



US00D864837S

(12) **United States Design Patent** (10) **Patent No.:** **US D864,837 S**  
**Catto** (45) **Date of Patent:** **\*\* Oct. 29, 2019**

- (54) **ELLIPTICAL PROPELLER**
- (71) Applicant: **North American Aerospace Corporation**, West Kelowna (CA)
- (72) Inventor: **Craig Catto**, Jackson, CA (US)
- (73) Assignee: **NORTH AMERICAN AEROSPACE CORPORATION**, British Columbia (CA)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/660,785**
- (22) Filed: **Aug. 22, 2018**
- (51) **LOC (12) Cl.** ..... **12-16**
- (52) **U.S. Cl.**  
USPC ..... **D12/214**
- (58) **Field of Classification Search**  
USPC ..... D12/214, 317, 319, 344, 16.1, 328, 330, D12/345; D15/4, 5; D21/441; D23/411, D23/413; D13/115  
CPC .... B63H 1/18; B63H 1/20; B63H 1/26; B64C 11/00; B64C 11/02; B64C 11/16; B64C 27/08; B64C 39/024; B64C 2201/108  
See application file for complete search history.

- (56) **References Cited**  
U.S. PATENT DOCUMENTS  
123,274 A \* 1/1872 McCay ..... F04D 29/34  
416/214 R  
D33,386 S \* 10/1900 Rondell ..... D12/214  
746,007 A \* 12/1903 Bruncker ..... F04D 29/666  
416/203  
1,665,789 A \* 4/1928 Nichols ..... B01F 7/00016  
416/219 R  
1,991,095 A \* 2/1935 Hochstetter ..... F04D 29/386  
416/238  
D138,866 S \* 9/1944 Orsett ..... D12/214  
D141,235 S \* 5/1945 Birsh ..... D12/214

- 3,002,266 A \* 10/1961 Lynn ..... B63H 1/18  
29/889.6
- D262,791 S \* 1/1982 Piarulli ..... 416/197 R
- D319,210 S \* 8/1991 Koepsel ..... D12/214
- 5,104,292 A \* 4/1992 Koepsel ..... B63H 1/26  
416/223 R
- 5,236,310 A \* 8/1993 Koepsel ..... B63H 1/26  
416/223 R
- D452,205 S \* 12/2001 Eisenbraun ..... D12/162
- 6,644,926 B1 \* 11/2003 Vandyke ..... B63H 1/18  
416/228
- 7,025,642 B1 \* 4/2006 Baylor ..... B63H 1/14  
416/197 R
- 7,357,686 B2 \* 4/2008 Lin ..... B63H 1/20  
416/153
- D575,219 S \* 8/2008 Duffield ..... D12/214
- D576,538 S \* 9/2008 Schulze ..... D12/214

(Continued)

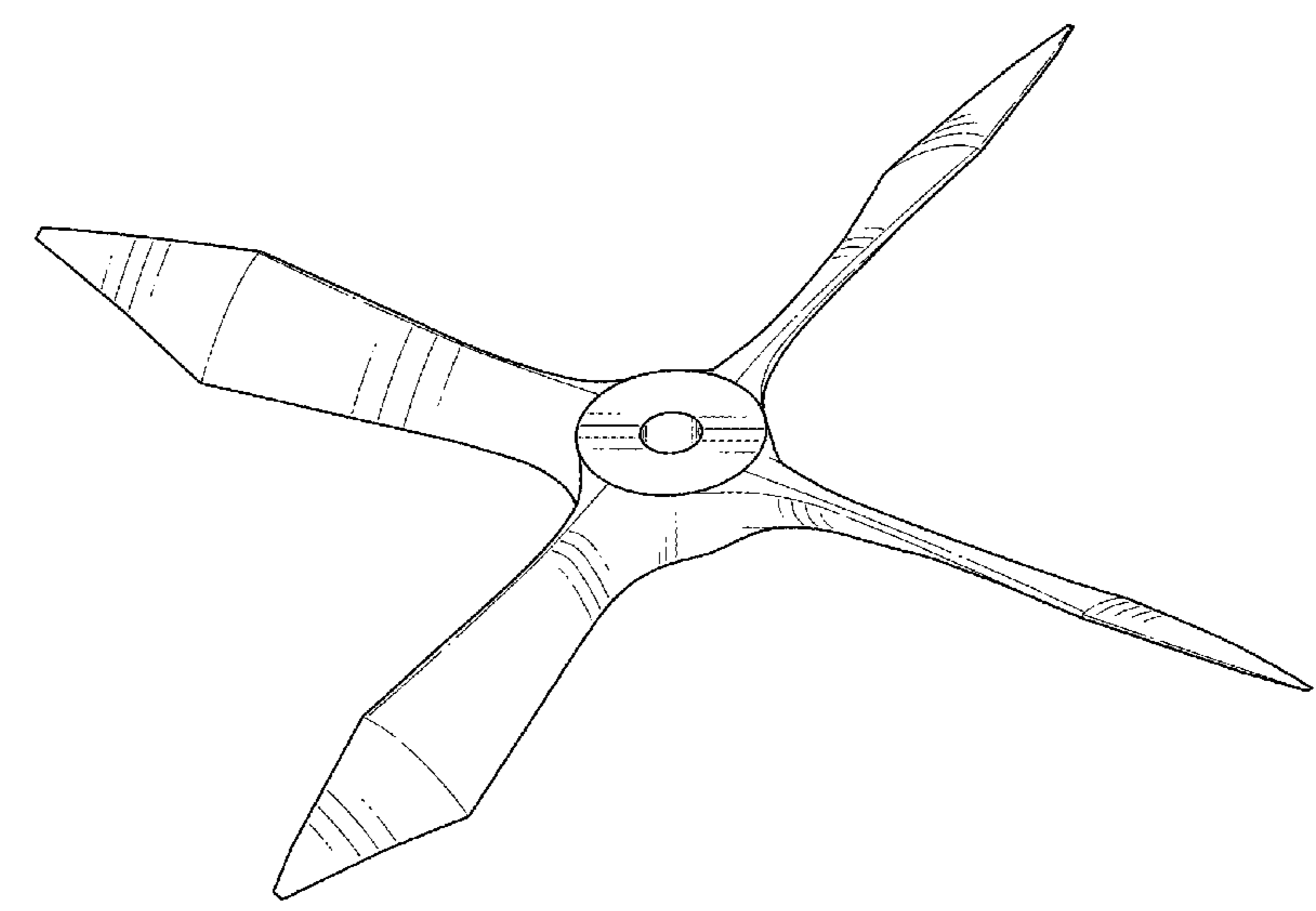
*Primary Examiner* — Michelle E. Wilson  
*Assistant Examiner* — Clese Moore, Jr.  
(74) *Attorney, Agent, or Firm* — Fenwick & West LLP

(57) **CLAIM**  
The ornamental design for an elliptical propeller, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of an elliptical propeller; FIG. 2 is a rear perspective view thereof; FIG. 3 is a top elevational view thereof; FIG. 4 is a bottom elevational view thereof; FIG. 5 is a left side elevational view thereof; FIG. 6 is a right side elevational view thereof; FIG. 7 is a front plan view thereof; and, FIG. 8 is a rear plan view thereof.  
The broken lines in the drawings showing portions of the elliptical propeller are included for the purpose of illustrating environmental structure and form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

7,429,163 B2 *	9/2008	Patterson	.....	B63H 1/26
				416/198 R
D658,563 S *	5/2012	Hwang	.....	D12/214
D769,786 S *	10/2016	Xiao	.....	D12/214
D826,132 S *	8/2018	Hanscom	.....	D12/214

\* cited by examiner

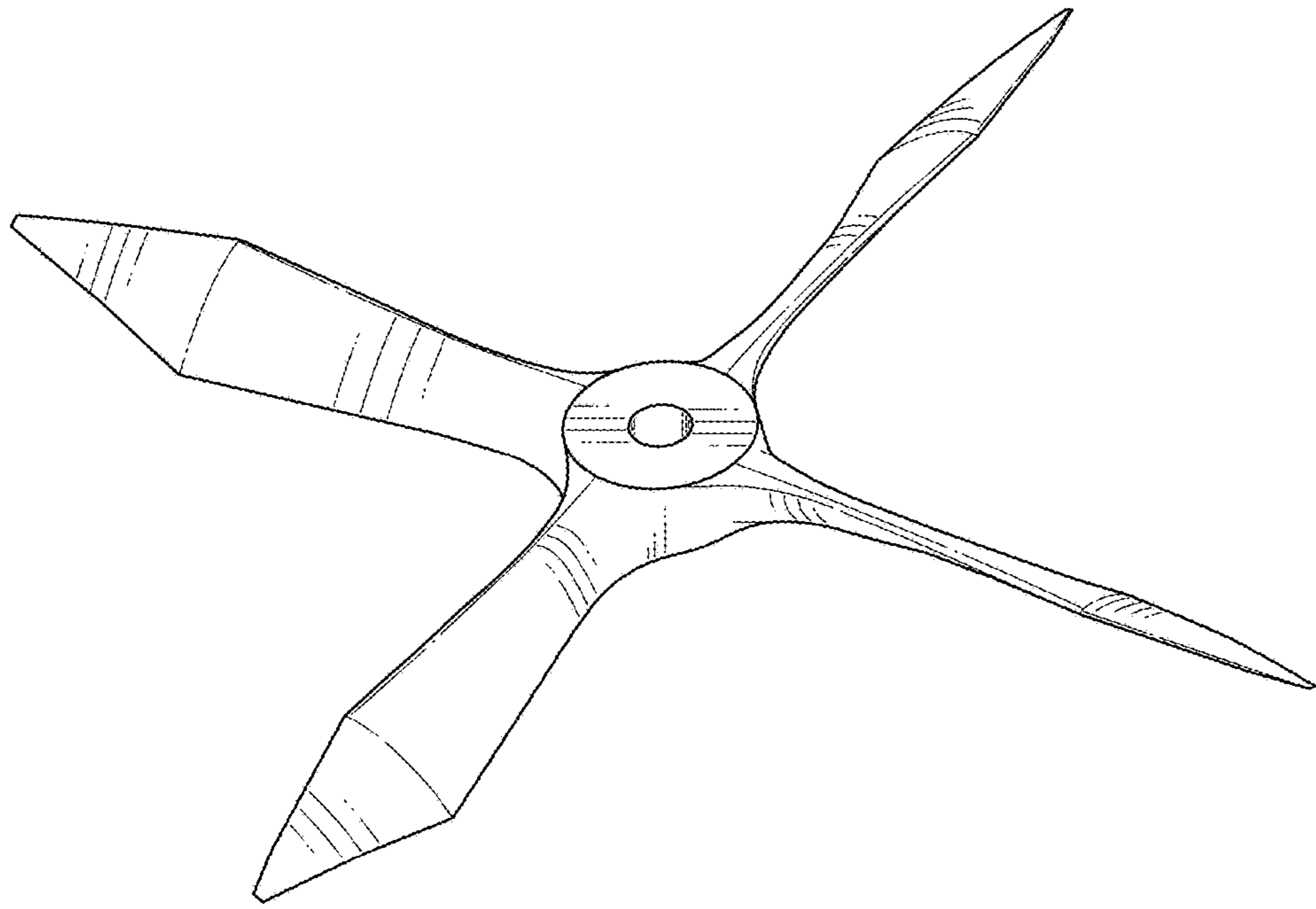


FIG. 1

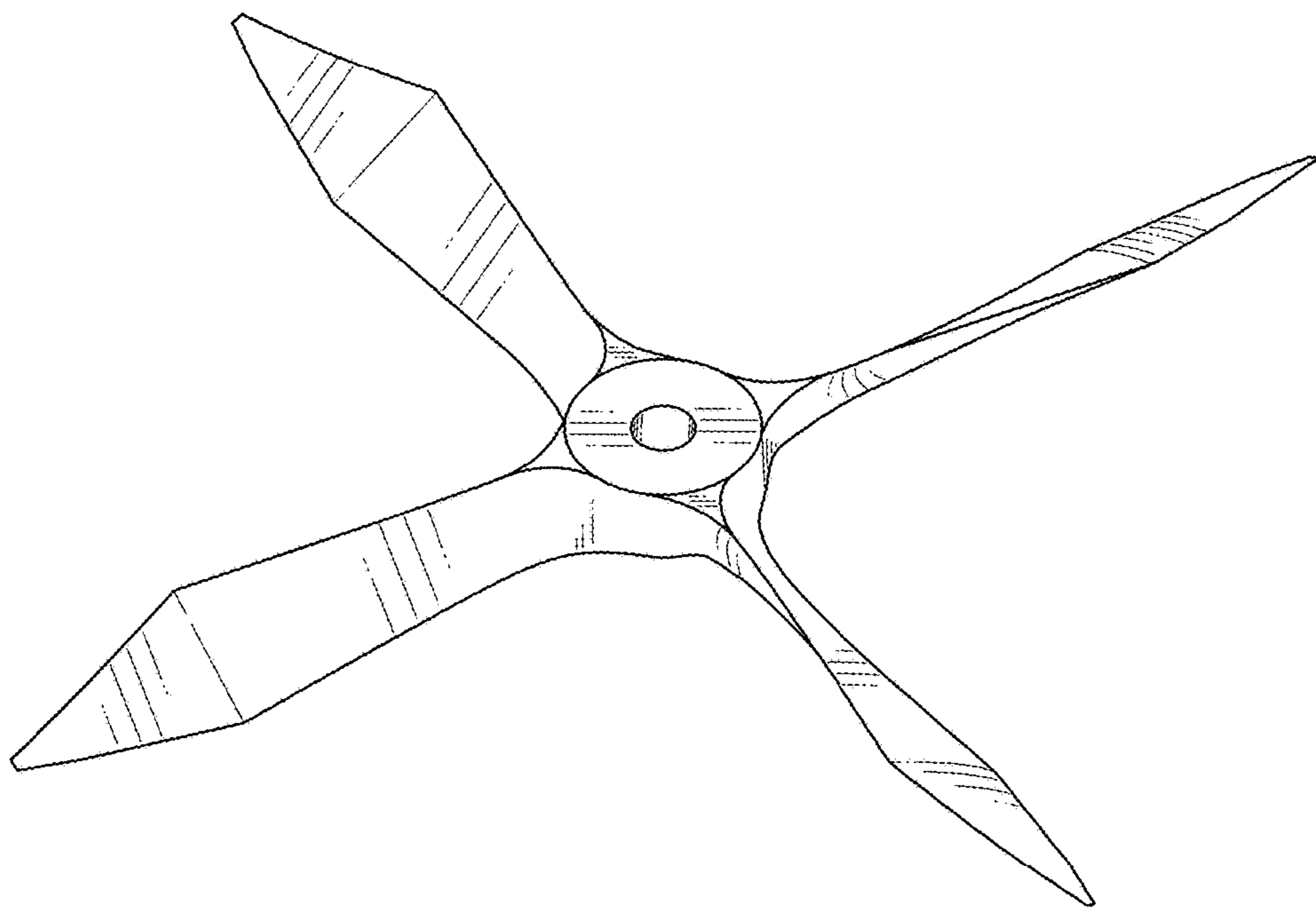


FIG. 2



FIG. 3

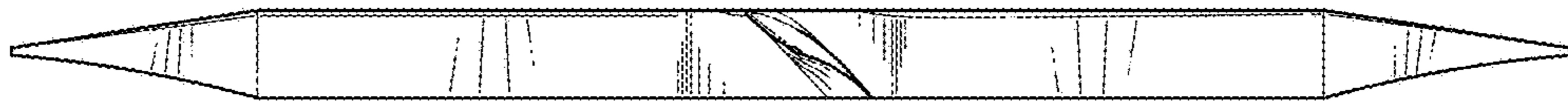


FIG. 4



FIG. 5



FIG. 6



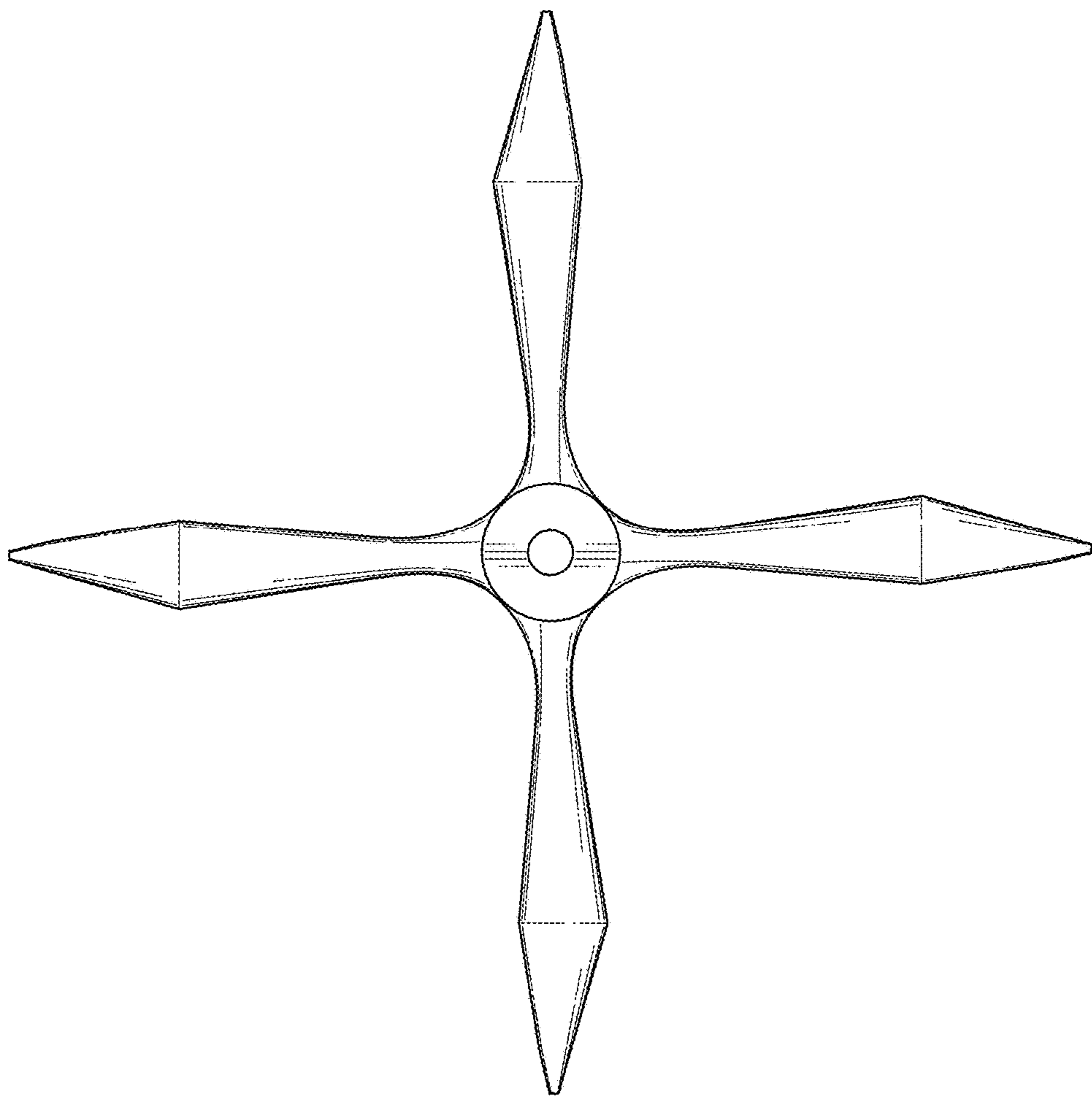


FIG. 7

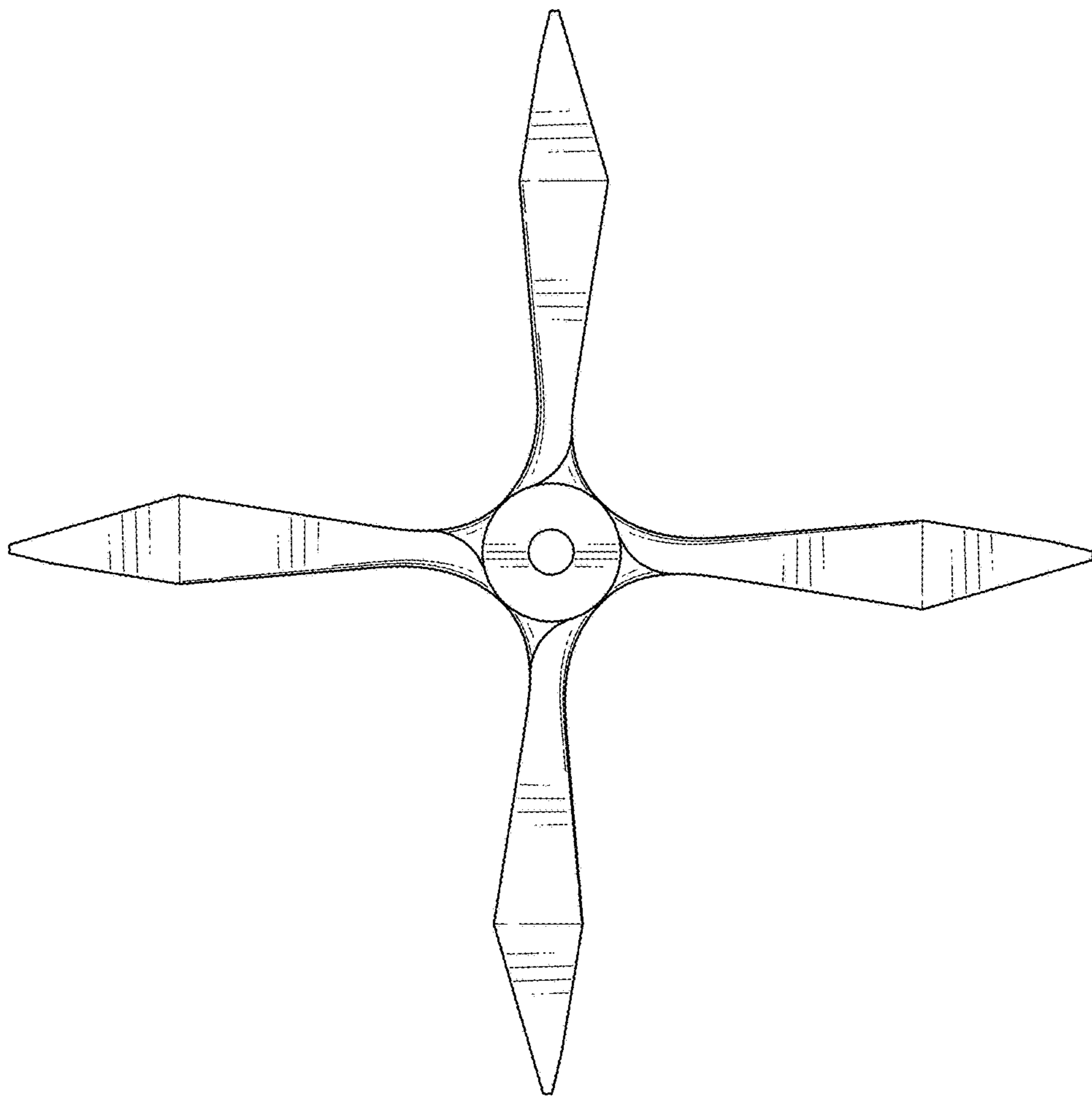


FIG. 8