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(12) **United States Design Patent**
Noble et al.

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- (54) **FAN**
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Chan, Selangor (MY)
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Lexington, KY (US)

1,384,308	A *	7/1921	De Giers	B64C 11/20 156/221
1,432,710	A *	10/1922	MacMechen	B64C 11/005 416/210 R
1,522,771	A *	1/1925	Fales	.....	G01P 5/06 416/204 R
1,539,273	A *	5/1925	Reed	.....	B64C 11/04 416/214 R
1,604,758	A *	10/1926	Reed	.....	B64C 11/04 416/212 R
1,623,420	A *	4/1927	Leinweber	.....	B64C 11/18 416/243

(Continued)

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

FOREIGN PATENT DOCUMENTS

(21) Appl. No.: **29/531,907**

AU	325331 S	3/2009
AU	328015 S	10/2009

(Continued)

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(52) **U.S. Cl.**

USPC **D23/385**

(58) **Field of Classification Search**

USPC D14/356; D10/93, 104.1, 108, 114;
D8/4, 25, 52; D17/20, 22, 23;
D23/323, 328, 333, 335, 336, 337, 341,
D23/352, 357, 370, 385, 386, 397, 399, 400,
D23/406, 411, 413, 499
CPC H01R 13/5213; B60Q 1/04; B60Q 1/26;
G10D 3/006; G10D 13/023; G10D 13/027;
B25B 15/001; G10H 3/143; G10H 3/181;
G10G 5/005; A42B 1/04; B64C 11/04;
B64C 11/16; B64C 11/18; B64C 11/20;
F03D 3/062; F03D 11/04; F04D 19/002;
F04D 25/068; F04D 25/088; F24F 1/0018
See application file for complete search history.

OTHER PUBLICATIONS

HaikuWithSenseME-Black—from TinEye, image post date Jun. 7,
2014, site visited Apr. 16, 2016, (online), <https://www.tineye.com/search/4a9cabb9aa9ebebe894bd693e56e486a84703fcb/?sort=crawl_date&order=asc>.*

(Continued)

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Assistant Examiner — Sean D Lough
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(57) **CLAIM**

The ornamental design for a fan, as shown and described.

DESCRIPTION

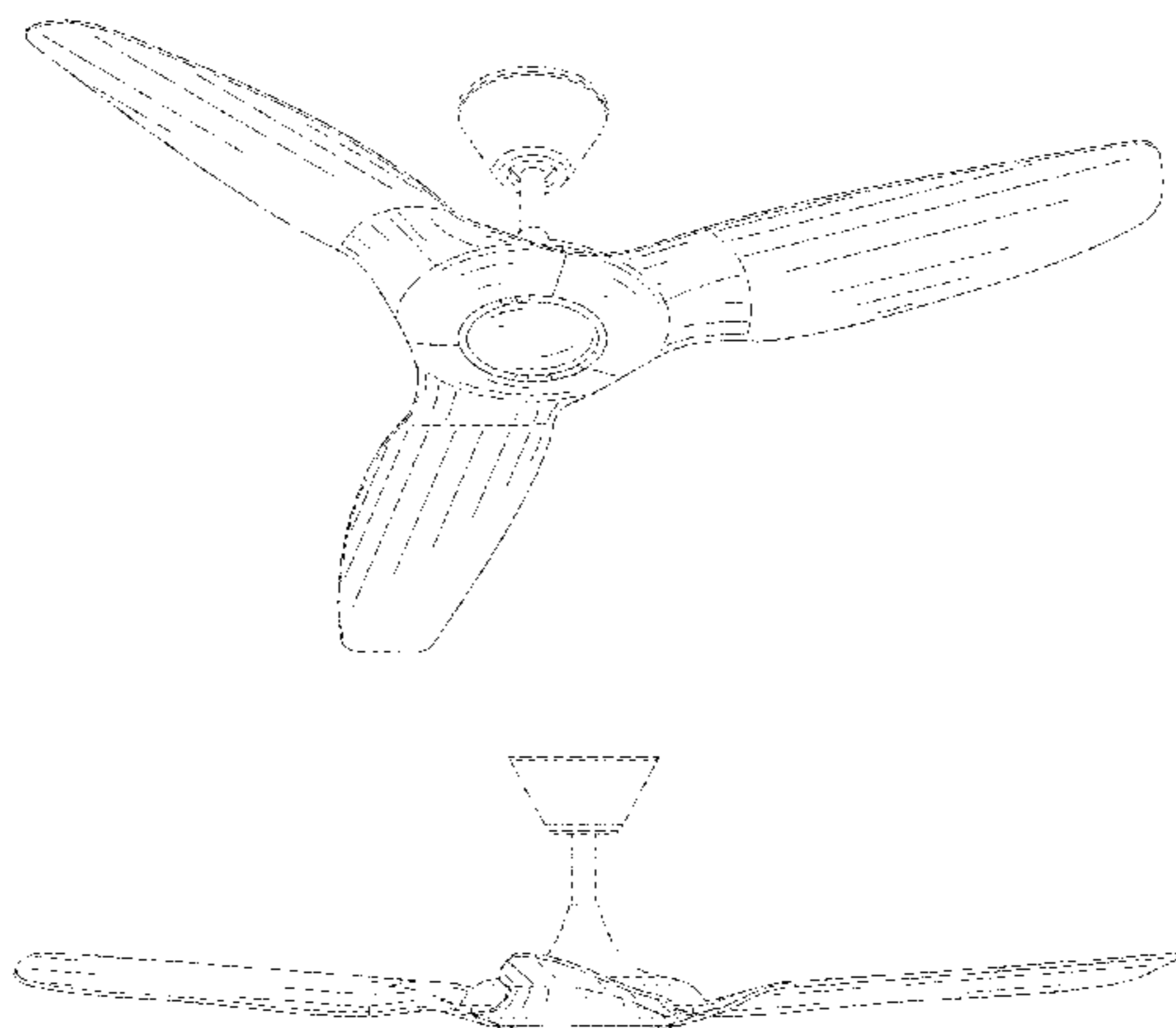
FIG. 1 is a bottom perspective view of the fan;
FIG. 2 is a top perspective view of the fan;
FIG. 3 is a front view of the fan;
FIG. 4 is a right side view of the fan;
FIG. 5 is a rear view of the fan;
FIG. 6 is a left side view of the fan;
FIG. 7 is a top view of the fan; and,
FIG. 8 is a bottom view of the fan.
The broken line depictions form no part of the claimed design.

1 Claim, 6 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,133,191	A *	3/1915	Staples	.....	F04D 29/34 416/214 R
1,166,907	A *	1/1916	Heath	.....	F01D 5/282 416/230
1,372,076	A *	3/1921	Luense	.....	B64C 11/04 219/104



(56)

References Cited

U.S. PATENT DOCUMENTS

1,650,464	A *	11/1927	Reed	B64C 11/04 416/207	D512,498	S	12/2005	Hidalgo	
1,831,394	A *	11/1931	Reed	B64C 11/20 416/204 R	D516,201	S *	2/2006	Badarello	D23/411
D97,601	S	11/1935	Funk		D517,675	S	3/2006	Young	
D105,260	S	7/1937	Brannan		7,008,192	B2	3/2006	Hidalgo	
D113,347	S	1/1938	Funk		D521,625	S	5/2006	Young	
2,104,207	A *	1/1938	Miles	B64C 11/16 416/234	D522,121	S	5/2006	Hidalgo	
2,222,444	A *	11/1940	Schmidt	B64C 11/16 416/203	7,037,074	B2	5/2006	Hoshino	
2,269,287	A *	1/1942	Roberts	F04D 29/384 416/238	D525,353	S	7/2006	Hidalgo	
D131,699	S	3/1942	Funk		D525,699	S	7/2006	Davenport et al.	
2,346,552	A *	4/1944	Brotz	B64C 11/20 416/236 R	D528,645	S	9/2006	Young	
D185,104	S *	5/1959	Twist	D23/413	D530,414	S	10/2006	Hoshino	
4,073,598	A	2/1978	Mizutani et al.		D535,011	S	1/2007	Gajewski	
D252,390	S *	7/1979	Voisard	416/214 R	D535,387	S	1/2007	Gajewski	
D268,521	S	4/1983	Clemente		D535,388	S	1/2007	Gajewski	
D283,156	S	3/1986	Mandelli		D536,083	S *	1/2007	Gajewski	D23/377
D290,748	S	7/1987	Kawai		D542,905	S *	5/2007	Young	D23/377
D292,313	S	10/1987	Kawai		7,210,910	B1	5/2007	Parker et al.	
4,974,633	A *	12/1990	Hickey	B63H 9/06 137/561 R	D549,315	S	8/2007	Gajewski	
D334,232	S	3/1993	Searle		D549,814	S	8/2007	Gajewski	
D345,790	S	4/1994	Caldwell		D551,335	S	9/2007	Gajewski	
D355,027	S	1/1995	Young		D553,731	S *	10/2007	Bucher	D23/411
D357,978	S	5/1995	Young		D556,938	S *	12/2007	Russello	D26/89
D396,281	S	7/1998	Gee, II et al.		D561,326	S	2/2008	Gajewski	
D396,534	S	7/1998	Tsuji et al.		D562,960	S	2/2008	Gajewski	
D397,418	S	8/1998	Tsuji et al.		D570,466	S	6/2008	Gajewski	
D397,419	S	8/1998	Tsuji et al.		7,413,410	B2 *	8/2008	Shahin	F04D 29/384 416/238
D399,554	S	10/1998	Tsuji et al.		D576,265	S *	9/2008	Bucher	D23/377
D399,555	S	10/1998	Gee, II et al.		7,481,626	B2	1/2009	Gajewski	
D407,155	S	3/1999	Liu		D595,400	S	6/2009	Young	
5,920,127	A *	7/1999	Damron	B60K 16/00 180/65.31	D596,734	S *	7/2009	Kihara	D23/377
D413,378	S	8/1999	Zuege		D598,998	S	8/2009	Flores	
5,951,253	A *	9/1999	Gajewski	F04D 25/088 416/205	D599,900	S	9/2009	Chen	
D414,856	S	10/1999	Zuege		D612,476	S	3/2010	Noble	
D414,857	S	10/1999	Zuege		D614,757	S	4/2010	Noble	
D420,120	S	2/2000	Evans		D619,238	S	7/2010	Hidalgo	
6,019,577	A *	2/2000	Dye	F04D 25/088 362/147	D627,873	S *	11/2010	Pan	D23/411
D421,797	S	3/2000	Collmar		D670,802	S	11/2012	Wang	
6,042,339	A	3/2000	Blateri et al.		D671,203	S	11/2012	Wang	
D422,352	S	4/2000	Gee, II		D675,313	S	1/2013	Lindgren	
D425,610	S	5/2000	Gee, II		D675,720	S	2/2013	Martin Conillas	
D426,630	S	6/2000	Gajewski		D678,997	S	3/2013	Gajewski	
6,120,247	A *	9/2000	Wheeler	F04D 25/088 416/1	D680,210	S	4/2013	Chan	
D445,887	S	7/2001	Campbell		8,430,541	B2	4/2013	Ko	
D451,185	S	11/2001	Kario		D690,409	S	9/2013	Noble et al.	
D453,216	S	1/2002	Gajewski		D692,120	S	10/2013	Noble et al.	
6,354,801	B1 *	3/2002	Gajewski	F04D 25/088 415/121.2	8,602,725	B2	12/2013	Itou et al.	
D456,503	S *	4/2002	Young	D23/413	8,602,733	B2	12/2013	Christofi et al.	
D463,020	S	9/2002	Liu		D707,336	S *	6/2014	Pan	D23/377
D476,408	S	6/2003	Hidalgo		8,749,088	B2 *	6/2014	Zohar	F03D 9/00 290/55
D477,068	S	7/2003	Hsieh		8,770,949	B2	7/2014	Noble	
D478,654	S *	8/2003	Hidalgo	D23/413	D715,418	S	10/2014	Schulzman	
D478,974	S	8/2003	Hidalgo		D715,419	S *	10/2014	Schulzman	D23/377
D478,980	S	8/2003	Hidalgo		D716,436	S	10/2014	Johnson	
D483,474	S	12/2003	Young		D716,438	S *	10/2014	Liu	D23/377
D484,964	S	1/2004	Young		D721,429	S *	1/2015	Busta	D23/377
6,676,375	B2 *	1/2004	Steeves		D721,430	S *	1/2015	Schulzman	D23/377
			LeBlanc	F21V 33/0096 362/406	D721,800	S *	1/2015	Busta	D23/413
D490,510	S	5/2004	Cohen		8,937,799	B2 *	1/2015	Tanaka	F01D 5/14 361/225
6,884,034	B1 *	4/2005	Parker	F04D 25/088 416/1	D726,298	S *	4/2015	Busta	D23/411
D510,763	S	10/2005	Da Costa		9,004,863	B2	4/2015	Gajewski	
D511,207	S	11/2005	Young		D732,657	S *	6/2015	Peterson	D23/413
					9,079,115	B2 *	7/2015	Huang	A63H 27/02
					D741,468	S *	10/2015	Ertze	D23/377
					D741,469	S	10/2015	Pan	
					D741,988	S	10/2015	Pan	
					D742,500	S *	11/2015	Pan	D23/413
					D745,448	S *	12/2015	Hawkins	D12/214
					D745,956	S	12/2015	Ertze	
					D747,452	S *	1/2016	Gajewski	D23/377
					D750,211	S *	2/2016	Arai et al.	D23/379
					D750,213	S *	2/2016	Schulzman	D23/385
					D750,214	S *	2/2016	Busta	D23/385
					D750,219	S *	2/2016	Gajewski	D23/411
					D751,026	S *	3/2016	Tao	D12/345
					9,284,962	B2 *	3/2016	Long	B64C 11/00
					9,285,111	B2 *	3/2016	Todd, Jr.	F21V 33/0096

(56)

References Cited

U.S. PATENT DOCUMENTS

2003/0235503 A1* 12/2003 Tang F04D 25/088
416/241 R
2004/0151588 A1* 8/2004 Liang F04D 29/36
416/142
2005/0147494 A1* 7/2005 Hoshino F04D 29/388
416/62
2006/0255226 A1* 11/2006 Frampton F04D 25/088
248/343
2008/0138204 A1* 6/2008 Cartwright F04D 25/088
416/204 R
2009/0122572 A1* 5/2009 Page F04D 25/088
362/555
2009/0220347 A1* 9/2009 Ball B64C 11/26
416/229 R
2010/0040494 A1* 2/2010 Yamamoto F04D 29/059
417/423.7
2010/0098545 A1* 4/2010 Liu F03D 3/062
416/204 R
2011/0165002 A1* 7/2011 Noble F04D 25/088
417/423.7
2011/0274561 A1* 11/2011 Kobayashi F04D 27/004
417/14
2012/0014796 A1* 1/2012 Cartwright F04D 25/088
416/142
2012/0099997 A1* 4/2012 Song F03D 3/064
416/210 R
2013/0045103 A1* 2/2013 Iwamoto F04D 25/088
416/170 R
2013/0189109 A1 7/2013 Noble
2013/0251522 A1* 9/2013 Oleson F01D 25/28
415/213.1
2013/0272879 A1* 10/2013 Chen F04D 29/002
416/5
2013/0280077 A1* 10/2013 Iwamoto F04D 25/088
416/204 R
2013/0302169 A1* 11/2013 Hennes F03B 13/264
416/170 R
2013/0336797 A1* 12/2013 Wang F04D 29/329
416/214 R
2014/0119924 A1* 5/2014 Hiner F04D 17/161
416/198 R
2014/0119925 A1 5/2014 Wang
2015/0004022 A1* 1/2015 Noble F04D 25/088
417/410.1
2015/0086375 A1* 3/2015 Kuramochi F04D 29/34
416/220 R
2015/0198175 A1* 7/2015 Lin F04D 29/34
416/212 R
2015/0198180 A1* 7/2015 Gajewski F04D 25/088
416/247 R
2015/0204346 A1* 7/2015 Gajewski F04D 25/088
416/5
2015/0377241 A1* 12/2015 Hoemann F04D 19/002
417/423.7
2016/0018119 A1 1/2016 Desmet et al.

FOREIGN PATENT DOCUMENTS

AU 344439 S 9/2012
AU 344441 S 9/2012
AU 344442 S 9/2012
AU 344440 S 11/2012
BR MU8701580-3 U2 7/2009
CN 3035947 10/1995
CN 3052179 12/1996
CN 3326631 10/2003
CN 3342283 12/2003
CN 3373899 6/2004
CN 3379773 7/2004
CN 3464463 7/2005
CN 3608404 2/2007
CN 3613716 2/2007
CN 3643915 5/2007
CN 3657836 6/2007
CN 3669173 7/2007

CN 300719583 12/2007
CN 300776509 5/2008
CN 300831125 9/2008
CN 300831150 9/2008
CN 300943819 6/2009
CN 300952851 7/2009
CN 300966332 7/2009
CN 300980833 8/2009
CN 301099596 12/2009
CN 301118857 1/2010
CN 301118858 1/2010
CN 301118904 1/2010
CN 301149979 3/2010
CN 301167853 3/2010
CN 301167858 3/2010
CN 301202407 5/2010
CN 301220317 5/2010
CN 301220319 5/2010
CN 201546988 U 8/2010
CN 301321389 8/2010
CN 101876318 A 11/2010
CN 301386354 11/2010
CN 301403834 12/2010
CN 301515901 4/2011
CN 301524021 4/2011
CN 301582345 6/2011
CN 301687620 9/2011
CN 202056077 U 11/2011
CN 301735230 11/2011
CN 301735236 11/2011
CN 301735240 11/2011
CN 202132274 U 2/2012
CN 202165288 U 3/2012
CN 202560594 U 11/2012
CN 203189290 U 9/2013
CN 104033399 A 9/2014
CN 104100544 A 10/2014
CN 204003607 U 12/2014
CN 303071225 S 1/2015
CN 303120447 S 3/2015
CN 303340545 S 8/2015
CN 105221451 A 1/2016
CN 204961350 U 1/2016
CN 303566447 S 1/2016
CN 303218947 S 5/2016
DE 202005019872 U 7/2006
EM 000766829-0012 9/2007
EM 000766829-0015 9/2007
EM 000766829-0020 9/2007
EM 000766829-0027 9/2007
EM 000766829-0038 9/2007
EM 002095711-0004 3/2012
EM 002095711-0003 12/2012
EM 002095711-0005 12/2012
EM 002095711-0006 12/2012
EM 001356059-0001 1/2013
GB 2050058 7/1996
GB 3005085 7/2002
JP D1194006 1/2004
JP D1270347 5/2006
JP D1284753 10/2006
JP 2007247573 A 9/2007
JP 2012026380 A 2/2012
SG 193219 A1 9/2013
TW 203457 S1 4/1993
TW 204891 S1 4/1993
TW 241026 S1 2/1995
TW 352920 S1 2/1999
TW 467555 S1 12/2001
WO 2011138626 11/2011
WO 2015142871 A1 9/2015

OTHER PUBLICATIONS

Big Ass Fans Haiku Ceiling Fan with SenseME—from CNET, image post date Jun. 4, 2014, site visited Apr. 16, 2016, (online), <<http://www.cnet.com/products/big-ass-fans-haiku-ceiling-fan-with-senseme/>>.*

(56)

References Cited

OTHER PUBLICATIONS

Haiku 5 Foot Ceiling Fan—from YouTube, image post date Jul. 16, 2013, site visited Apr. 16, 2016, (online), <https://www.youtube.com/watch?v=OAWveTjw_S4>.*

Haiku L Series Fan: 52", Black, Universal Mount: Black https://www.haikuhome.com/haiku-l-series-fan-52-black-universal-mount-black?utm_source=google&utm_medium=shop&utm_campaign=GGL-SHOP-L52-BL&rt=rf Printed Mar. 8, 2016.

Montecarlo Minimalist Ceiling Fan Model 3MNLR56BSD <http://www.hansenwholesale.com/ceilingfans/montecarlo/model.asp?ProdNo=MC-3MNLR56BSD> Printed Mar. 8, 2016.

This New Ceiling Fan Design Solves A Problem That All Ceiling Fans Have Had Since 1882 <http://www.businessinsider.com/haiku-smart-ceiling-fan-2014-6> Printed Mar. 8, 2016.

Back to Post:Ceiling Fans Application to the Living Room ceiling fans no lights <http://dreccera.info/ceiling-fans-application-to-the-living-room.html/ceiling-fans-no-lights> Printed Mar. 8, 2016.

52" Casa Delta-Wing™ Bronze Outdoor Ceiling Fan 52" Casa DeltaWing Bronze Outdoor Ceiling Fan #4F570 | LampsPlus.com http://www.lampsplus.com/products/52-inch-casa-delta-wing-bronze-outdoor-ceiling-fan_4f570.html Printed Mar. 8, 2016.

Spitfire 60" Ceiling Fan Sleek and elegant cooling <http://www.myfan.com.au/ceiling-fans/spitfire/> Printed Mar. 8, 2016.

Craftmade SON52CH, Sonnet Chrome 60 <http://www.delmarfans.com/craftmade-ceiling-fans/sonnet/son52ch/> Printed Mar. 8, 2016.

Three Blade Washed timber ceiling fan <http://www.houzz.com/photos/22163832/Three-Blade-Washed-timber-ceiling-fan-contemporary-ceiling-fans-other-metro> Printed Mar. 8, 2016.

Aeratron AE3 43-Inch Triple Blade Ceiling Fan—Matte White http://store.dwell.com/aeratronae343triplebladeceilingfan.html?gclid=CP6V2PCvsssCFZI9gQodUoAEgA&a__92=1932 Printed Mar. 8, 2016.

Westinghouse 7869100 46" White 3-Blade Reversible Ceiling Fan with Light <http://www.walmart.com/ip/27021874?wmlspartner=wlp&selectedSellerId=0&>

adid=2222222227018433423&w10=&w11=g&w12=c&w13=52406259431&w14=&w15=pla&w16=83970368351&veh=sem.

Monte Carlo 3MO52WHO-L Mach One 52-Inch 3- Blade Ceiling Fan with Remote and Light Kit, White Finish <http://www.amazon.com/Monte-Carlo-3MO52WHO-L-52-Inch-3-Blade/dp/B0038KY442> Printed Mar. 8, 2016.

Decoration, Simple Brown Ceiling Fan With Light Design With Triple Blade And White Lamp <http://lighthom.xyz/add-to-the-look-of-a-room-with-fancy-ceiling-fan-ideas/simple-brown-ceiling-fan-with-light-design-with-triple-blade-and-white-lamp/> Printed Mar. 8, 2016.

The Flow Modern Ceiling Fan Flow 3Blade Modern Ceiling Fan | Barn Light Electric <http://www.barnlightelectric.com/barn-ceiling-fans/modern-ceiling-fans/the-flow-modern-ceiling-fan.html> Printed Mar. 8, 2016.

Techno 132 cm ceiling fan with three blades and LED light kit <http://www.westinghouselighting.eu/ceiling-fans/modern/techno-132-cm-ceiling-fan-with-three-blades-and-led-light-kit-7827040.aspx> Printed Mar. 8, 2016.

Del Mar Fans & Lighting Ceiling Fan Rating System Ceiling Fan Ratings | Who Makes the Best Ceiling Fans <http://www.delmarfans.com/educate/ceiling-fan-rating-guide/> Aug. 1, 2013 Printed Mar. 8, 2016.

Letter dated Feb. 22, 2016 Response from Barnes & Thornburg LLP (Dwight D. Lueck) to King & Schickli, PLLC (Andrew D. Dorisio) Re: TropoAir Vogue 60" DC Ceiling Fan.

3-blade versus 4-blade or 5-blade ceiling fan efficiency <http://g2art.com/> 5 Pages.

Westinghouse Lighting Industrial 56Inch Indoor Ceiling Fan Industrial 56-Inch Three-Blade Indoor Ceiling Fan Brushed Nickel with Brushed Nickel Steel Blades <https://web.archive.org/web/20110706214449/http://www.westinghouselighting.com/ceilingfans/56inchceilingfan/>.

Photographs of Deka SV3 Fan—available for sale approximately Jun. 25, 2014.

* cited by examiner

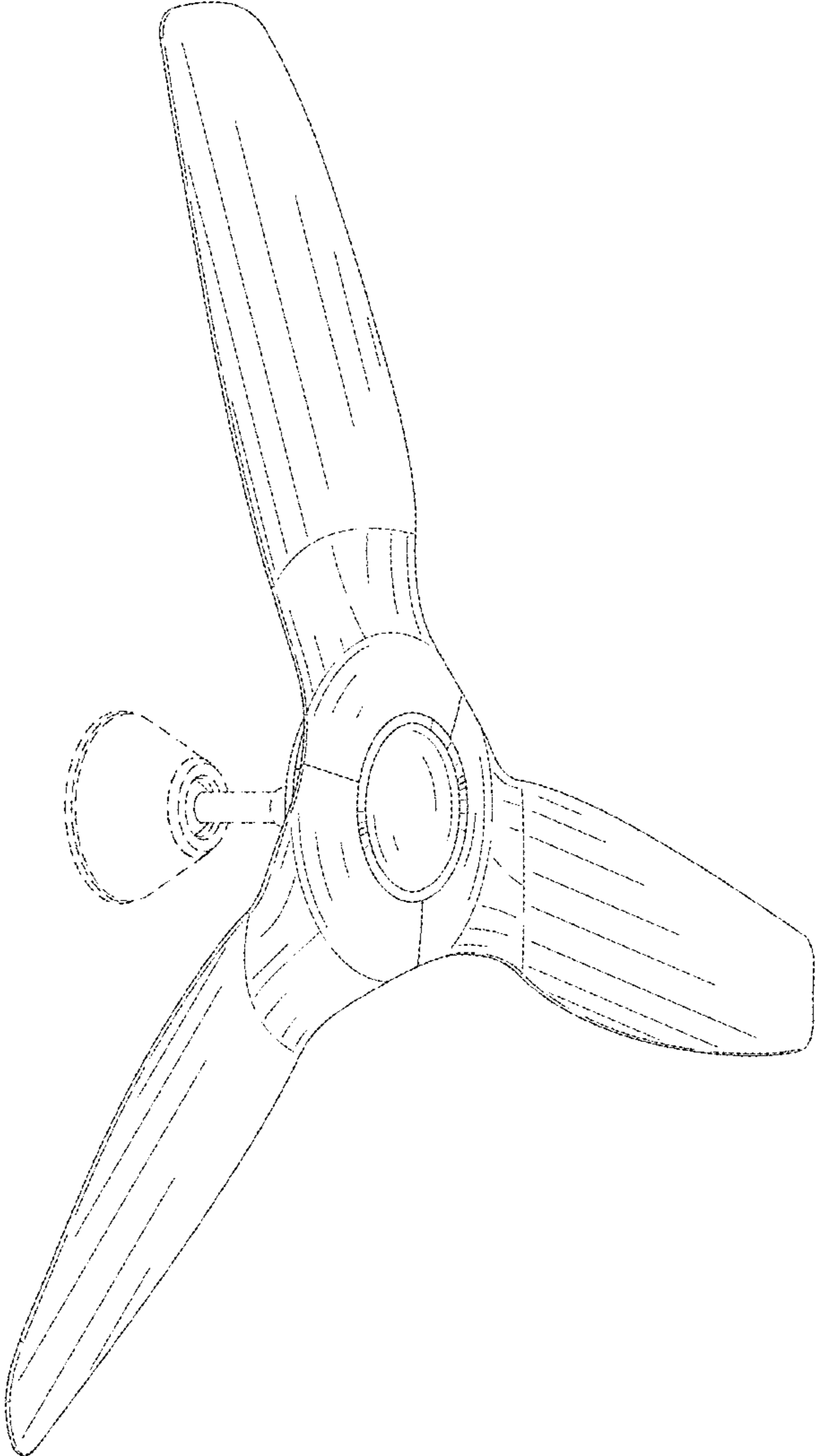


FIG. 1

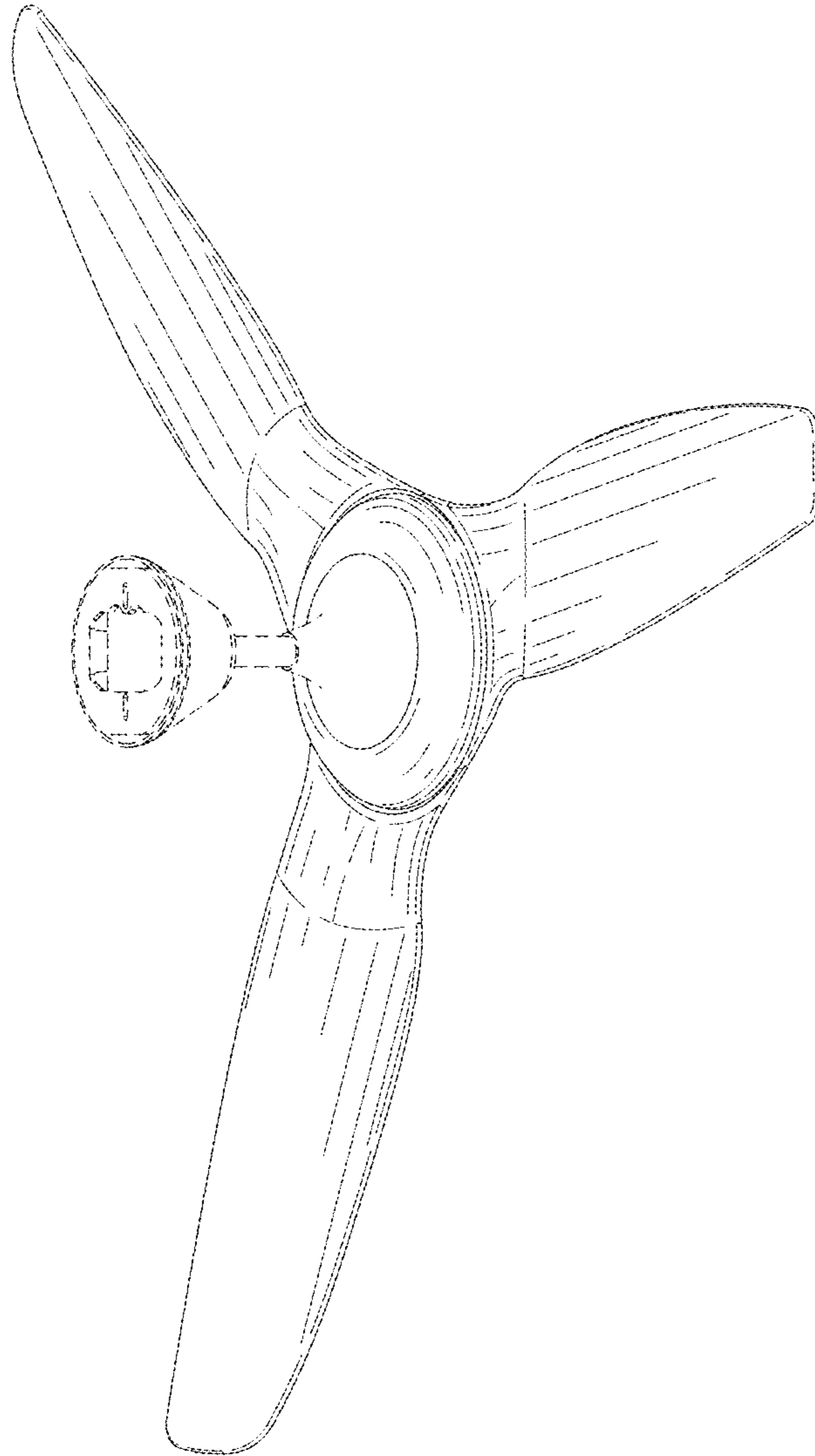


FIG. 2

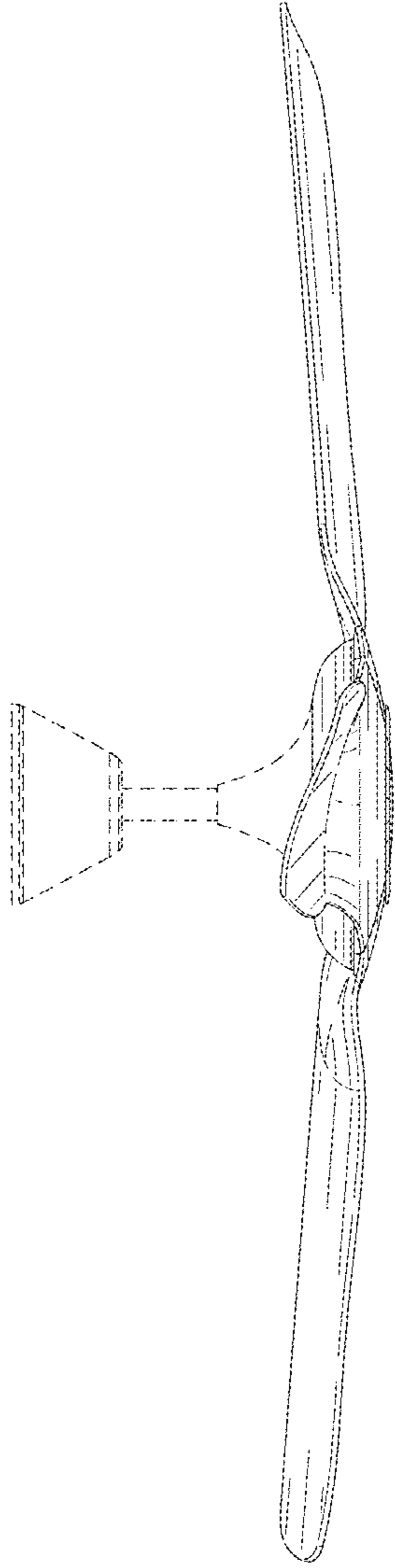


FIG. 3

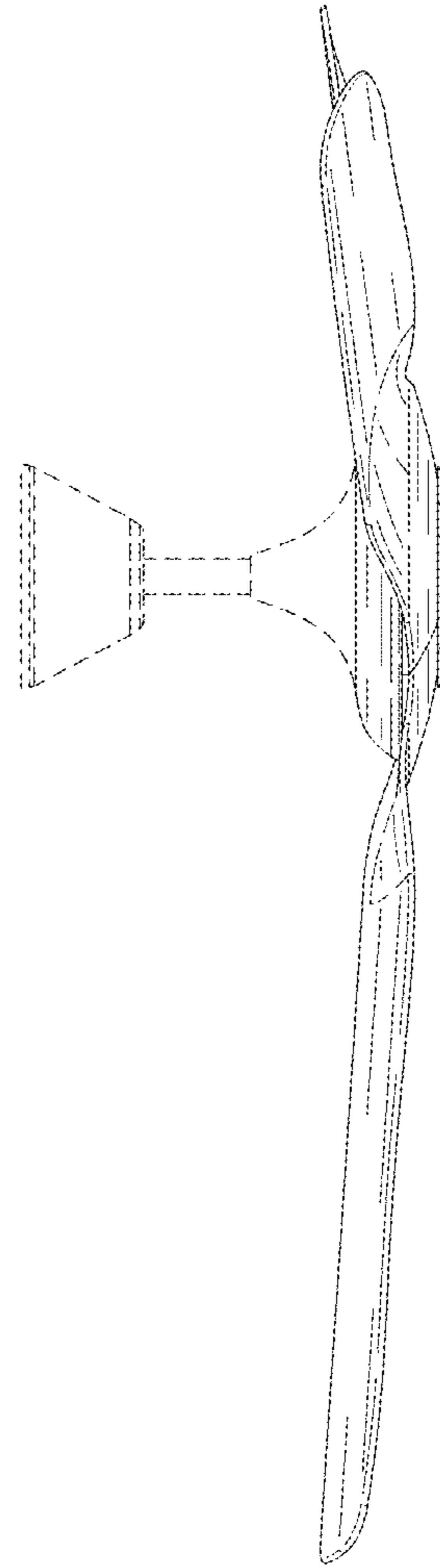


FIG. 4

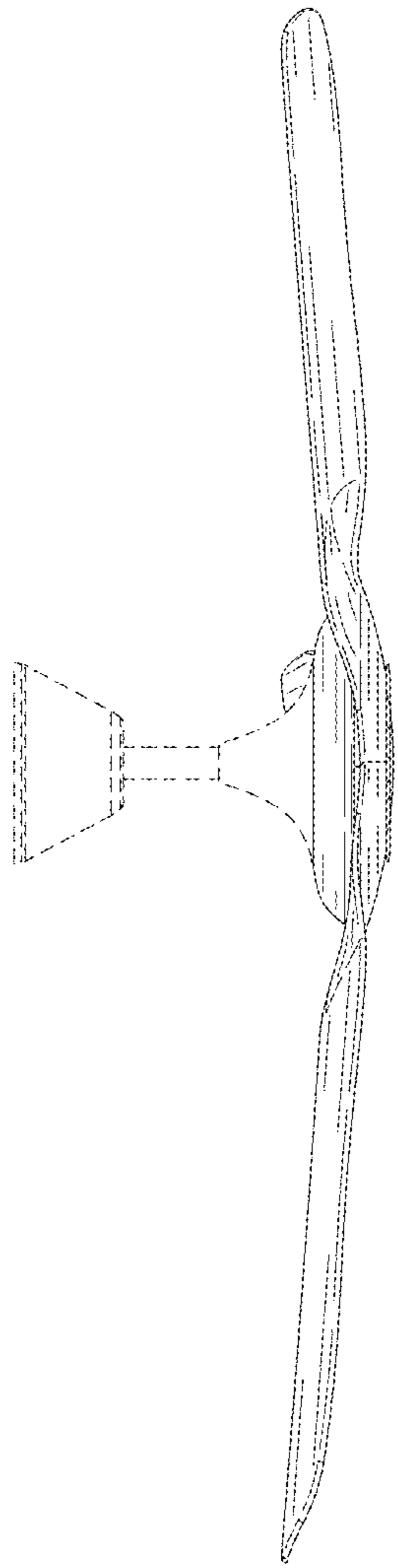


FIG. 5

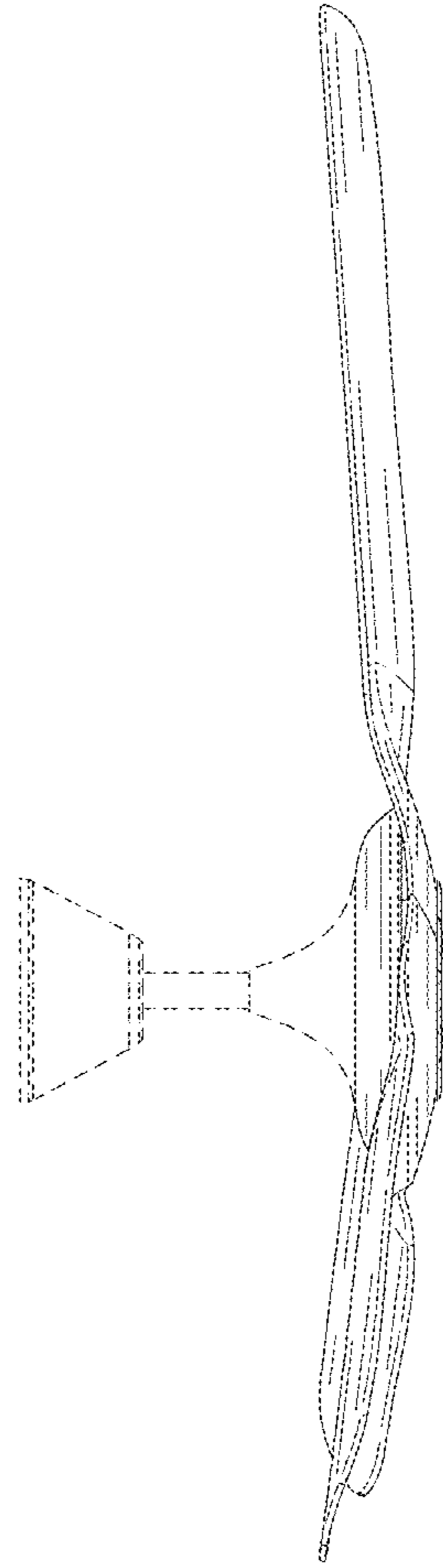


FIG. 6

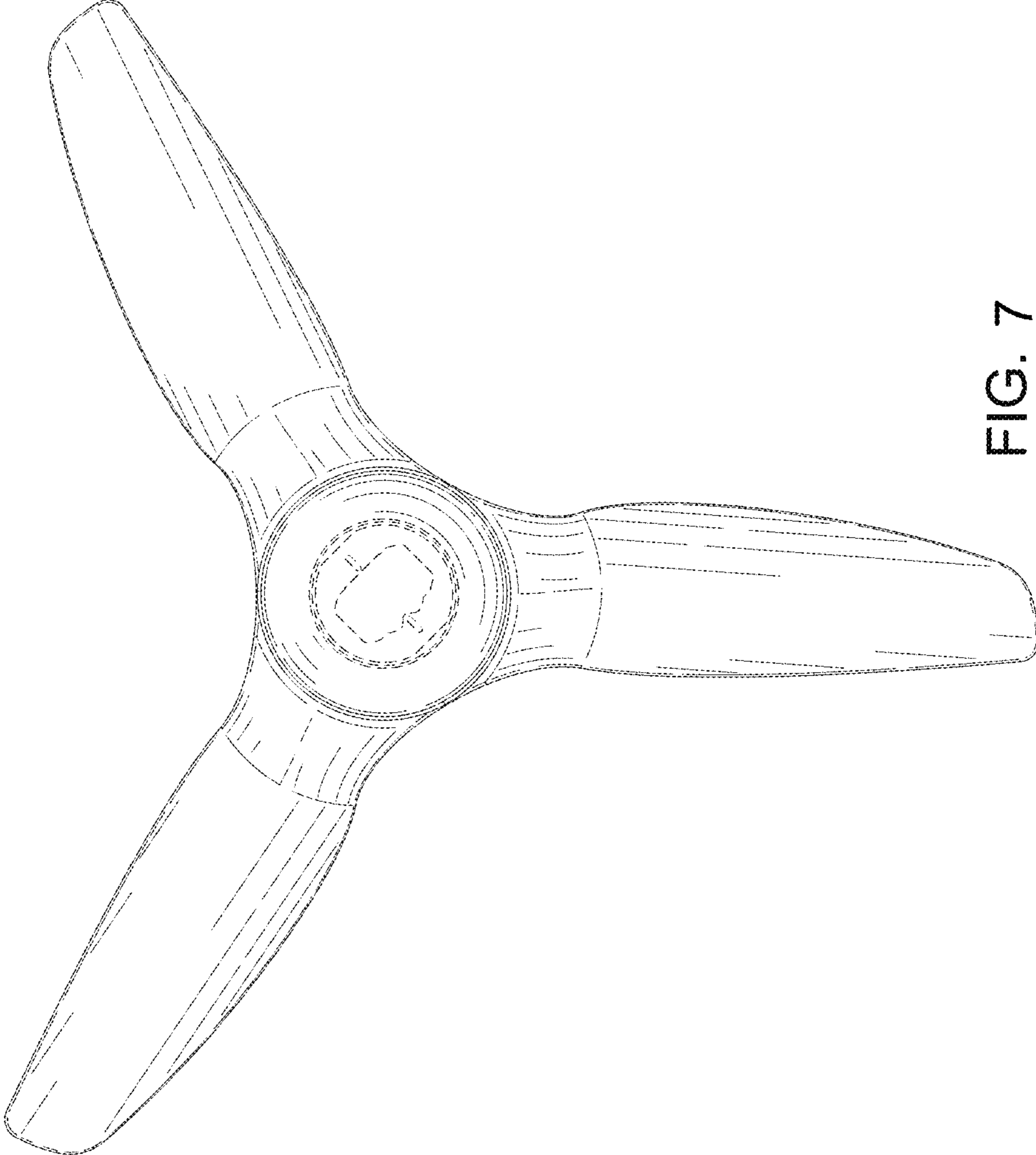


FIG. 7

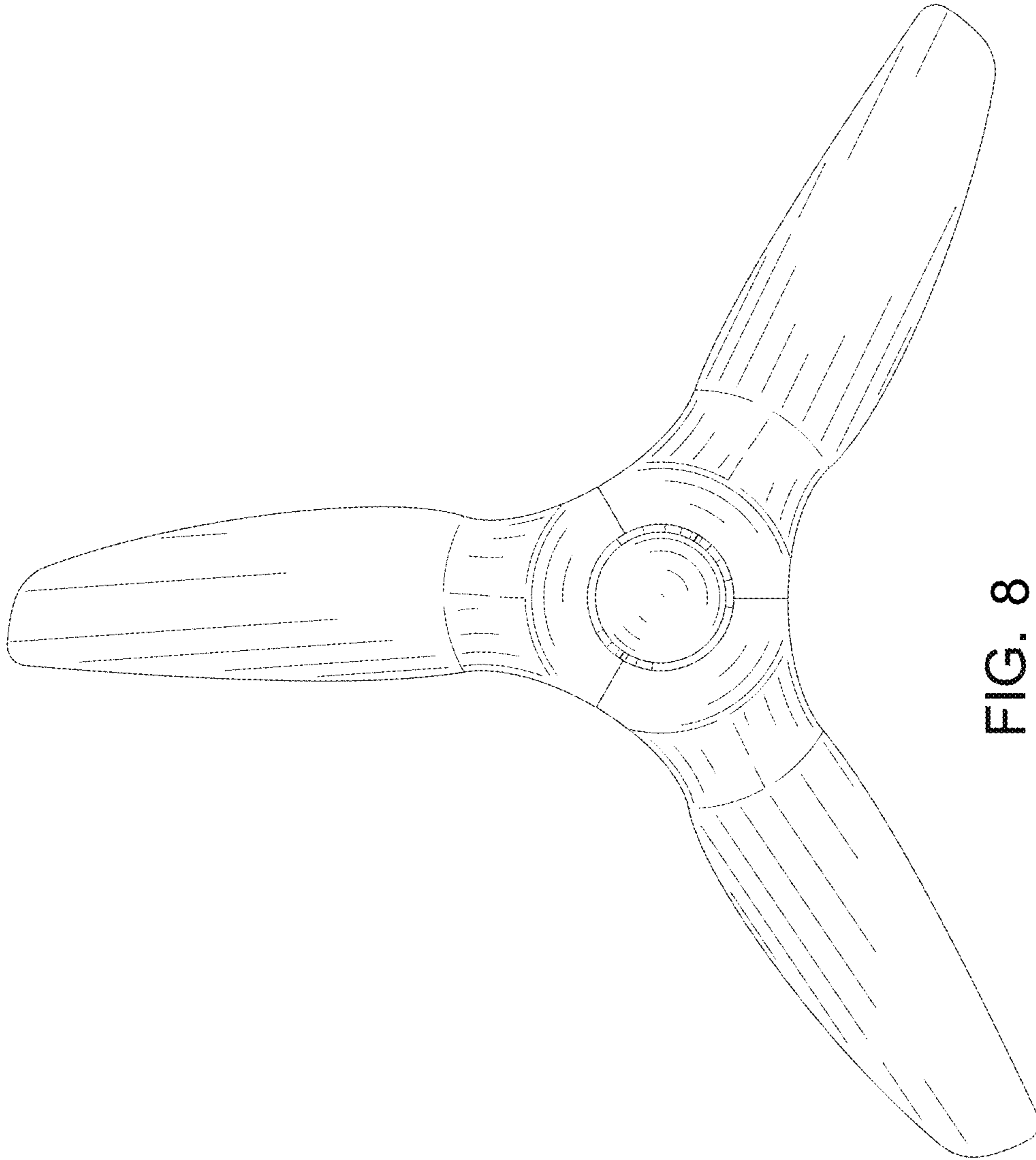


FIG. 8