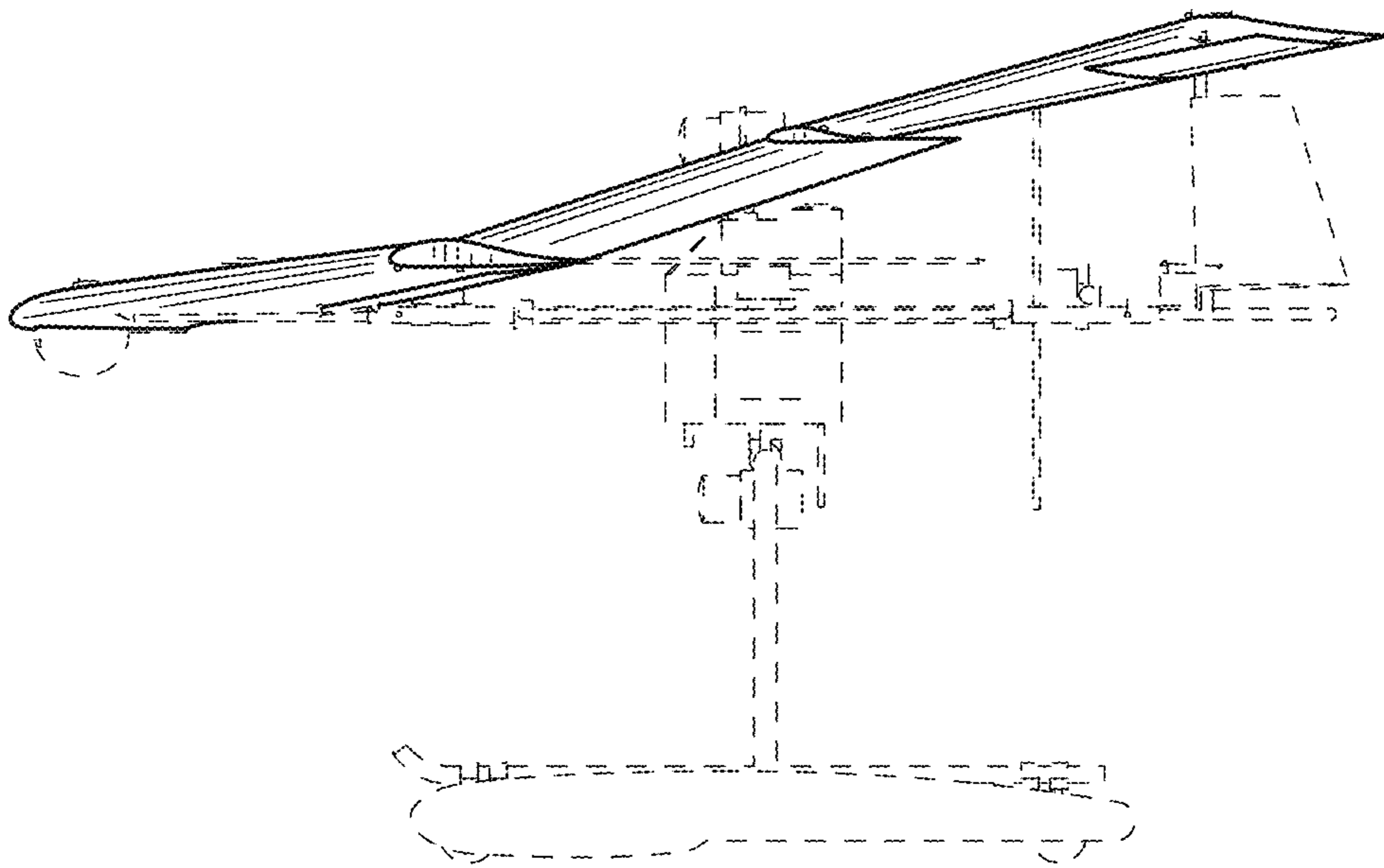


FIG.11

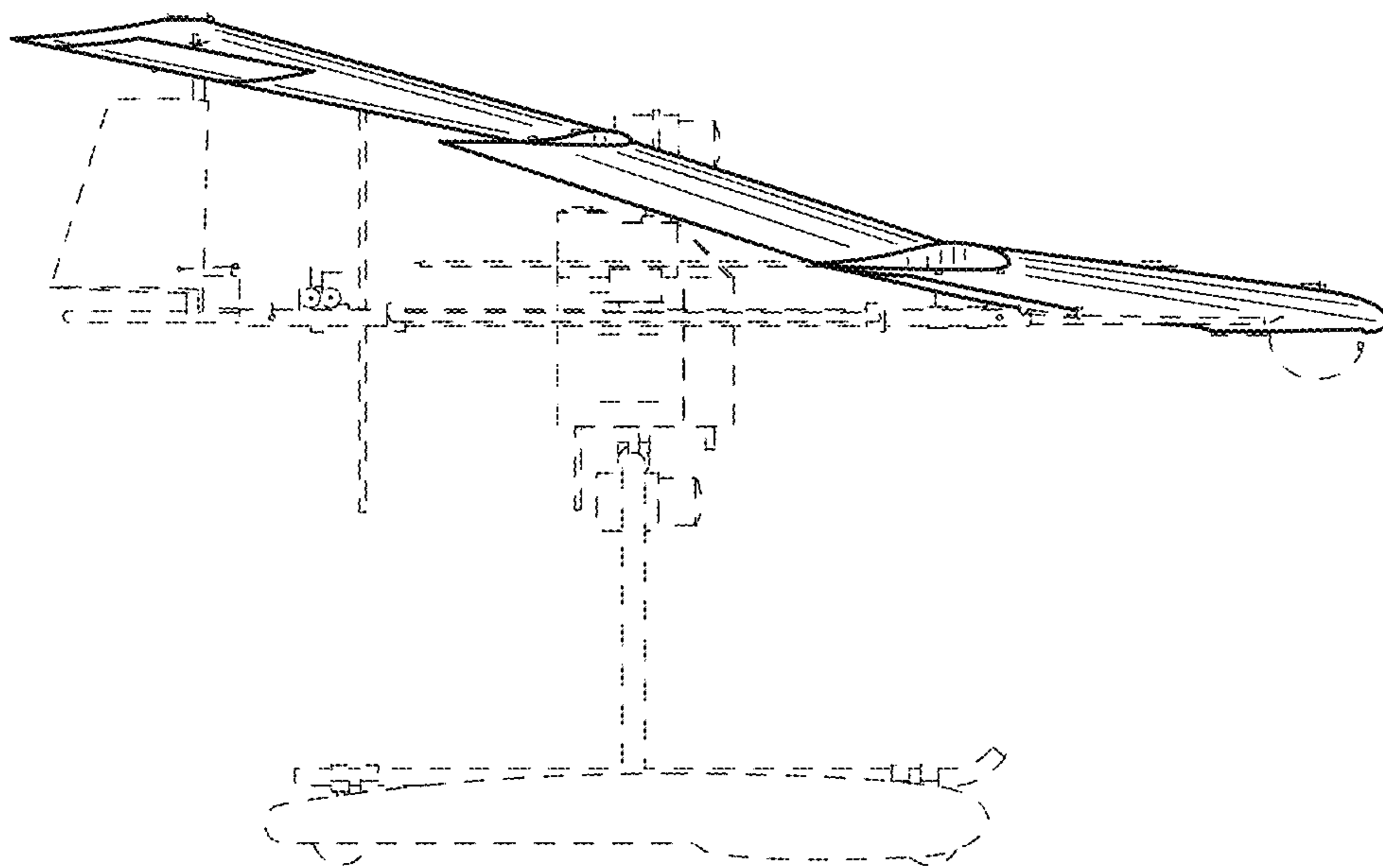


FIG.12

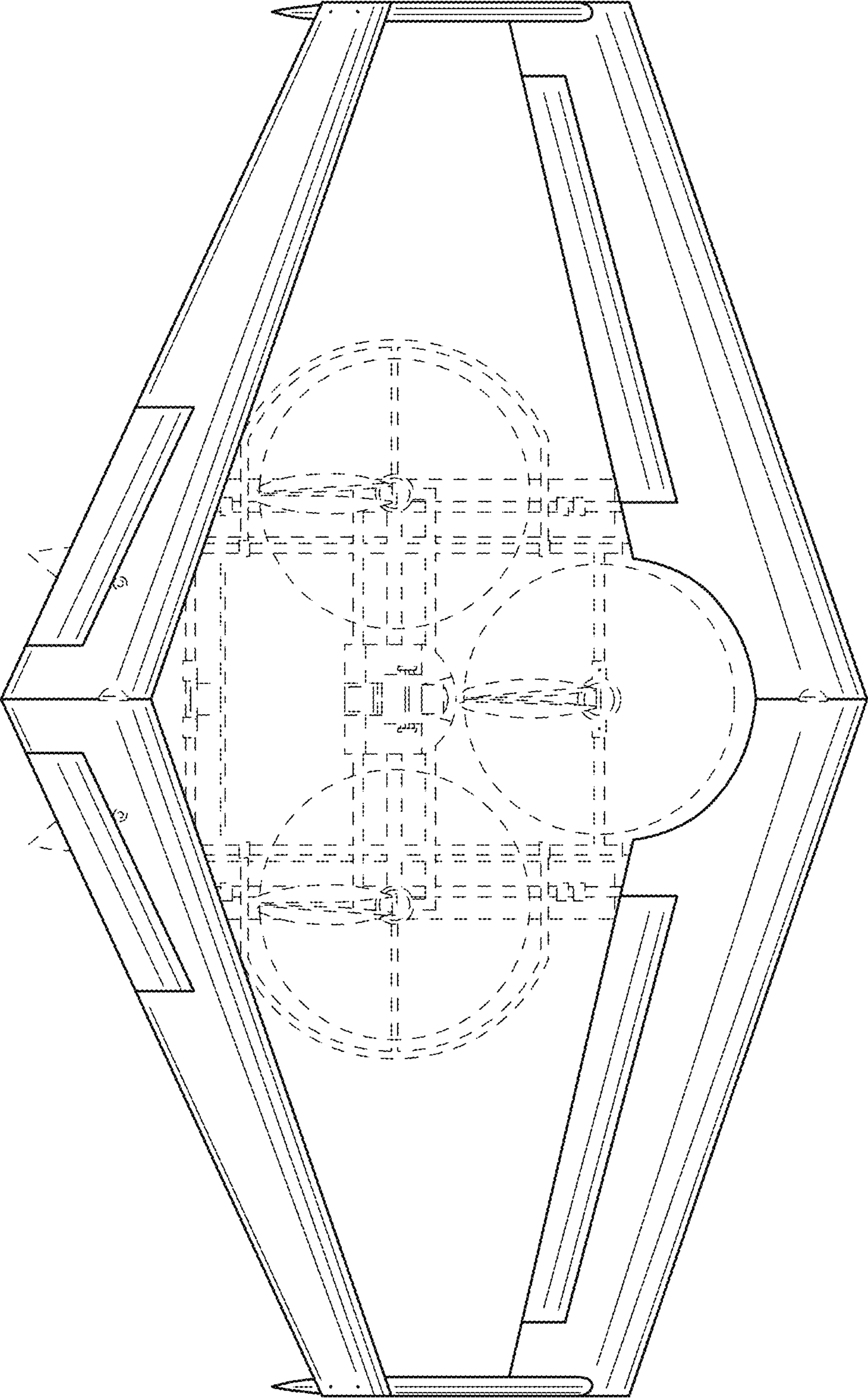


FIG.13

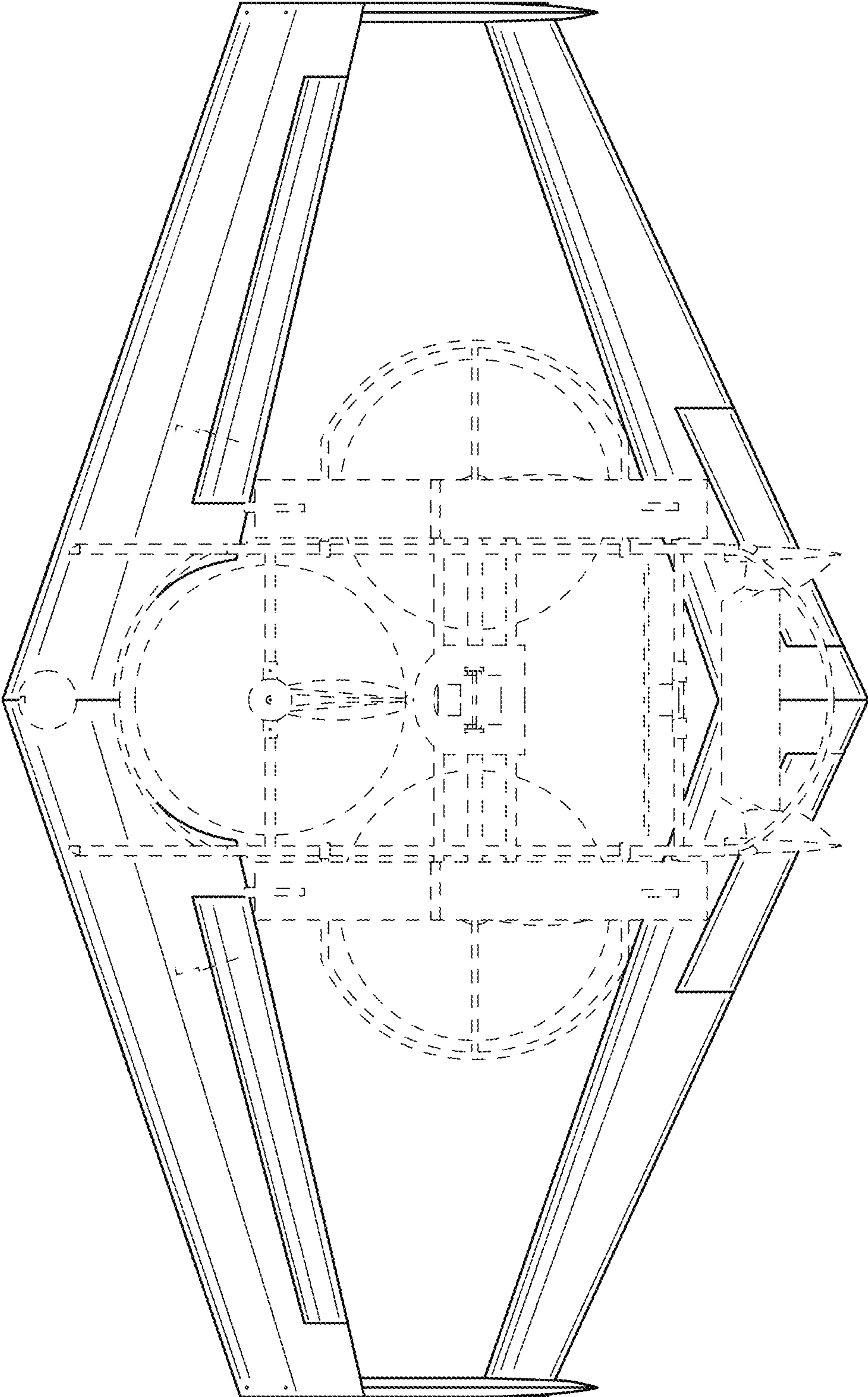


FIG.14