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(12) **United States Design Patent** (10) **Patent No.:** **US D917,340 S**  
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(54) **AERIAL VEHICLE**  
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D187,567 S \* 3/1960 Steinhoff ..... D12/16.1  
D189,329 S \* 11/1960 Angelis ..... D12/332  
3,017,139 A \* 1/1962 Binder ..... B64C 39/062  
244/12.6  
D196,157 S \* 8/1963 Petry ..... D12/330  
D205,694 S \* 9/1966 Petry ..... D12/333  
3,350,035 A 10/1967 Schlieben  
D213,146 S \* 1/1969 Barnett ..... D12/333  
D219,690 S \* 1/1971 Matzenauer ..... D12/320  
D221,346 S \* 8/1971 Pennington ..... D21/451  
(Continued)

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

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(52) **U.S. Cl.**  
USPC ..... **D12/16.1; D12/319**

(58) **Field of Classification Search**  
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D21/436-455, 769, 771; D15/199;  
D32/21; D25/4; D6/514, 705.7, 706,  
D6/675, 675.3, 677.3  
CPC ..... B64C 2201/146; B64C 2201/027; B64C  
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B64C 39/04; B64C 5/02; B64C 23/065  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D181,599 S \* 12/1957 Nelson ..... D12/330  
D185,870 S \* 8/1959 Apostolescu ..... D21/452  
D186,744 S \* 11/1959 Rommel ..... D12/323

**FOREIGN PATENT DOCUMENTS**

CN 103625640 A 3/2014  
DE 102009033821 A1 1/2011  
(Continued)

**OTHER PUBLICATIONS**

Amazon wins FAA approval. by Annie Palmer. published Aug. 31, 2020. found online [Dec. 18, 2020] <https://www.cnbc.com/2020/08/31/amazon-prime-now-drone-delivery-fleet-gets-faa-approval.html>.\*

(Continued)

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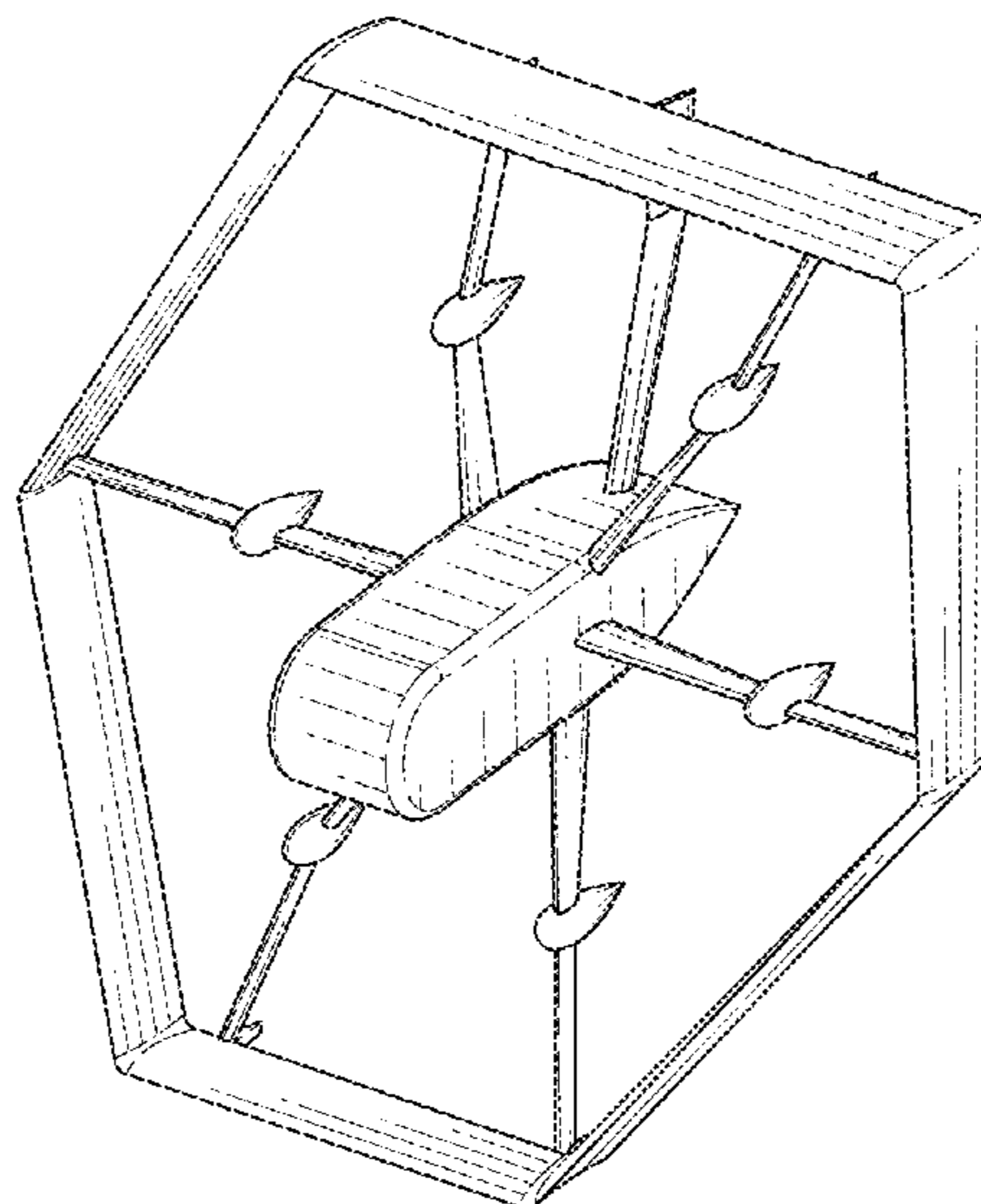
(57) **CLAIM**

The ornamental design for an aerial vehicle, as shown and described.

**DESCRIPTION**

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

**1 Claim, 5 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

3,834,654 A \* 9/1974 Miranda ..... B64C 39/068  
244/13  
3,981,460 A \* 9/1976 Ratony ..... B64C 39/068  
244/13  
4,146,199 A \* 3/1979 Wenzel ..... B64C 39/068  
244/36  
D258,672 S \* 3/1981 Butcher ..... D21/452  
D286,871 S \* 11/1986 Bunyard ..... D12/324  
D290,101 S \* 6/1987 Chung ..... D11/163  
4,856,736 A \* 8/1989 Adkins ..... B64C 39/068  
244/45 R  
D314,549 S \* 2/1991 Myers ..... D12/345  
D320,378 S \* 10/1991 Webster ..... D12/319  
D338,694 S \* 8/1993 Krebs ..... D21/452  
6,098,923 A \* 8/2000 Peters, Jr. .... B64C 3/16  
244/13  
D438,914 S \* 3/2001 O'Rourke ..... D21/452  
6,474,604 B1 \* 11/2002 Carlow ..... B64C 39/062  
244/198  
D503,140 S \* 3/2005 Blevio, Sr. .... D12/319  
D509,261 S \* 9/2005 Tebbe ..... D21/452  
D526,269 S \* 8/2006 Eadie ..... D12/327  
D624,971 S \* 10/2010 Cohen ..... D21/452  
8,128,019 B2 \* 3/2012 Annati ..... B64C 27/20  
244/12.3  
8,820,672 B2 \* 9/2014 Erben ..... B64C 39/024  
244/1 R  
D751,025 S \* 3/2016 Howell ..... D12/16.1  
D776,571 S \* 1/2017 Barrett ..... B64C 25/06  
D12/16.1  
9,567,075 B2 \* 2/2017 Tighe ..... B64C 29/02  
D795,784 S \* 8/2017 Guo ..... D12/328  
D813,143 S \* 3/2018 Belik ..... D12/326  
D817,812 S \* 5/2018 Whitten, Jr. .... D12/16.1  
D843,920 S \* 3/2019 Hernadi ..... D12/345  
D844,538 S \* 4/2019 Hernadi ..... D12/345  
D856,897 S \* 8/2019 Theys ..... D12/326  
D862,360 S \* 10/2019 Liang ..... D12/328  
D862,361 S \* 10/2019 Corning ..... D12/330  
10,518,880 B2 \* 12/2019 Kimchi ..... B64C 11/46  
2002/0106961 A1 \* 8/2002 Barthold ..... A63H 27/02  
446/36  
2006/0226281 A1 \* 10/2006 Walton ..... B64C 29/0033  
244/17.23

2007/0023581 A1 2/2007 La  
2007/0215748 A1 \* 9/2007 Robbins ..... B64C 29/0066  
244/12.5  
2010/0200703 A1 \* 8/2010 Cazals ..... B64C 39/068  
244/45 R  
2010/0224721 A1 \* 9/2010 Wood ..... B64C 39/068  
244/12.3  
2010/0252690 A1 \* 10/2010 Hothi ..... B64C 39/024  
244/7 B  
2011/0042509 A1 2/2011 Bevirt et al.  
2012/0286102 A1 \* 11/2012 Sinha ..... B64C 29/0025  
244/7 B  
2015/0053824 A1 \* 2/2015 De Smet ..... B64C 11/002  
244/175  
2017/0190443 A1 \* 7/2017 Fisher ..... B64C 29/02

FOREIGN PATENT DOCUMENTS

EP 1775214 A1 4/2007  
GB 2462452 B 2/2011  
WO 2001030652 A1 5/2001  
WO 2010015866 A2 2/2010  
WO 2015150529 A1 10/2015

OTHER PUBLICATIONS

Amazon Prime. by Zacc Dukowitz. dated Jun. 6, 2019. found online [Dec. 18, 2020] <https://uavcoach.com/prime-air-drone/>.  
Andrew Rosenblum et al, "The Jets of the Future," May 1, 2012, Retrieved from the Internet on Mar. 27, 2018: URL: <https://www.popsci.com/technology/article/2012-04/jets-future>, pp. 1-9.  
Dirtflare, "Ring Wing VTOL!!!," Specifications Ring Wing VTOL!!!, Aug. 1, 2016, Retrieved from the Internet on Mar. 22, 2018: URL: <https://www.simpleplanes.com/a/Mo2vSy/Ring-Wing-VTOL>, pp. 1-2.  
Dukowitz, Zacc, "Amazon Prime Air Unveils New Delivery Drone, Plans to Start Deliveries Soon," UAV Coach, dated Jun. 6, 2019, found online [Dec. 18, 2020] <https://uavcoach.com/prime-air-drone/>, 13 pages.  
Palmer, Annie, "Amazon wins FAA approval for Prime Air drone delivery fleet," CNBC, published Aug. 31, 2020, found online [Dec. 23, 2020] <https://www.cnbc.com/2020/08/31/amazon-prime-now-drone-delivery-fleet-gets-faa-approval.html>, 5 pages.

\* cited by examiner

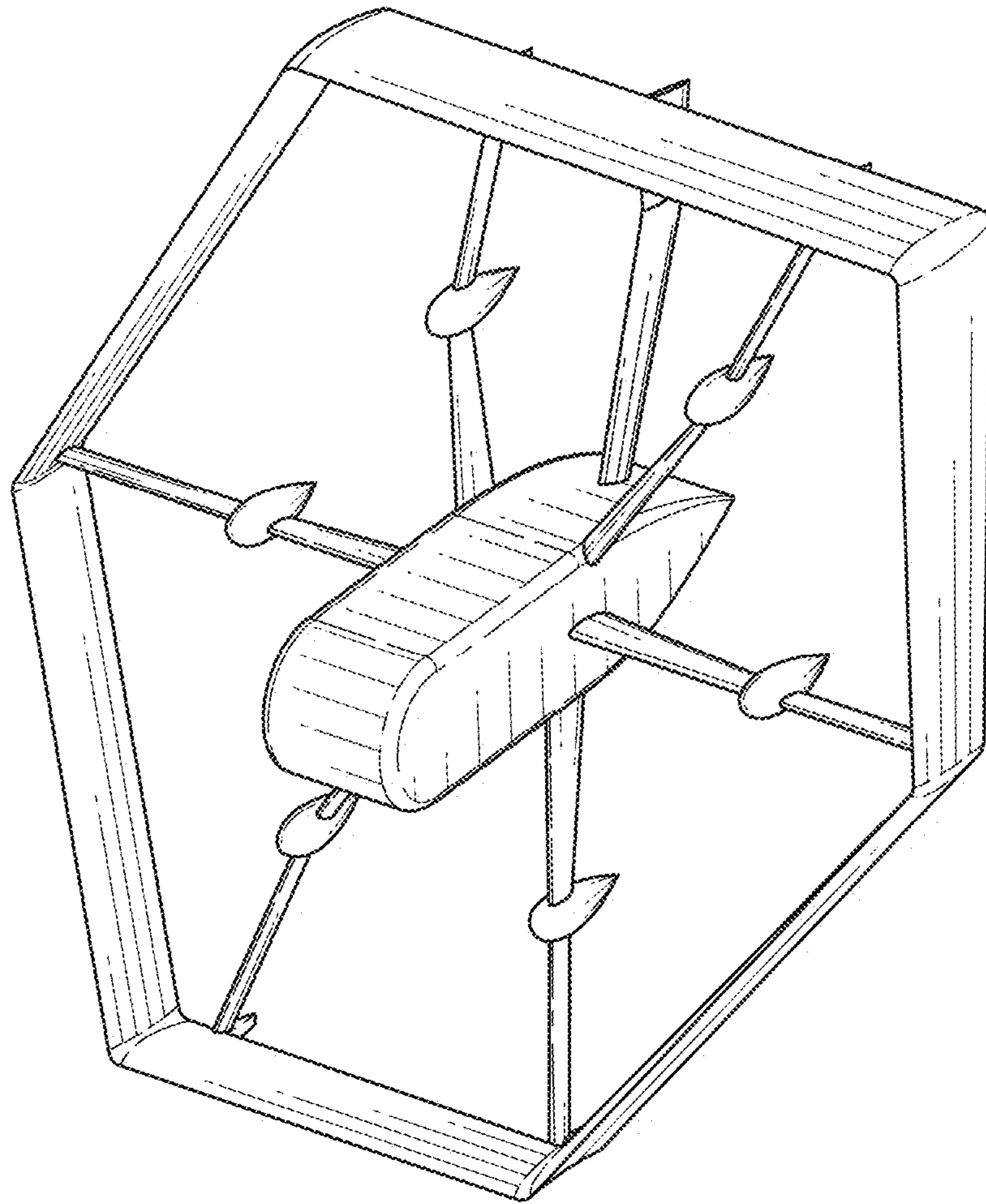
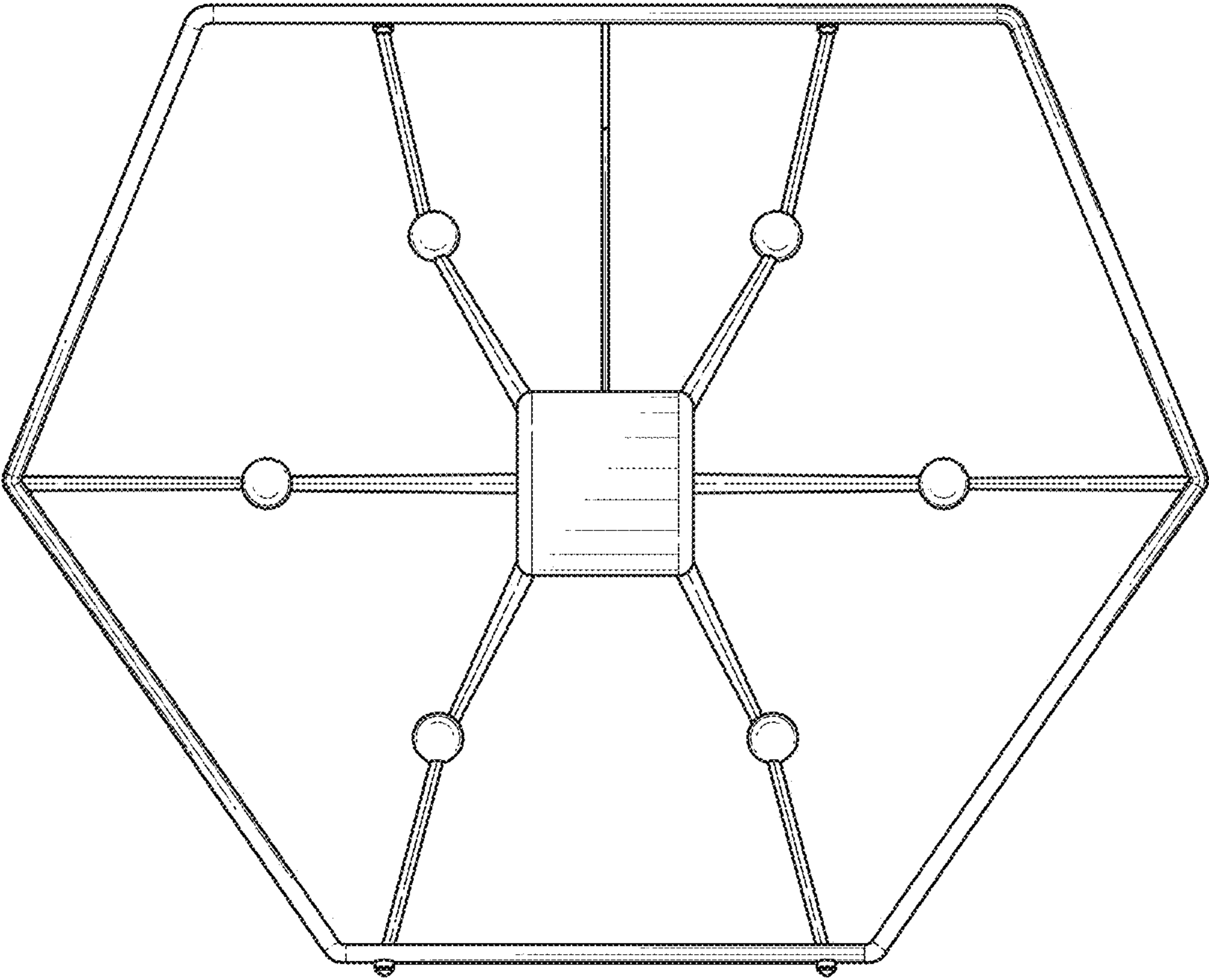


FIG. 1



**FIG. 2**

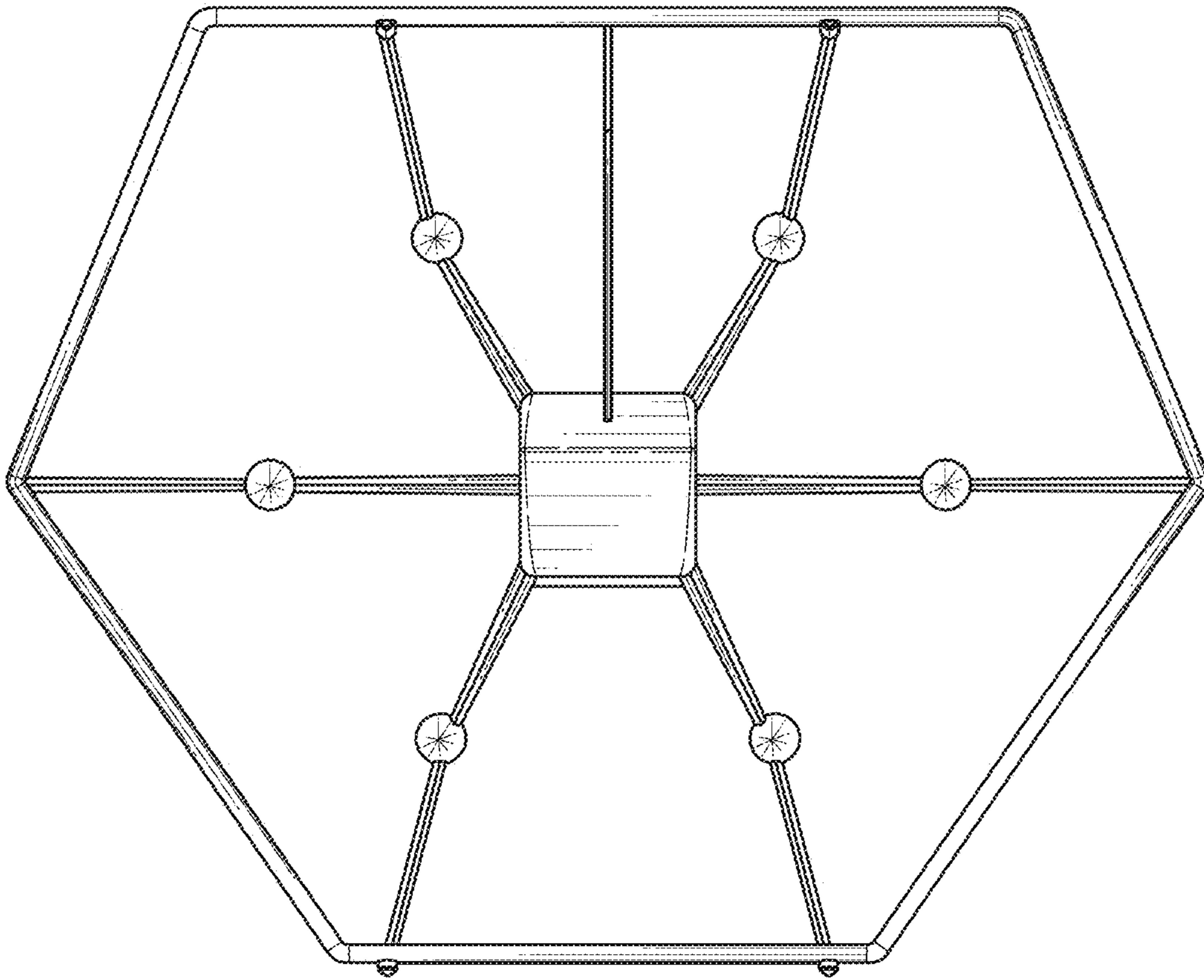


FIG. 3

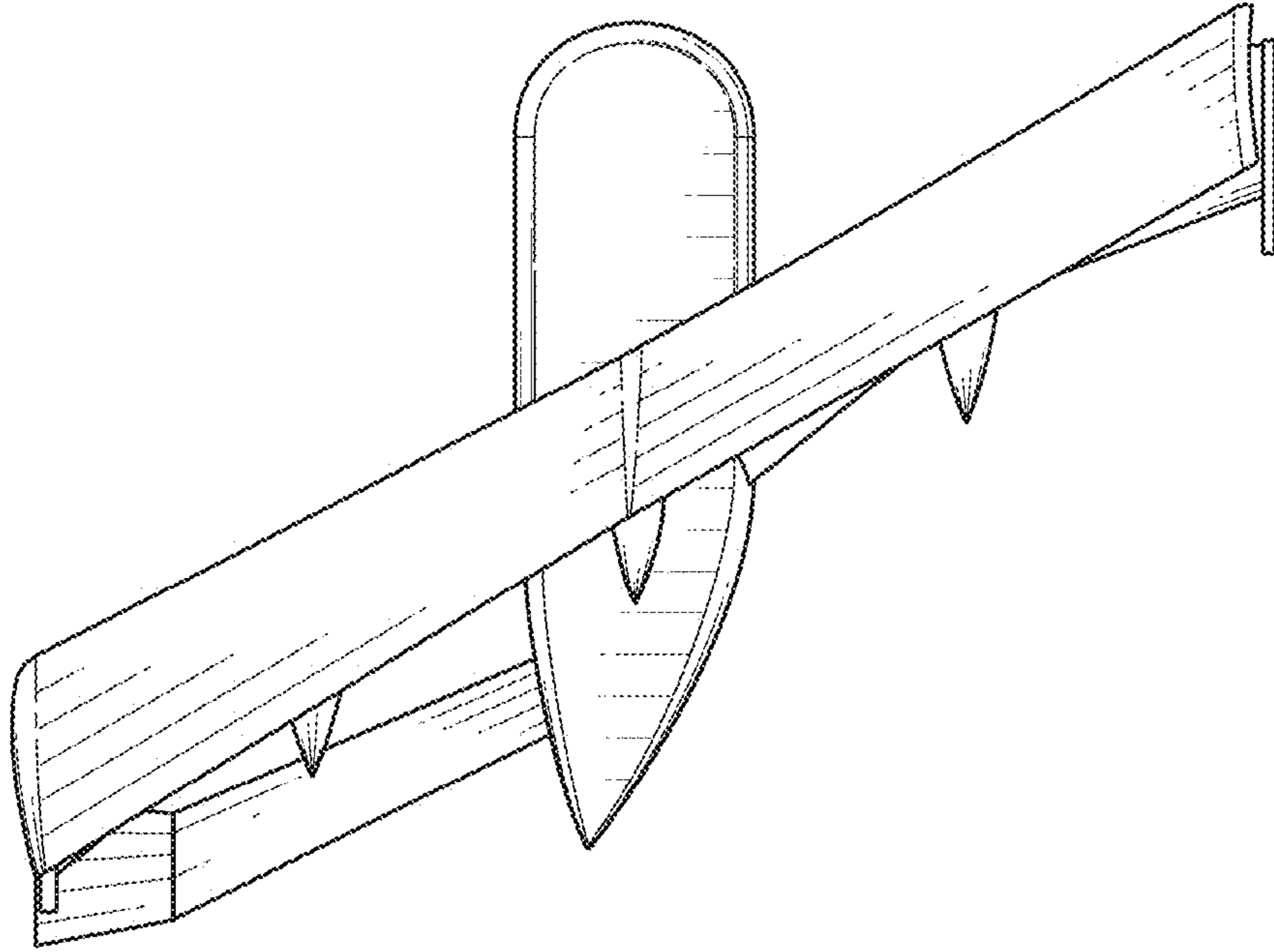


FIG. 5

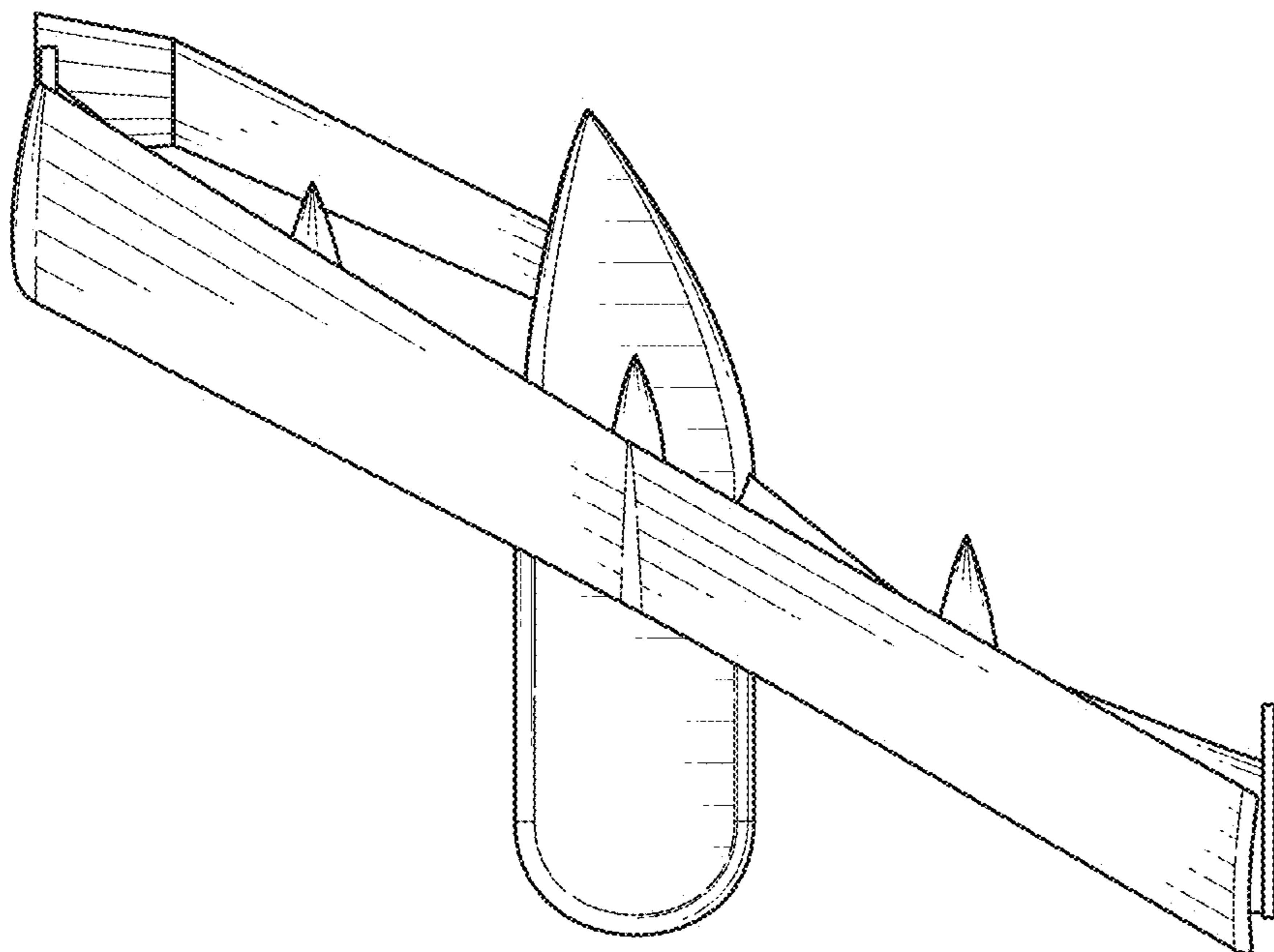
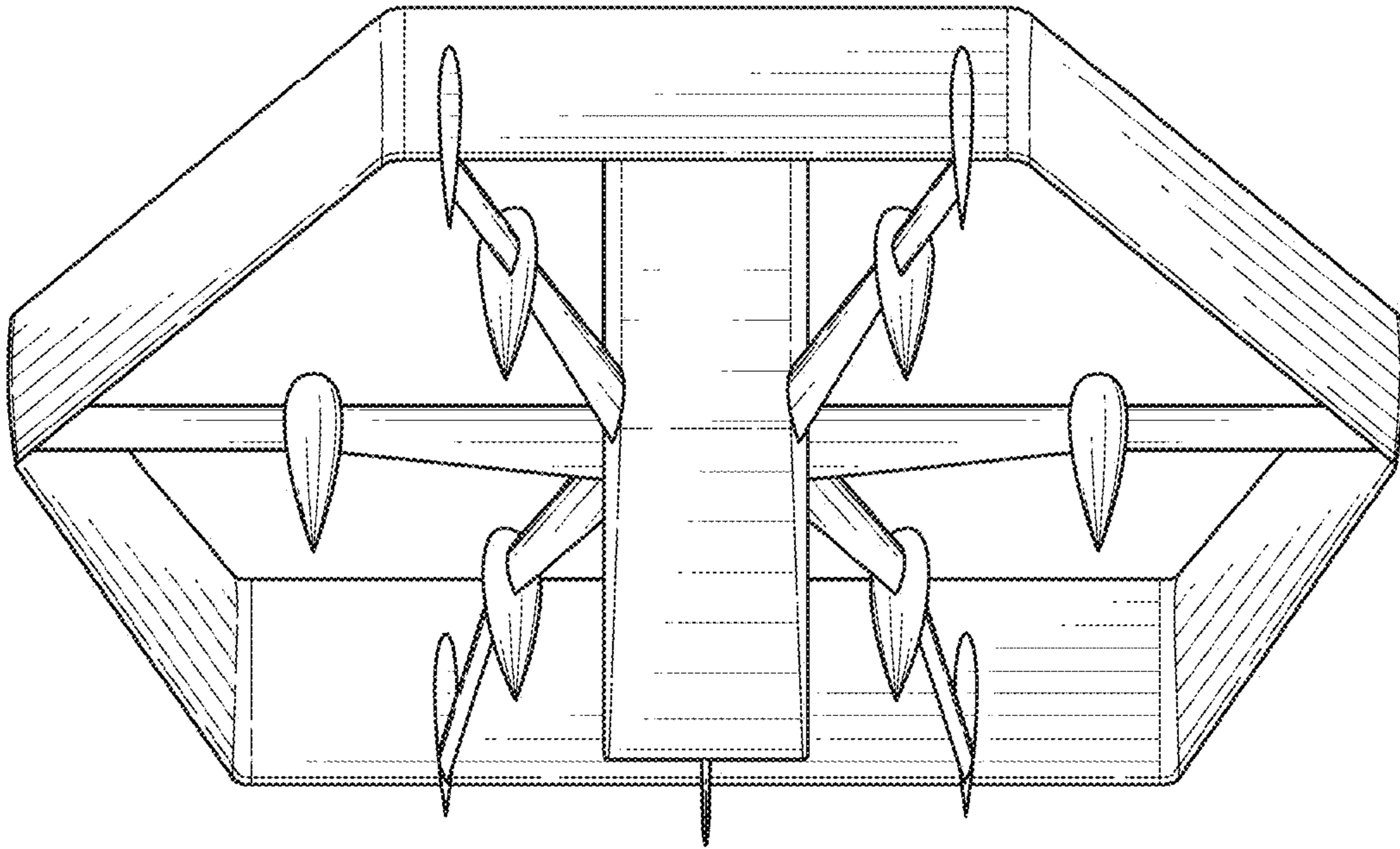
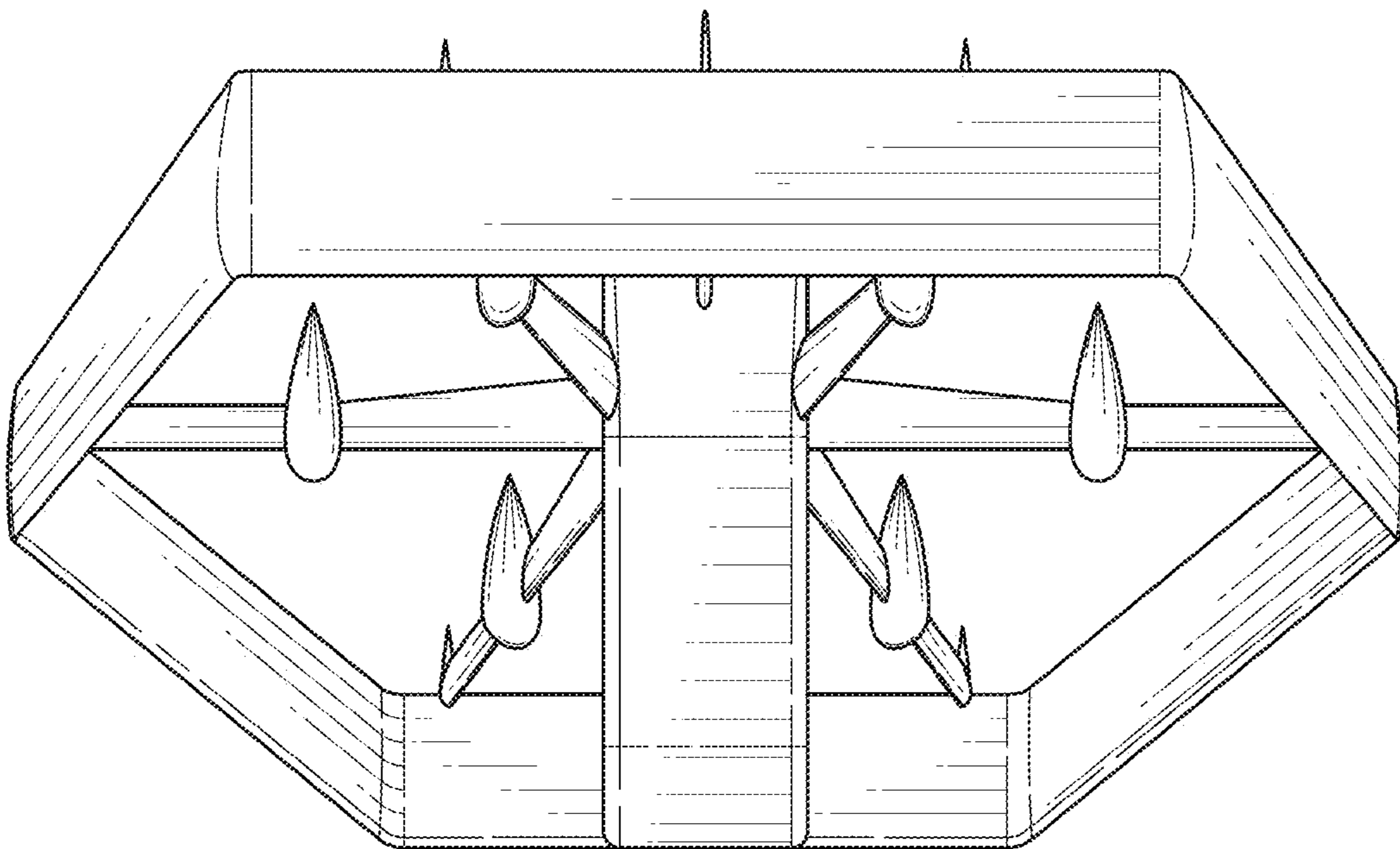


FIG. 4



**FIG. 6**



**FIG. 7**