



US00D857803S

(12) **United States Design Patent** (10) **Patent No.:** **US D857,803 S**
Frawley (45) **Date of Patent:** **** Aug. 27, 2019**

(54) **AERIAL TOY WITH A PLURALITY OF PROPELLERS**

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(73) Assignee: **FLIGHT LAB LIMITED**, Hong Kong (CN)

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

(21) Appl. No.: **29/637,115**

(22) Filed: **Feb. 14, 2018**

(51) **LOC (12) Cl.** **21-07**

(52) **U.S. Cl.**
USPC **D21/450**

(58) **Field of Classification Search**
USPC D12/16.1, 319–345, 1; D21/436, 438, D21/441, 442, 443, 444, 447, 448, 449, D21/450, 451, 452, 454, 769, 334
CPC ... B64C 29/00; B64C 2201/141; B64C 27/24; B64C 27/30; B64C 39/04; B64C 29/0033; B64C 29/0025; B64C 27/20; B60F 5/02
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,955,780	A *	10/1960	Hulbert	.....	B64C 27/20
					104/23.2
3,265,329	A *	8/1966	Postelson	.....	B64C 27/20
					180/122
D243,837	S *	3/1977	Adams	.....	D12/330
5,634,839	A *	6/1997	Dixon	.....	A63H 27/00
					446/37
6,745,977	B1 *	6/2004	Long	.....	B60F 5/02
					244/17.25
D516,994	S *	3/2006	Houck, II	.....	D12/319
D526,951	S *	8/2006	Houck, II	.....	D12/319
7,275,712	B2 *	10/2007	Yoeli	.....	B64C 29/0025
					244/23 A

(Continued)

OTHER PUBLICATIONS

RC Hovering Space Surfer by Robert Birming of GeekAlerts.dated Aug. 29, 2008. found online [Oct. 25, 2018] <https://www.geekalerts.com/rc-hovering-space-surfer/>.*

(Continued)

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(57) **CLAIM**

The design for an aerial toy with a plurality of propellers, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view from above, to the front and to the left side of a new design for an aerial toy with a plurality of propellers;

FIG. 2 is a perspective view from above, to the rear and to the left side thereof;

FIG. 3 is a perspective view from below, to the front, and to the left side thereof;

FIG. 4 is a perspective view from below, to the rear, and to the left side thereof;

FIG. 5 is a top plan view thereof;

FIG. 6 is a bottom plan view thereof;

FIG. 7 is a left side elevation view thereof;

FIG. 8 is a right side elevation view thereof;

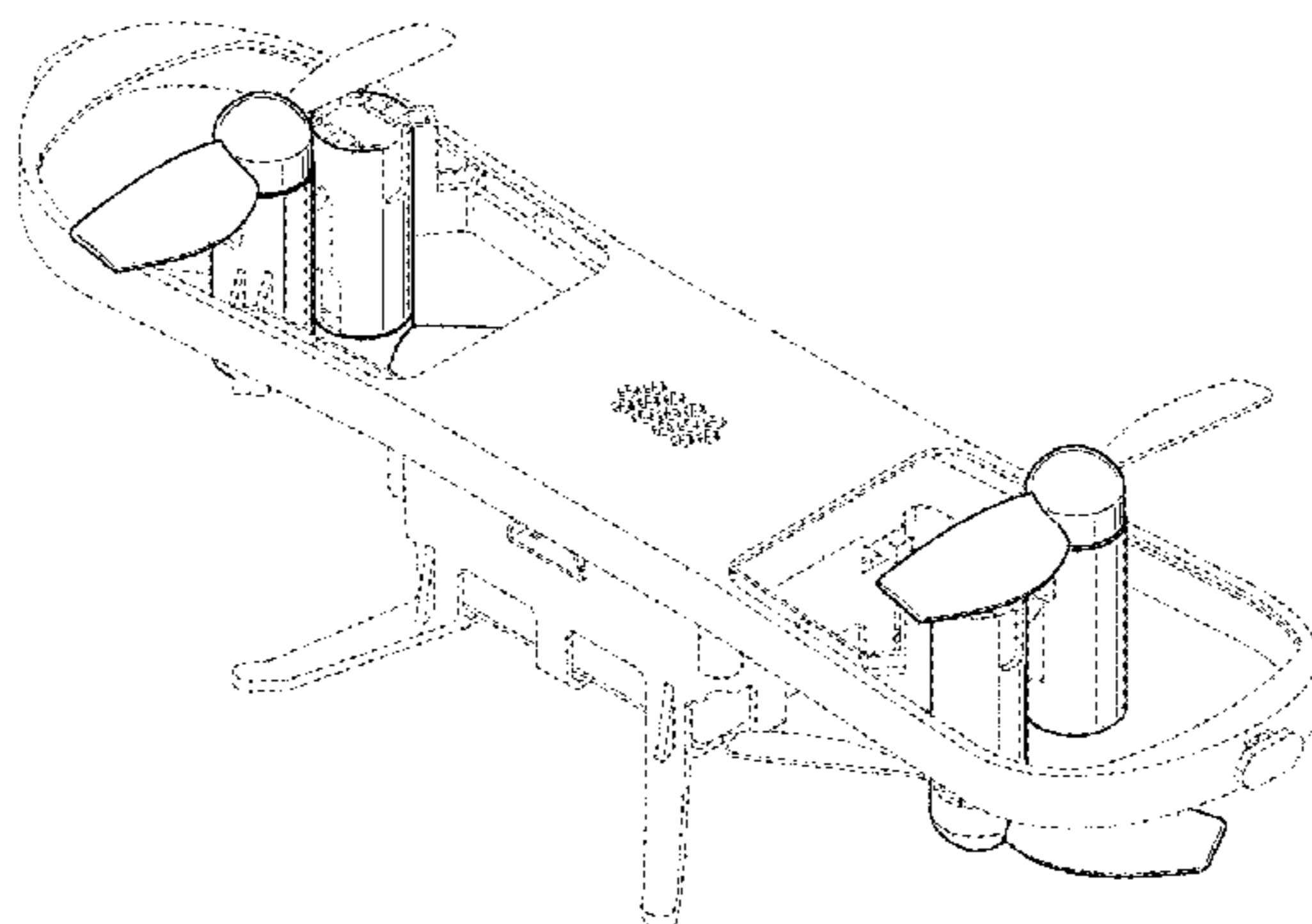
FIG. 9 is a front elevation view thereof; and,

FIG. 10 is a rear elevation view thereof.

The evenly spaced 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 aerial toy with a plurality of propellers and are for illustrative purposes only; the broken lines form no part of the claimed design.

The claim is defined by shaded surfaces.

1 Claim, 9 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D557,365 S * 12/2007 Parten D21/766
 D570,436 S * 6/2008 Scaturro D21/766
 8,251,307 B2 * 8/2012 Goossen B64C 39/024
 244/23 C
 8,328,130 B2 * 12/2012 Goossen B64C 27/20
 244/17.11
 D676,513 S * 2/2013 Putland D21/769
 8,596,570 B1 * 12/2013 Carambat B64C 11/006
 244/12.1
 8,651,432 B2 * 2/2014 De Roche B64C 29/0025
 244/220
 8,876,038 B2 * 11/2014 Yoeli B64C 27/20
 244/23 A
 D747,775 S * 1/2016 Colin D12/16.1
 9,254,916 B2 * 2/2016 Yang B64C 3/546
 D768,540 S * 10/2016 Ji D12/16.1
 9,457,901 B2 * 10/2016 Bertrand A63H 27/12
 D779,595 S * 2/2017 Xiao D12/16.1
 D800,603 S * 10/2017 Curl D12/16.1
 D806,635 S * 1/2018 Zhou D12/326
 D806,636 S * 1/2018 Lee D12/345
 D810,617 S * 2/2018 Duru D12/1
 9,932,111 B2 * 4/2018 Spinelli B64C 39/024
 9,950,789 B2 * 4/2018 Tsunekawa B64C 27/20
 D844,066 S * 3/2019 Frawley D21/441
 D846,032 S * 4/2019 Frawley D21/436
 2006/0049304 A1 * 3/2006 Sanders, Jr. B64C 27/12
 244/23 A
 2006/0113425 A1 * 6/2006 Rader B64C 15/00
 244/17.11
 2006/0192047 A1 * 8/2006 Goossen B64C 27/20
 244/17.23
 2006/0231675 A1 * 10/2006 Bostan B64C 3/385
 244/12.1
 2008/0283673 A1 * 11/2008 Yoeli B60V 1/043
 244/23 A
 2009/0084907 A1 * 4/2009 Yoeli B64C 15/02
 244/23 R
 2009/0140102 A1 * 6/2009 Yoeli B64C 27/20
 244/23 D

2010/0051740 A1 * 3/2010 Yoeli B64C 27/20
 244/12.1
 2010/0051753 A1 * 3/2010 Yoeli B64C 29/0025
 244/23 A
 2010/0076625 A1 * 3/2010 Yoeli B60V 1/043
 701/4
 2011/0001014 A1 * 1/2011 Gramling B64C 27/18
 244/198
 2011/0049306 A1 * 3/2011 Yoeli B64C 29/0025
 244/23 A
 2011/0049307 A1 * 3/2011 Yoeli B64C 27/08
 244/23 A
 2011/0174920 A1 * 7/2011 Yoeli B64C 27/20
 244/75.1
 2012/0080564 A1 * 4/2012 Yoeli B64C 19/00
 244/23 A
 2014/0124613 A1 * 5/2014 Yang B64C 3/546
 244/12.4
 2015/0370252 A1 * 12/2015 Hanson B63B 1/042
 701/2

OTHER PUBLICATIONS

Air Hogs Extreme Air Board by CoolTHings. dated Aug. 6, 2018. found online [Nov. 30, 2018] <https://www.coolthings.com/air-hogs-extreme-air-board-mini-hoverboard/>.*

Spin Master home page. By SpinMaster. Copyright dated 2017. found online [Nov. 29, 2018] <https://shop.spinmaster.com/home>.*

Buy Spin Master Toys Online via Wayback Machine by Wayback Machine. dated Jul. 8, 2017. found online [Nov. 30, 2018] https://web.archive.org/web/20170708073734/https://shop.spinmaster.com/store/us/air-hogs/_/N-plu6ng.*

Tilting Motor Automatically VTOL Drone by uavgl. dated 2018. found online [Dec. 3, 2018] <http://www.uavgl.com/sale-7849246-tilting-motor-automatically-vtol-drone-tailored-for-your-vtol-applications-1-8meters-wingspan-80km-f.html>.*

U.S. Appl. No. 29/637,117, Non-Final Office Action, dated Oct. 30, 2018, USPTO.

RC Hovering Space Surfer by Robert Birming of GeekAlerts. dated Aug. 29, 2008. <https://www.geekalerts.com/rc-hovering-space-surfer/>.

* cited by examiner

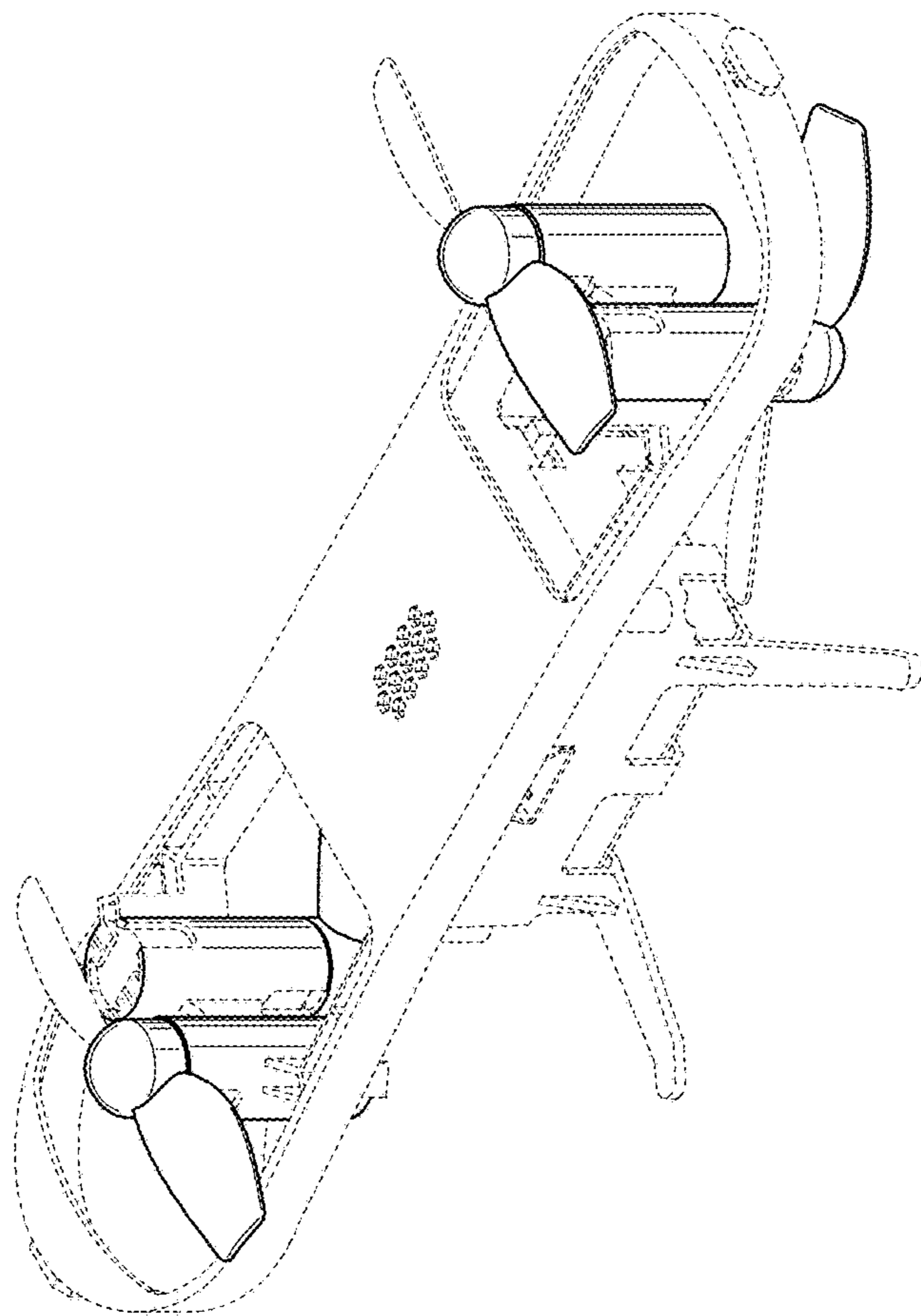


FIG. 1

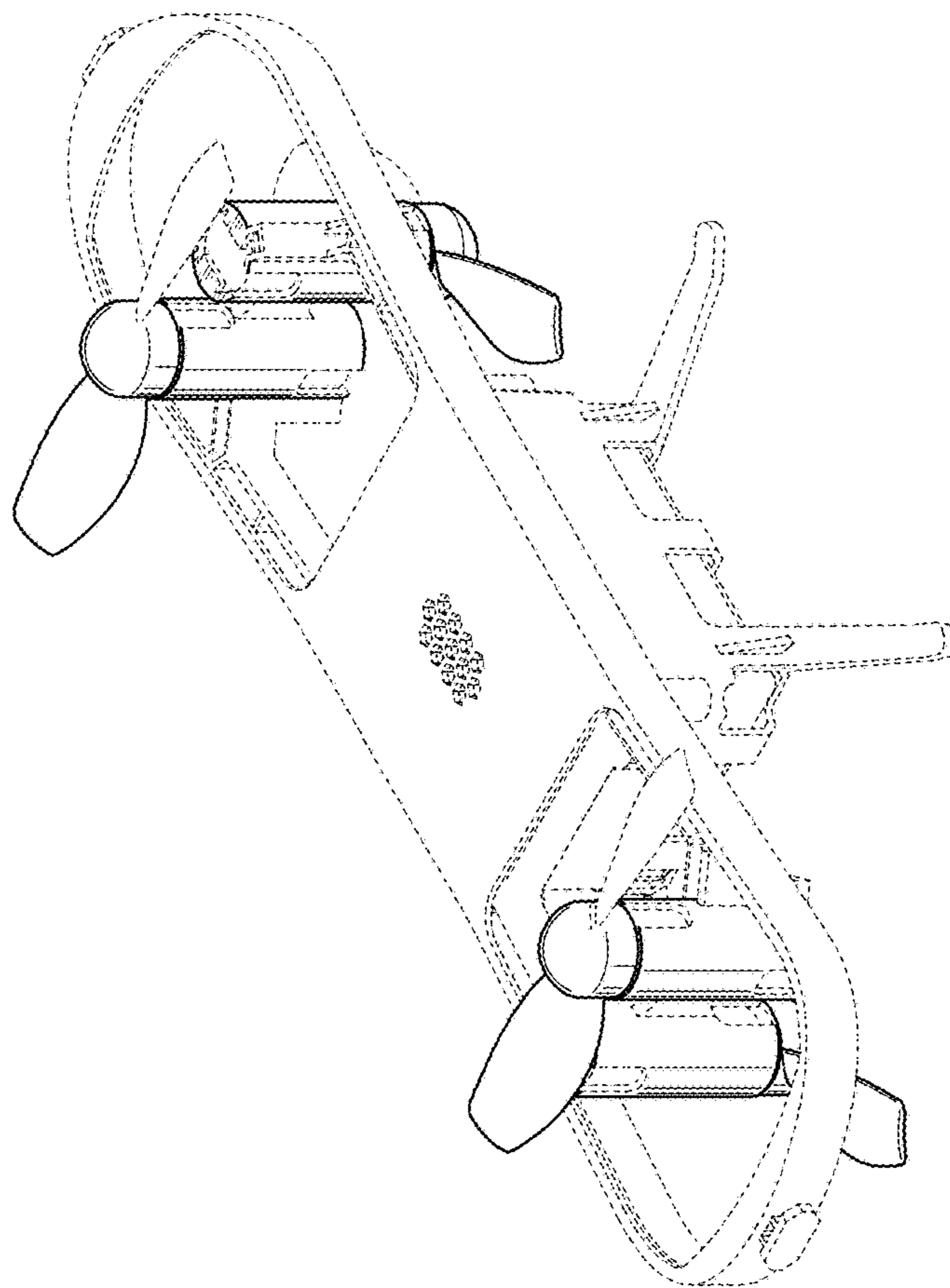


FIG. 2

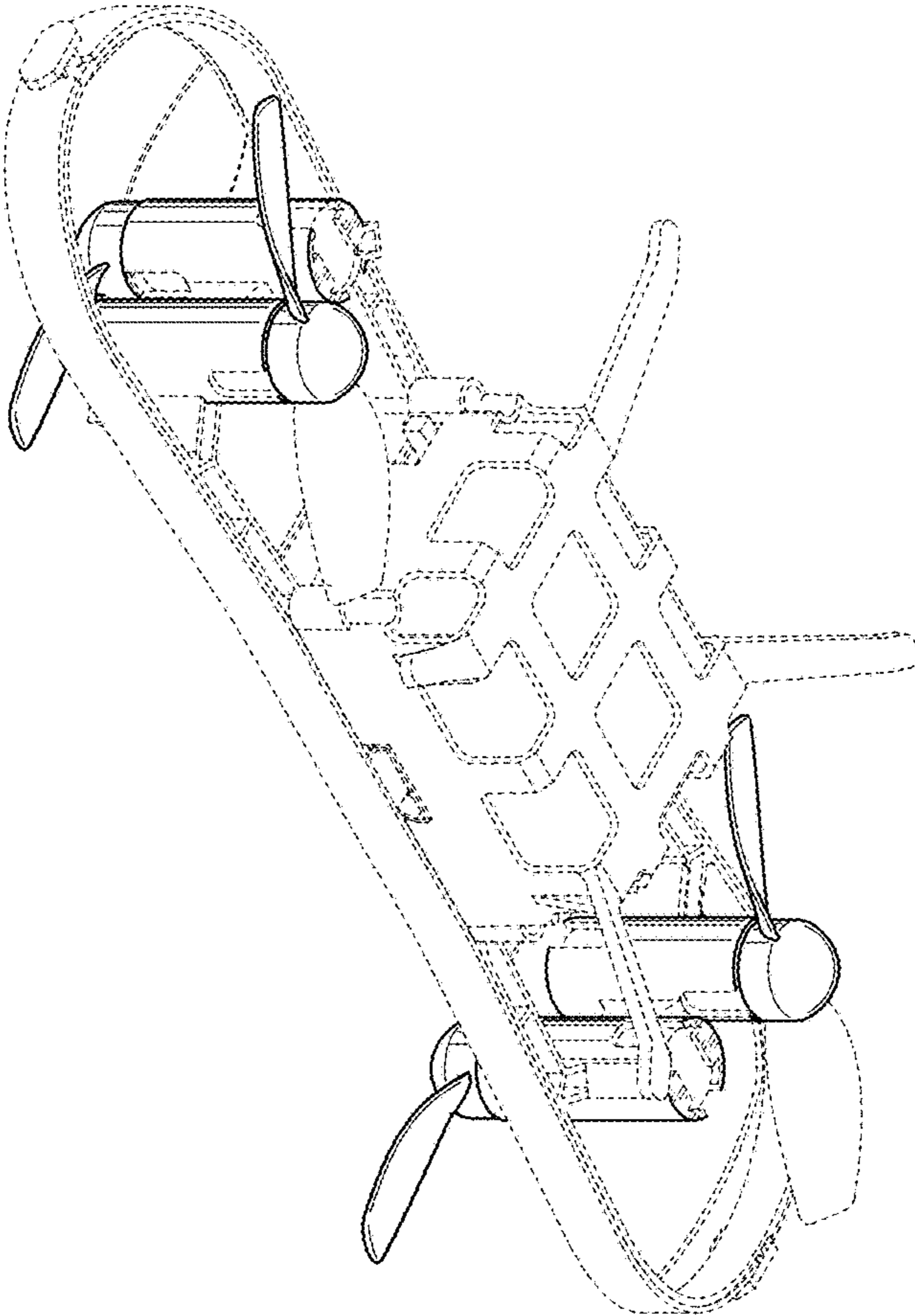


FIG. 3

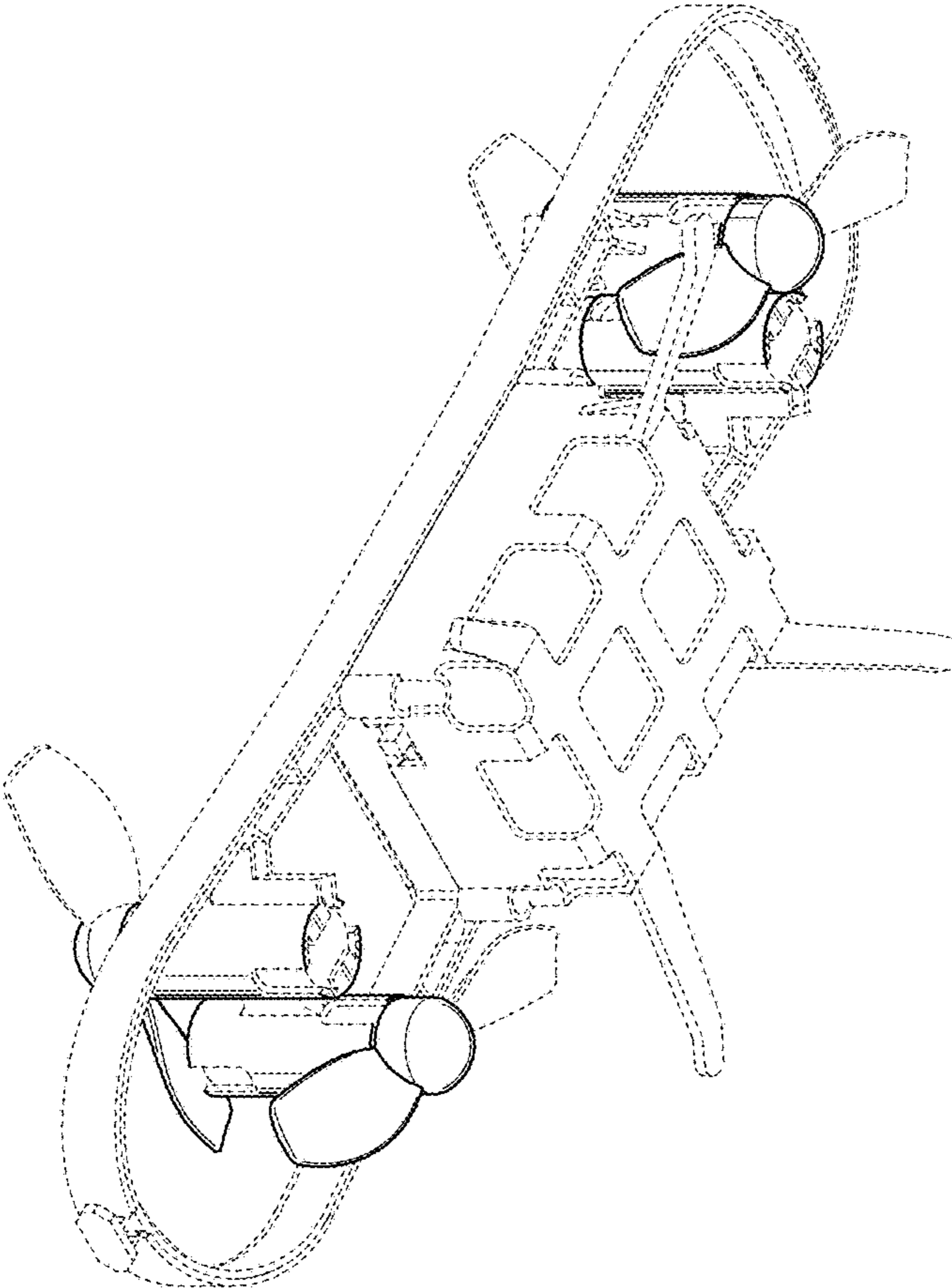


FIG. 4

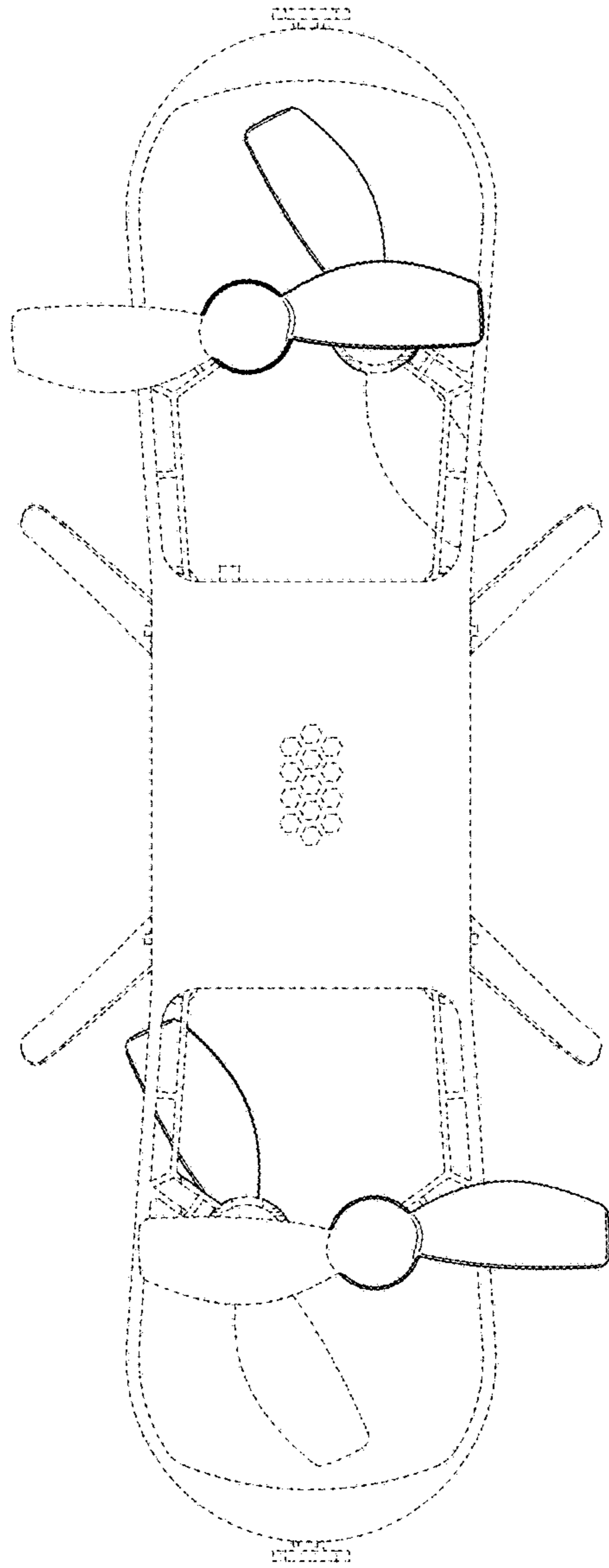


FIG. 5

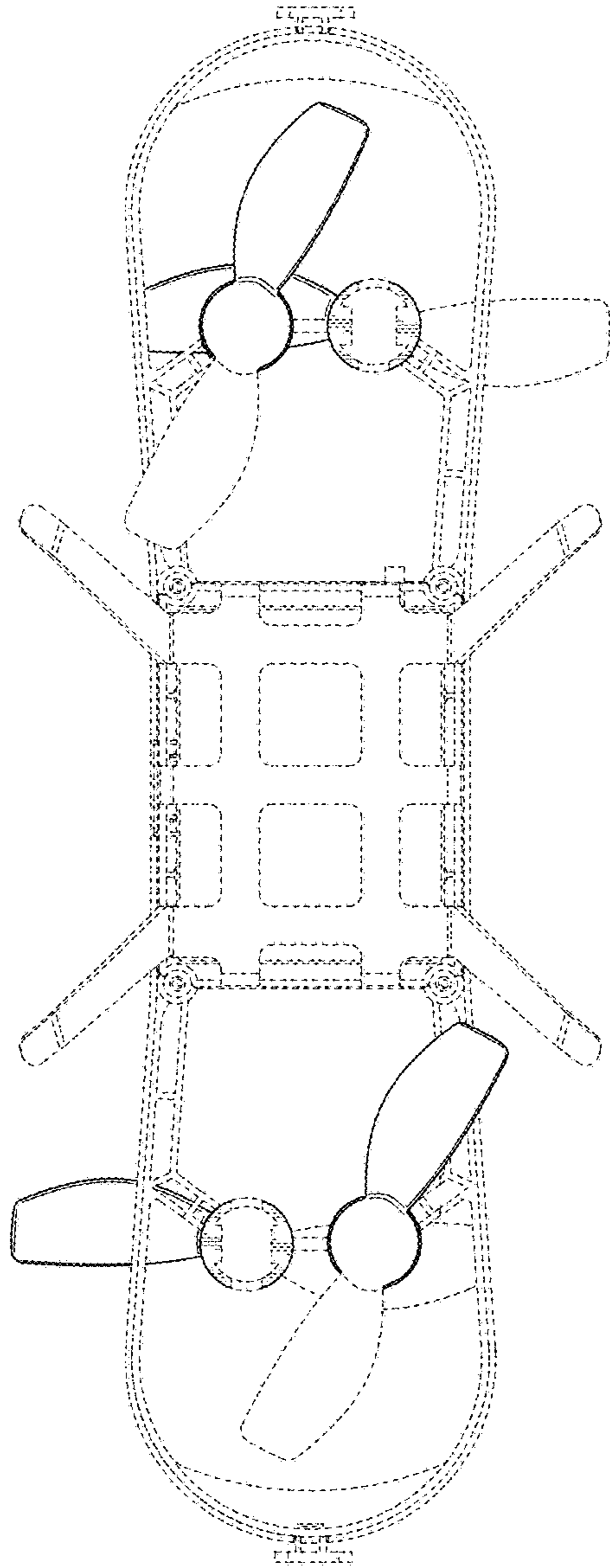


FIG. 6

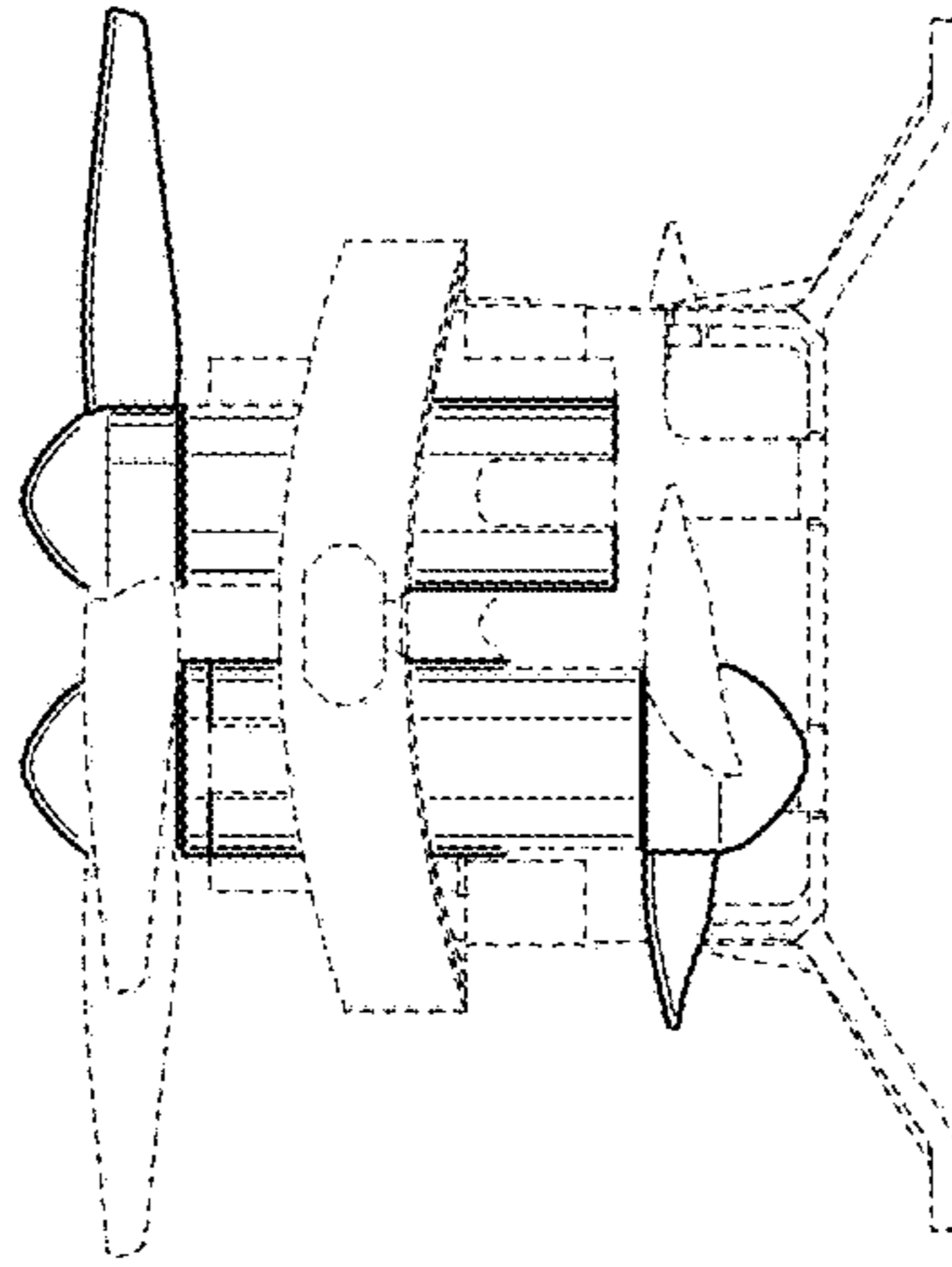


FIG. 8

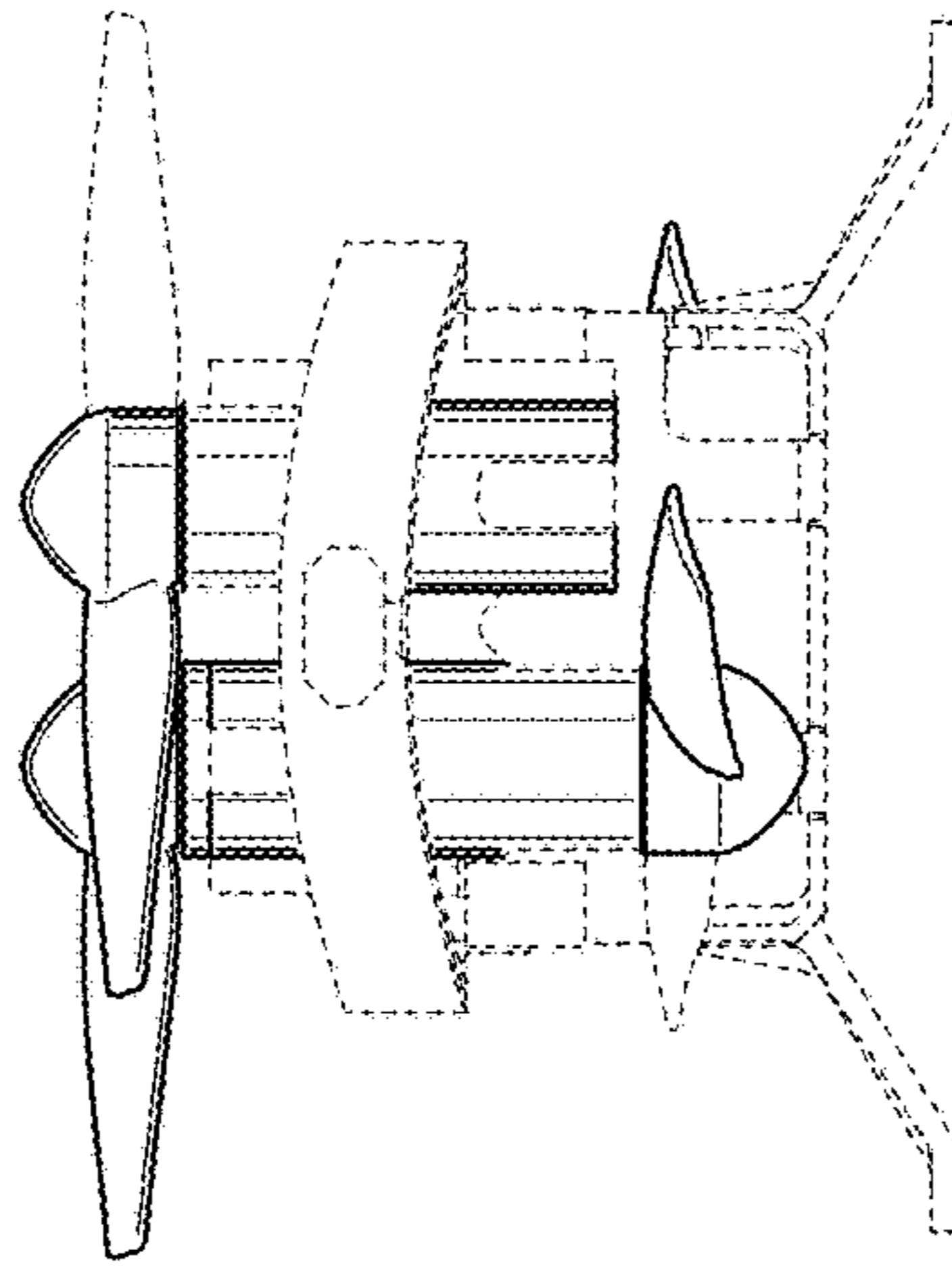


FIG. 7

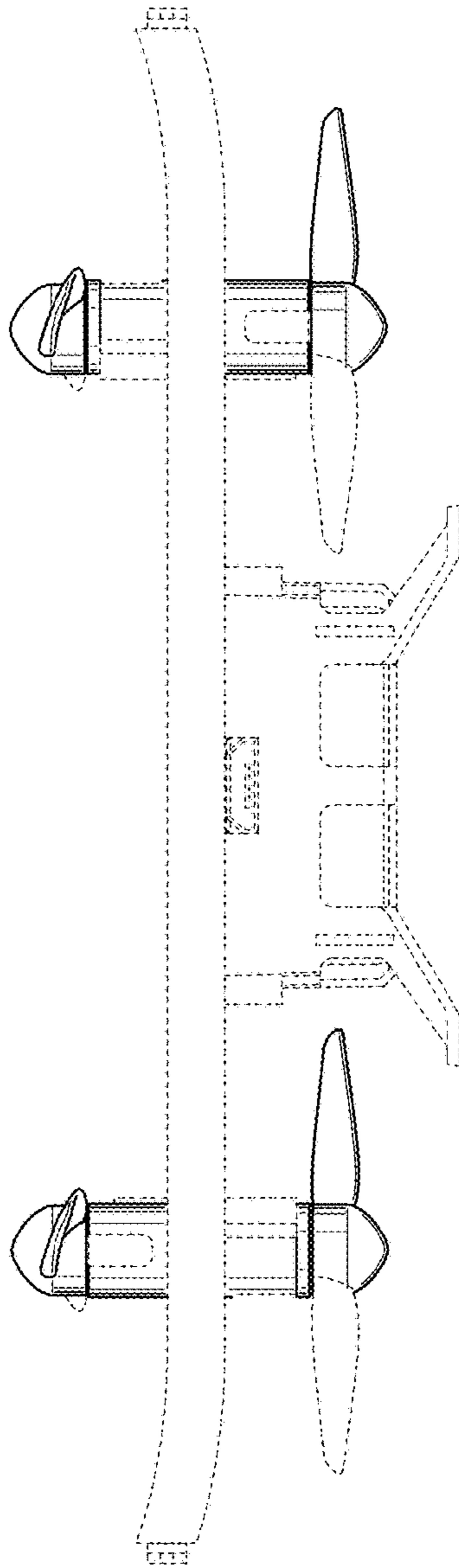


FIG. 9

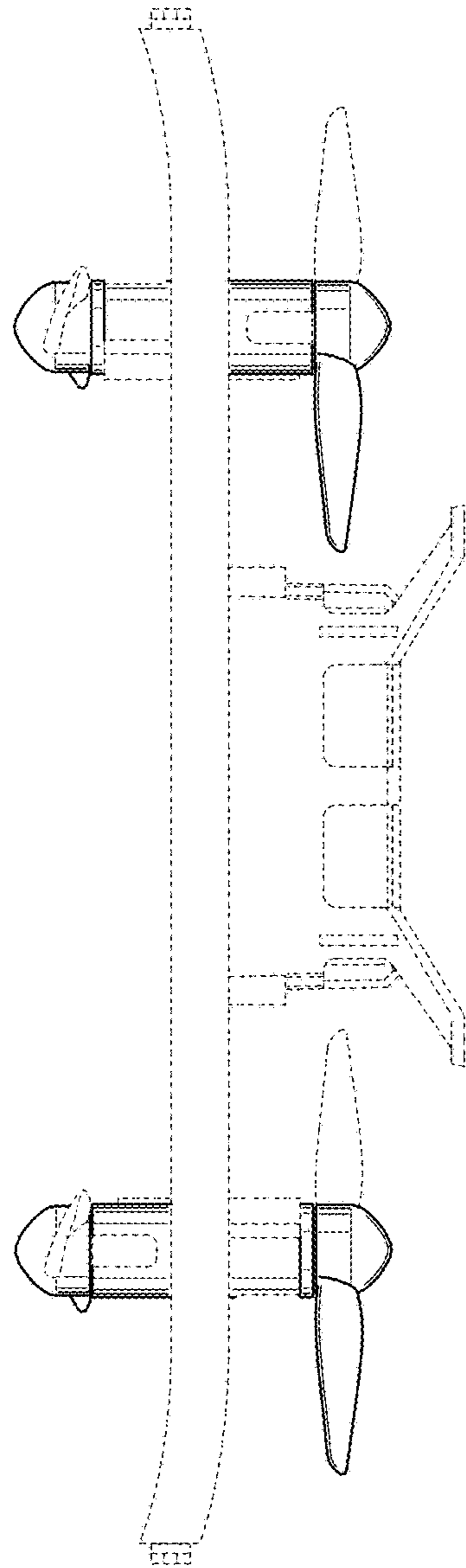


FIG. 10