



US00D852092S

(12) **United States Design Patent** (10) **Patent No.:** **US D852,092 S**
Woodworth et al. (45) **Date of Patent:** **** Jun. 25, 2019**

(54) **UNMANNED AERIAL VEHICLE**
(71) Applicant: **X Development LLC**, Mountain View, CA (US)
(72) Inventors: **Adam Woodworth**, San Jose, CA (US); **Adem Rudin**, Mountain View, CA (US); **Stephen Benson**, San Carlos, CA (US); **James Schmalzried**, San Jose, CA (US); **Kyle Liske**, San Francisco, CA (US); **Jesse Blake**, Sunnyvale, CA (US); **André Prager**, Sunnyvale, CA (US); **Nicolas Renold**, Mountain View, CA (US); **Evan Twyford**, Mountain View, CA (US); **Clark Sopper**, Redwood City, CA (US)

D145,898 S * 11/1946 Kartveli 244/13
D148,673 S * 2/1948 Boyes 244/45 R
D163,722 S * 6/1951 Vinje 244/2
D172,969 S * 9/1954 Johnson et al. D12/341
2,752,114 A * 6/1956 Calvy B60J 5/125
244/118.3
3,018,987 A * 1/1962 Multhopp B64C 9/38
244/15

(Continued)

OTHER PUBLICATIONS

Google's Project Wing tests drone food delivery in Australia by George Suresh . dated Oct. 23, 2017. found online [Dec. 14, 2018] <https://www.droneblog.com/2017/10/23/googles-project-wing-tests-drone-food-delivery-in-australia/>.*

(Continued)

(73) Assignee: **Wing Aviation LLC**, Mountain View, CA (US)

Primary Examiner — Marissa J Cash

(74) *Attorney, Agent, or Firm* — Christensen O'Connor Johnson Kindness PLLC

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

(21) Appl. No.: **29/621,957**

(57) **CLAIM**

We claim the ornamental design of an unmanned aerial vehicle, as shown and described.

(22) Filed: **Oct. 12, 2017**

(51) **LOC (11) Cl.** **12-07**

(52) **U.S. Cl.**
USPC **D12/16.1**

(58) **Field of Classification Search**

USPC D12/16.1, 319-345; D21/436, 438, 441, D21/442, 443, 444, 447, 448, 449, 450, D21/451, 452, 454
CPC ... B64C 29/00; B64C 2201/141; B64C 27/24; B64C 27/30; B64C 39/04; B64C 29/0033; B64C 29/0025

See application file for complete search history.

DESCRIPTION

FIG. 1 is a top left perspective view of an unmanned aerial vehicle;
FIG. 2 is a bottom right perspective view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is a front elevation view thereof;
FIG. 6 is a rear elevation view thereof;
FIG. 7 is a right side elevation view thereof; and,
FIG. 8 is a left side elevation view thereof.

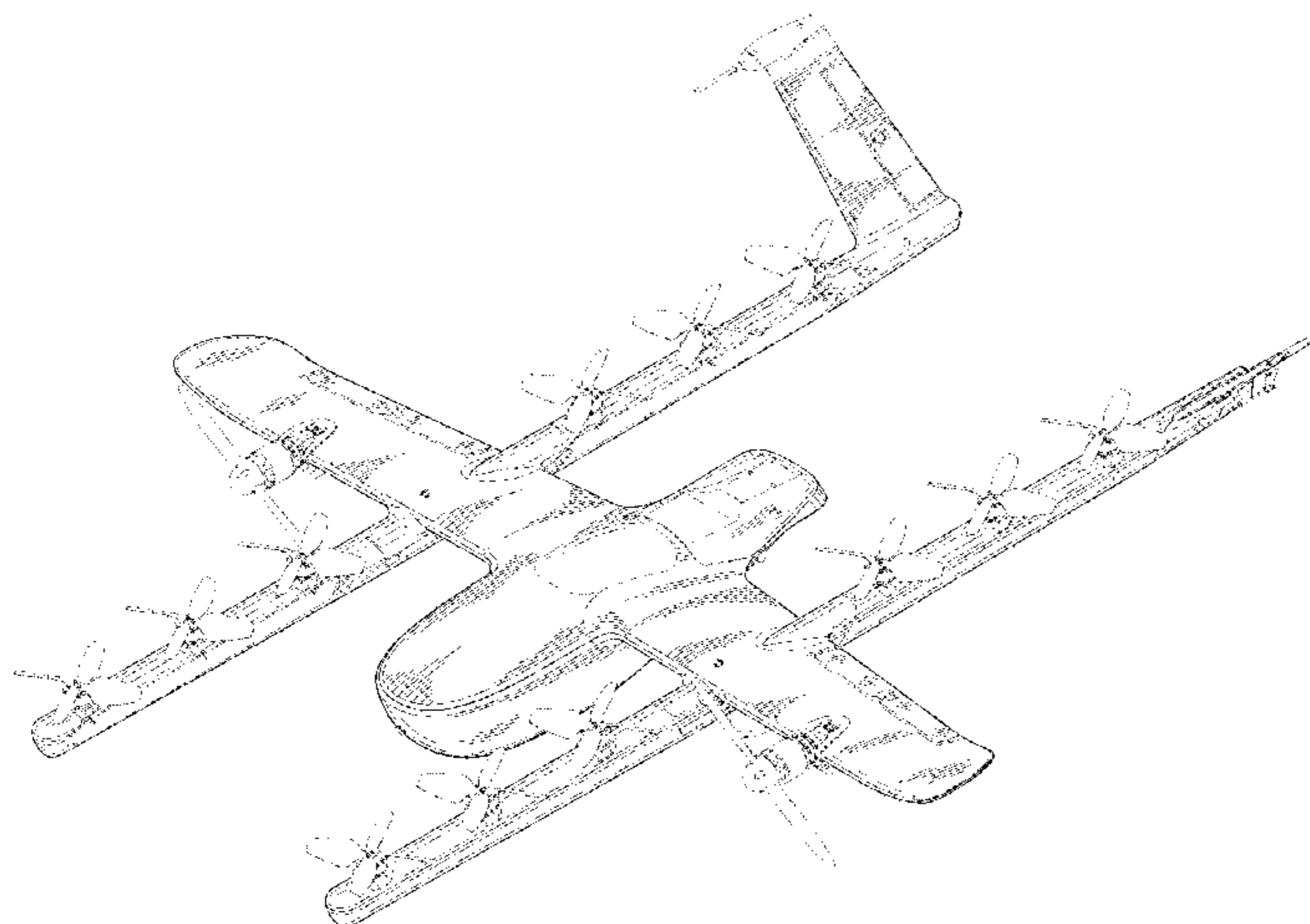
The broken lines immediately adjacent the claimed areas represent the bounds of the claimed design while all other broken lines are directed to portions of the unmanned aerial vehicle that form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D91,444 S * 1/1934 Shelton D12/335
D119,714 S * 3/1940 Hibbard et al. 244/13

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,059,876 A * 10/1962 Platt B64C 29/0033
244/48
D203,720 S * 2/1966 Jarchow D12/335
D239,522 S * 4/1976 Wheatley D12/335
D240,909 S * 8/1976 Whitener D12/335
D246,298 S * 11/1977 Hansen D12/324
D269,669 S * 7/1983 Hancock 244/45 A
D269,967 S * 8/1983 Dmitrowsky D12/322
4,746,082 A * 5/1988 Syms B64D 47/08
244/118.2
D301,867 S * 6/1989 Street D12/339
D311,719 S * 10/1990 Haga 244/45 A
5,145,129 A * 9/1992 Gebhard B64C 29/00
244/12.1
D371,105 S * 6/1996 Graham D12/319
D396,842 S * 8/1998 Jones D12/333
5,979,824 A * 11/1999 Gagliano B64C 1/26
244/13
D461,159 S * 8/2002 Miralles D12/319
D466,858 S * 12/2002 Carroll D12/337
D496,074 S * 9/2004 Darack D12/321
D500,729 S * 1/2005 Wilding D12/319
D500,981 S * 1/2005 Wilding D12/319
6,969,026 B2 * 11/2005 Kayama B64C 27/24
244/117 R
D543,248 S * 5/2007 Winston D21/450
D573,939 S * 7/2008 Las Heras D12/319
D616,805 S * 6/2010 Zha D12/343
D678,169 S * 3/2013 Kennelly D12/319
D710,782 S * 8/2014 Cummings D12/326
D734,402 S * 7/2015 Reznik D12/16.1
D736,140 S * 8/2015 Moller D12/326
9,120,560 B1 * 9/2015 Armer B64C 29/0008
D743,868 S * 11/2015 Cummings D12/328
D800,843 S * 10/2017 Sartorius D21/447
D808,328 S * 1/2018 Ivans D12/328
D810,621 S * 2/2018 Sadek D12/16.1
9,884,682 B2 * 2/2018 Stuckl B64C 3/10
D813,143 S * 3/2018 Belik D12/326

D816,547 S * 5/2018 Cui D12/16.1
D816,583 S * 5/2018 Duterte D12/328
10,000,285 B2 * 6/2018 Shannon B64D 1/02
D822,579 S * 7/2018 Lienhard D12/328
D824,321 S * 7/2018 Ivans D12/327
10,029,787 B1 * 7/2018 Lesser B64C 39/024
10,035,623 B1 * 7/2018 Prager B64D 1/22
D824,804 S * 8/2018 Tian D12/16.1
D825,380 S * 8/2018 Tompkin D12/16.1
D825,381 S * 8/2018 Meugnier D12/16.1
D825,669 S * 8/2018 Tompkin D21/441
D832,141 S * 10/2018 Ferner D12/16.1
D832,154 S * 10/2018 Tian D12/16.1
10,131,428 B1 * 11/2018 Sopper B64C 27/08
D843,889 S * 3/2019 Merrill D12/16.1
2013/0020429 A1 * 1/2013 Kroo B64C 3/16
244/6
2013/0206921 A1 * 8/2013 Paduano B64C 13/16
244/7 C
2014/0158815 A1 * 6/2014 Renteria B64C 29/0025
244/12.1
2014/0339372 A1 * 11/2014 Dekel B64C 29/0033
244/7 R
2017/0113778 A1 * 4/2017 Liu B64C 39/024
2017/0137122 A1 * 5/2017 Kooiman B64C 29/0033
2017/0300065 A1 * 10/2017 Douglas G05D 1/0676
2018/0057159 A1 * 3/2018 Ivans B64C 29/0033
2018/0072398 A1 * 3/2018 Sartorius B64C 1/26
2018/0079503 A1 * 3/2018 Ivans B64D 35/08
2018/0086458 A1 * 3/2018 Sartorius B64C 1/26
2018/0148160 A1 * 5/2018 Gonzalez B64C 11/18
2018/0251226 A1 * 9/2018 Fenny B64D 27/24
2018/0273168 A1 * 9/2018 Page B64C 29/0008

OTHER PUBLICATIONS

“Drone trial takes flight”, Canberra Times, Jul. 16, 2017, 2 pages.
“Autonomous drone trial for Googong”, Canberra Times, Jul. 16,
2017, 1 page.

* cited by examiner

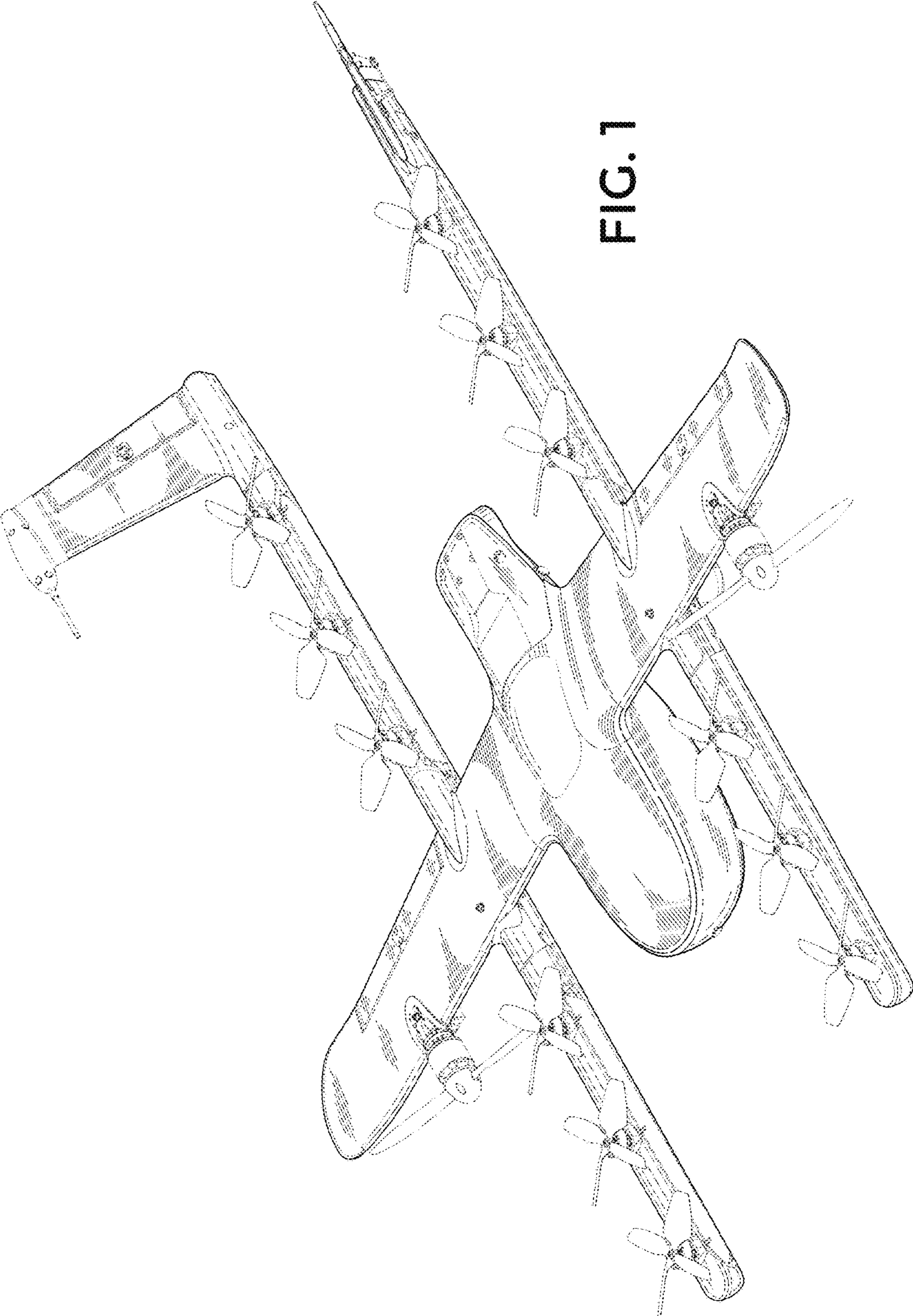


FIG. 1

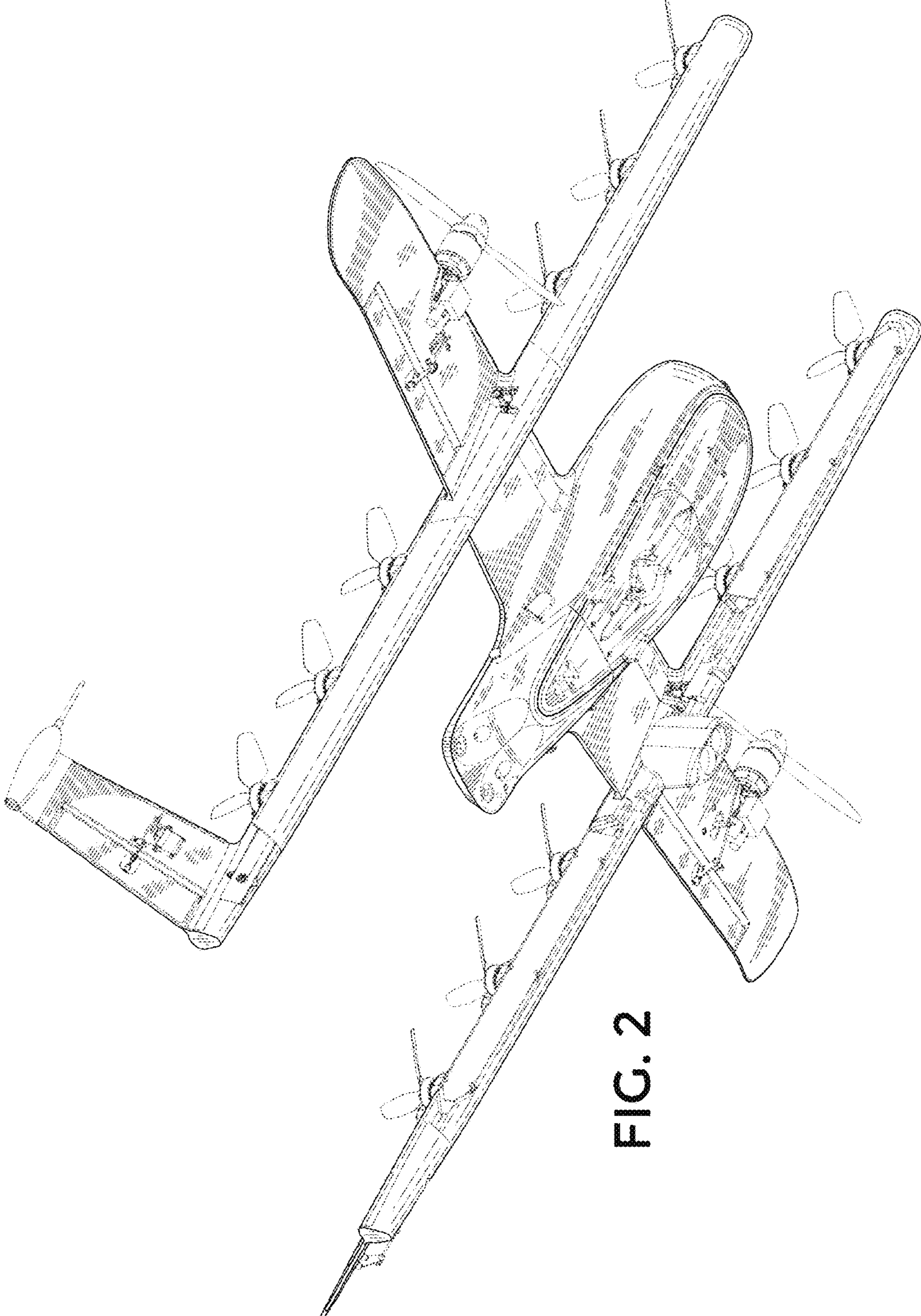


FIG. 2

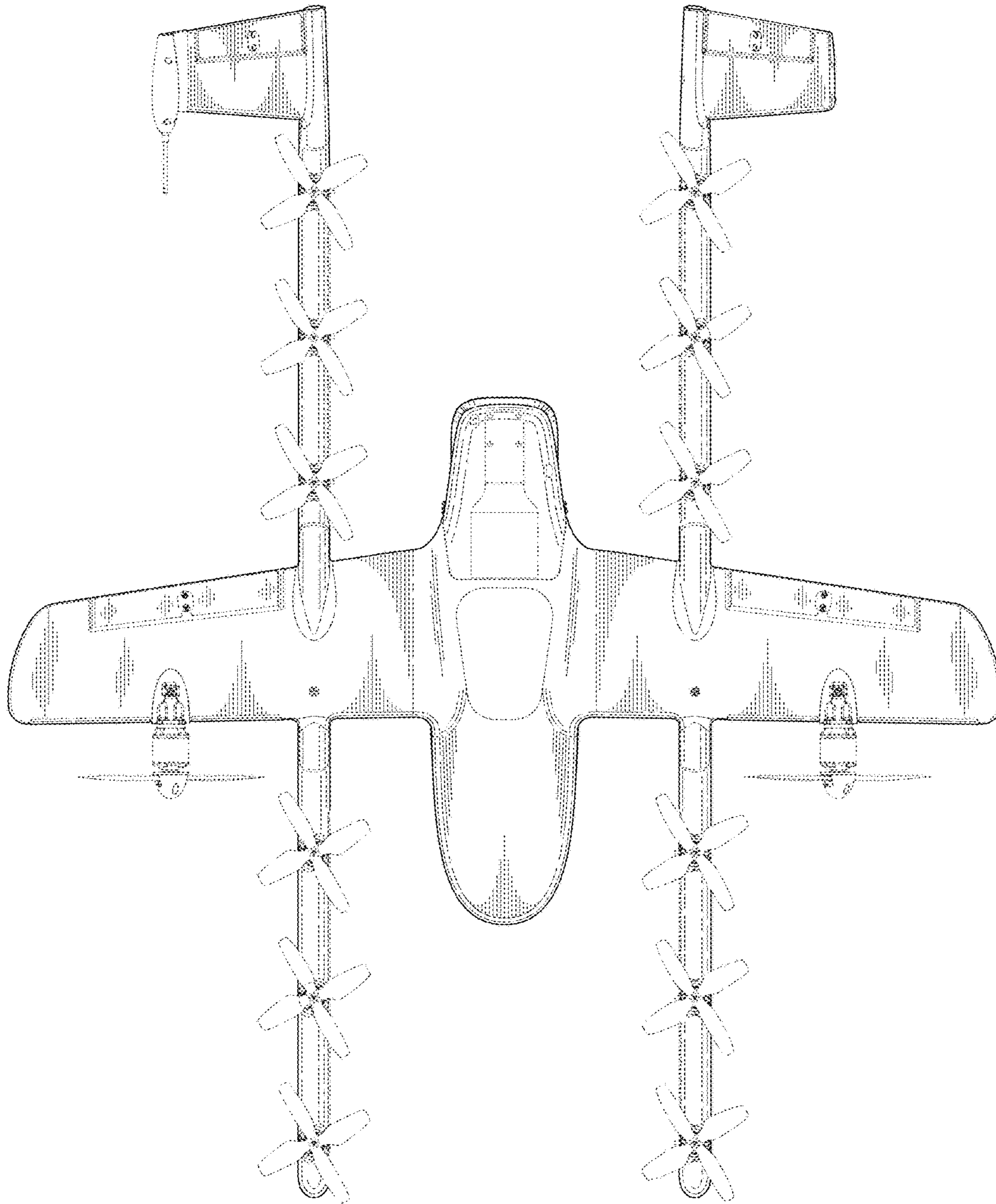


FIG. 3

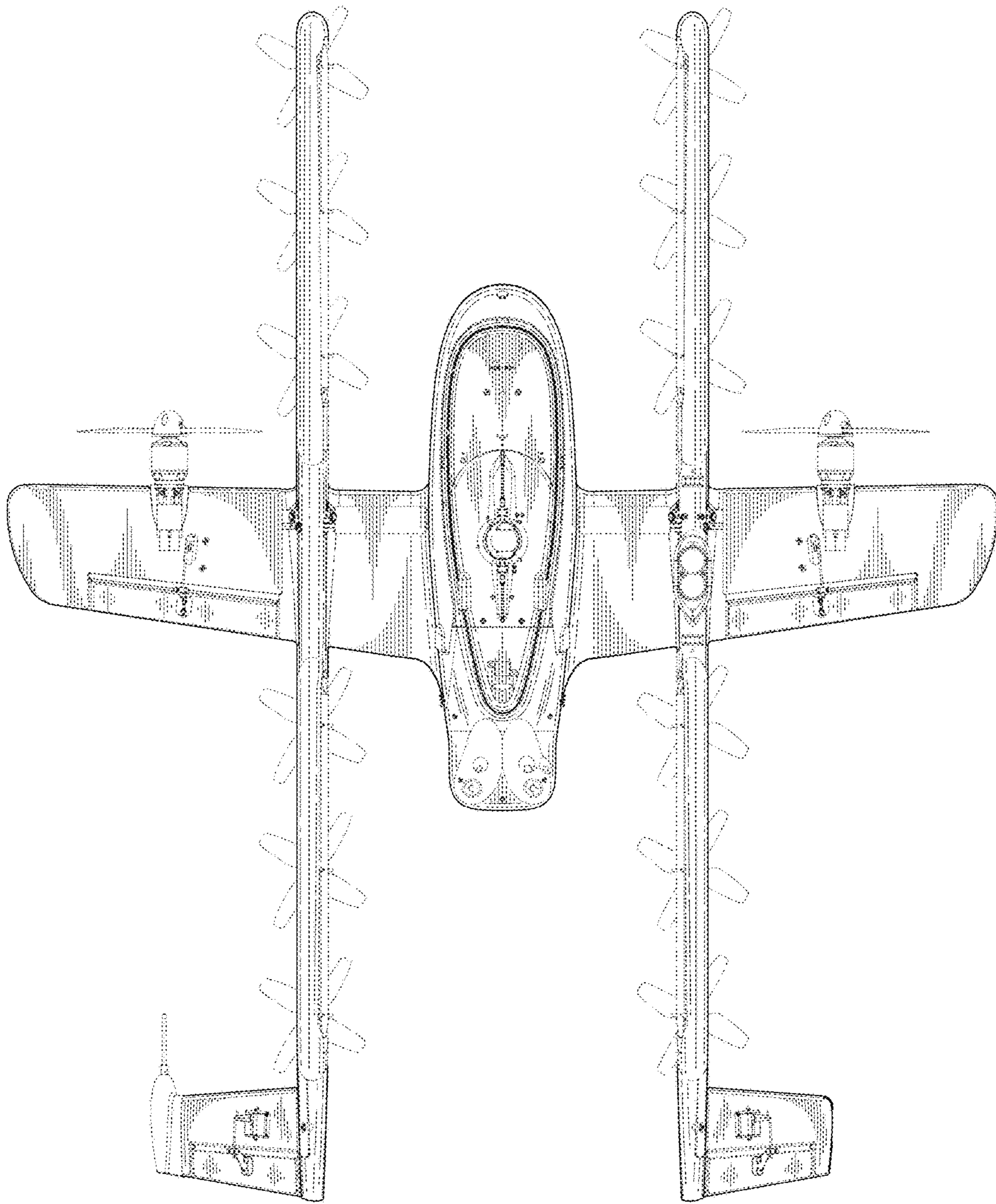


FIG. 4

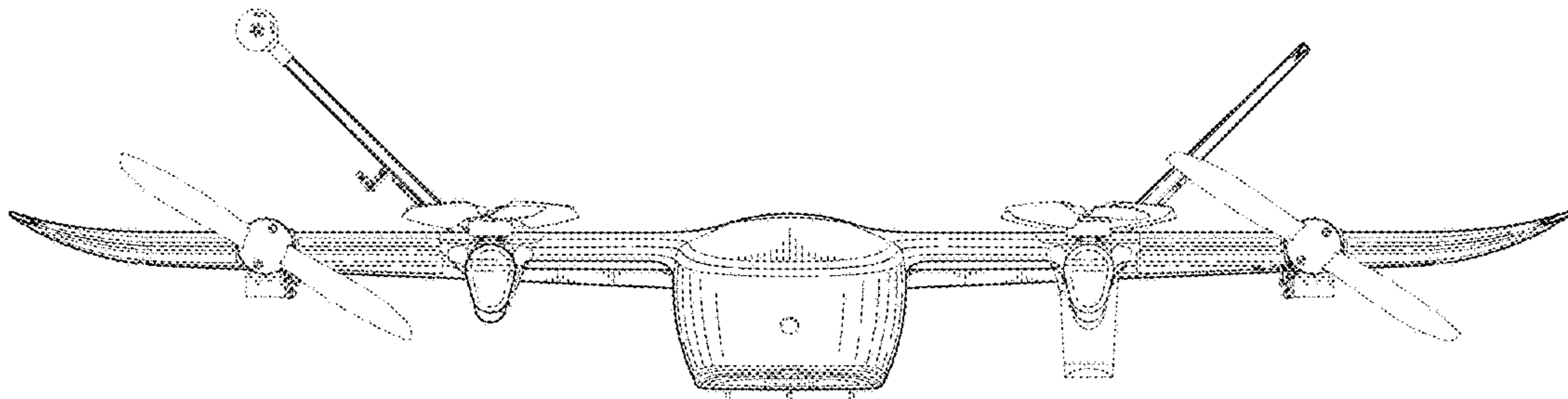


FIG. 5

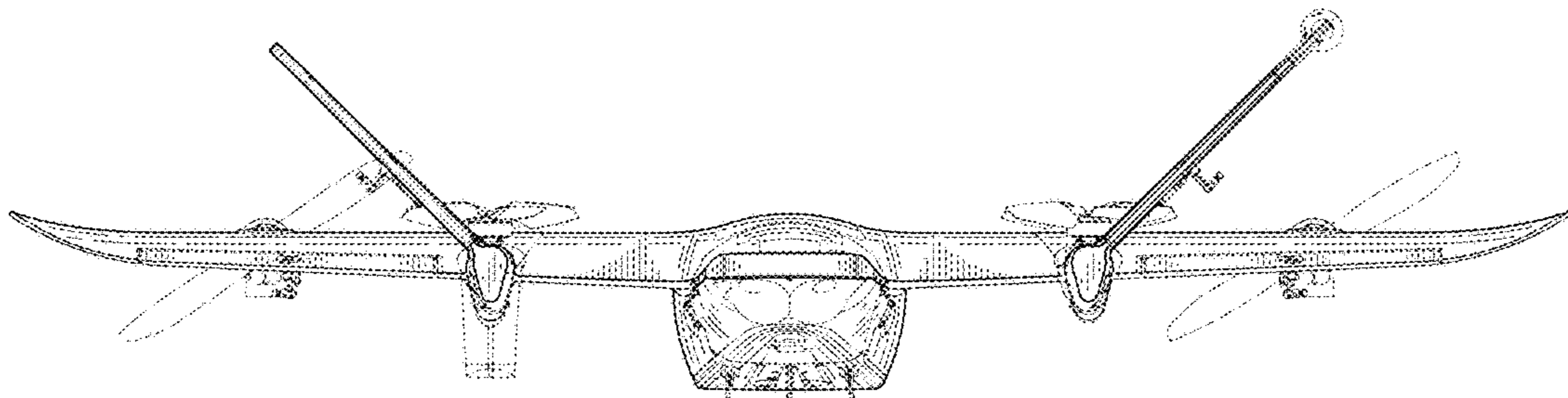


FIG. 6

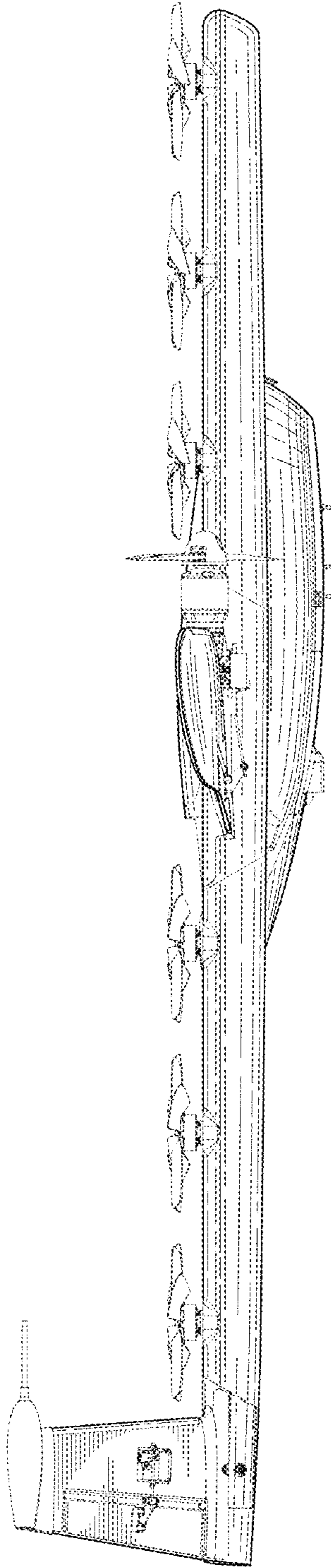


FIG. 7

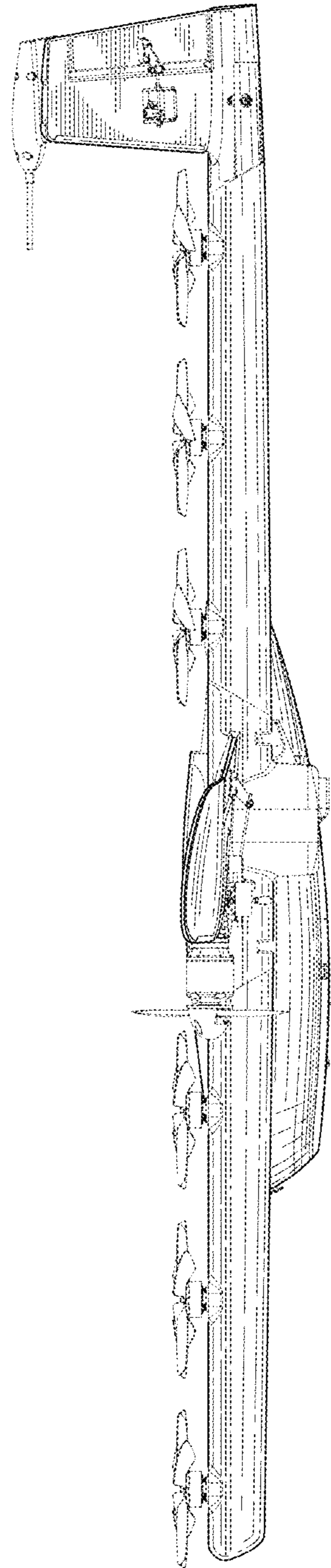


FIG. 8