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(12) **United States Design Patent** (10) **Patent No.:** **US D918,279 S**  
**Schollmayer et al.** (45) **Date of Patent:** **\*\* May 4, 2021**

(54) **STIRRER** D229,848 S \* 1/1974 Mittelstadt ..... D15/12  
4,054,272 A 10/1977 Cooke  
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Hanau-Wolfgang (DE) (Continued)

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Hanau-Wolfgang (DE) DE 2 220 213 A1 11/1973  
(Continued)

(\*\*) Term: **15 Years** OTHER PUBLICATIONS  
(21) Appl. No.: **29/638,084** New Stirrer Technology for Glass Industry, posted on technology.  
matthey.com, published 2005, [online], [site visited Dec. 27, 2017],  
(22) Filed: **Feb. 23, 2018** Available from internet, URL: [http://www.technology.matthey.com/](http://www.technology.matthey.com/article/49/2/62-69/)  
article/49/2/62-69/ (Year: 2005).  
(Continued)

**Related U.S. Application Data**

(60) Division of application No. 29/572,350, filed on Jul. 27, 2016, now Pat. No. Des. 849,070, which is a continuation-in-part of application No. PCT/EP2016/053642, filed on Feb. 22, 2016.

(51) **LOC (13) Cl.** ..... **15-09**  
(52) **U.S. Cl.**  
USPC ..... **D15/130; D15/122**

(58) **Field of Classification Search**  
USPC ..... D8/8, 14, 59, 499; D13/115; D15/130,  
D15/139, 199, 122  
CPC .. C03B 5/03; C03B 5/04; C03B 5/182; C03B  
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See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,570,079 A 10/1951 Spremulli  
3,316,983 A 5/1967 Goodman  
D208,725 S \* 9/1967 Danuser ..... D15/21  
3,419,373 A 12/1968 Gould et al.

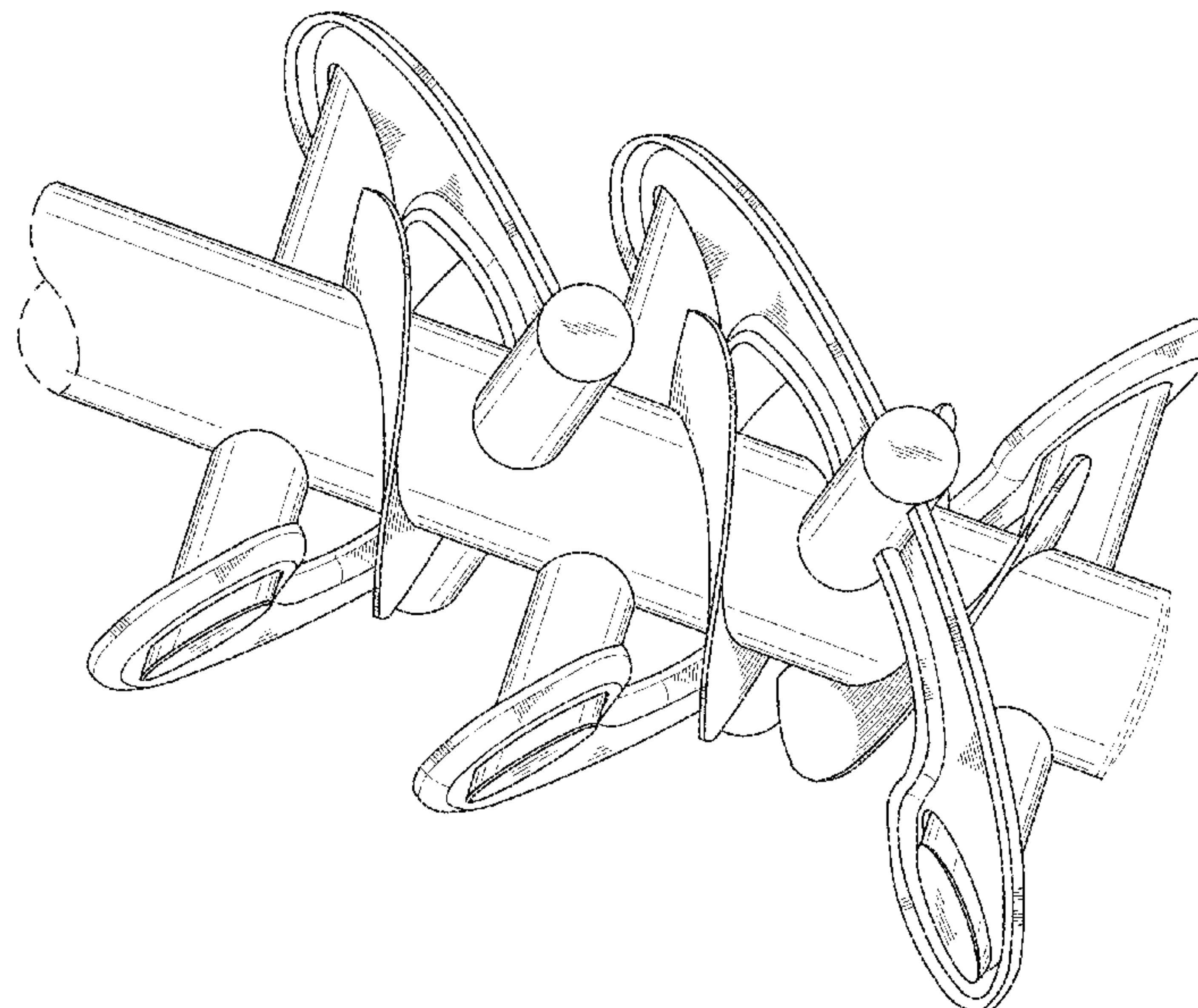
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(57) **CLAIM**  
The ornamental design for a stirrer, as shown and described.

**DESCRIPTION**

FIG. 1 shows a perspective view of the stirrer;  
FIG. 2 shows a top plan view of the stirrer, with the bottom plan view being the same;  
FIG. 3 shows a front elevation view of the stirrer, with the rear elevation view being the same;  
FIG. 4 shows a right side end view of the stirrer; and,  
FIG. 5 shows a left side end view of the stirrer.  
The broken lines seen in FIGS. 1-4 show portions of a stirrer that form no part of the claimed design.  
The broken line with varying lengths seen in FIGS. 1, 2, 3, and 5 show the bounds of the claimed design, and form no part thereof.

**1 Claim, 5 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D314,263 S 1/1991 Mueller  
 D316,100 S 4/1991 Kief  
 5,611,221 A 3/1997 Tremel  
 D399,091 S 10/1998 Rubin  
 D421,030 S 2/2000 Pannaccione et al.  
 6,296,068 B1 10/2001 Frederick  
 6,352,122 B1 3/2002 Love  
 D474,567 S 5/2003 Clark et al.  
 D474,568 S 5/2003 Clark et al.  
 D475,372 S 6/2003 Dulkoski  
 D485,654 S 1/2004 Clark et al.  
 D518,286 S 4/2006 Santos  
 D524,329 S 7/2006 Sheperd  
 D557,290 S 12/2007 Melegari  
 D557,984 S 12/2007 Kozlowski et al.  
 7,628,232 B2 12/2009 Koch et al.  
 D618,056 S 6/2010 Sly  
 7,740,401 B2 6/2010 Kozlowski et al.  
 D648,193 S 11/2011 Wheat  
 D682,640 S 5/2013 Motosko  
 8,434,329 B2 5/2013 Singer  
 D708,136 S 7/2014 Eguizabal Garcia  
 D722,965 S 2/2015 Perless et al.  
 D723,076 S 2/2015 Lampe et al.  
 D735,468 S 8/2015 Goldszer  
 D735,896 S 8/2015 Reusing et al.  
 9,103,321 B1 8/2015 Bardia  
 D747,143 S 1/2016 Schomacher et al.  
 D761,056 S 7/2016 Kemker  
 D788,197 S 5/2017 Ford  
 D798,923 S 10/2017 Homola  
 D800,807 S 10/2017 Schollmayer et al.  
 D800,808 S 10/2017 Schollmayer et al.  
 D801,927 S 11/2017 Cooper, II  
 2005/0083782 A1 4/2005 Gronau et al.  
 2007/0003654 A1 1/2007 Morimoto

2008/0282738 A1 11/2008 Yoshida  
 2009/0025428 A1 1/2009 Naumann et al.  
 2013/0051173 A1 2/2013 Bräker et al.

FOREIGN PATENT DOCUMENTS

DE 198 09 878 A1 9/1999  
 DE 10 2008 017 045 A1 10/2009  
 DE 202016100936 U1 \* 4/2016 ..... B01F 7/00133  
 DE 202016100936 U1 4/2016  
 EP 0 160 830 A 11/1985  
 EP 1 524 027 A2 4/2005  
 EP 2 353 707 A1 8/2011  
 EP 2 505 562 A1 10/2012  
 EP 2 955 162 A1 12/2015  
 EP 2955162 A1 \* 12/2015 ..... B01F 7/00908  
 JP S54-118454 U 8/1979  
 JP 61021922 A \* 1/1986 ..... C03B 5/187  
 JP S61-021922 A 1/1986  
 JP S63-134040 A 6/1988  
 JP H01-129231 U 9/1989  
 JP H04-160018 A 6/1992  
 JP H10-265226 A 10/1998  
 JP 2004-307302 11/2004  
 WO 03/078337 A1 9/2003  
 WO 2005/007778 A1 1/2006  
 WO 2010/098328 A1 9/2010  
 WO 2011/020625 A1 2/2011

OTHER PUBLICATIONS

Apps in the Glass Industry, posted on chemgapedia.de, no posted date given, [online], [site visited Dec. 27, 2017], Available from Internet URL: [http://www.chemgapedia.de/vsengine/tra/vsc/en/ch/25/heraeus/pt.tra/Vlu/vsc/en/ch/25/heraeus/pt\\_als\\_werkstoff/platin.vlu/Page/vsc/en/ch/25/heraeus/pt\\_als](http://www.chemgapedia.de/vsengine/tra/vsc/en/ch/25/heraeus/pt.tra/Vlu/vsc/en/ch/25/heraeus/pt_als_werkstoff/platin.vlu/Page/vsc/en/ch/25/heraeus/pt_als) (Year: 2017).

\* cited by examiner



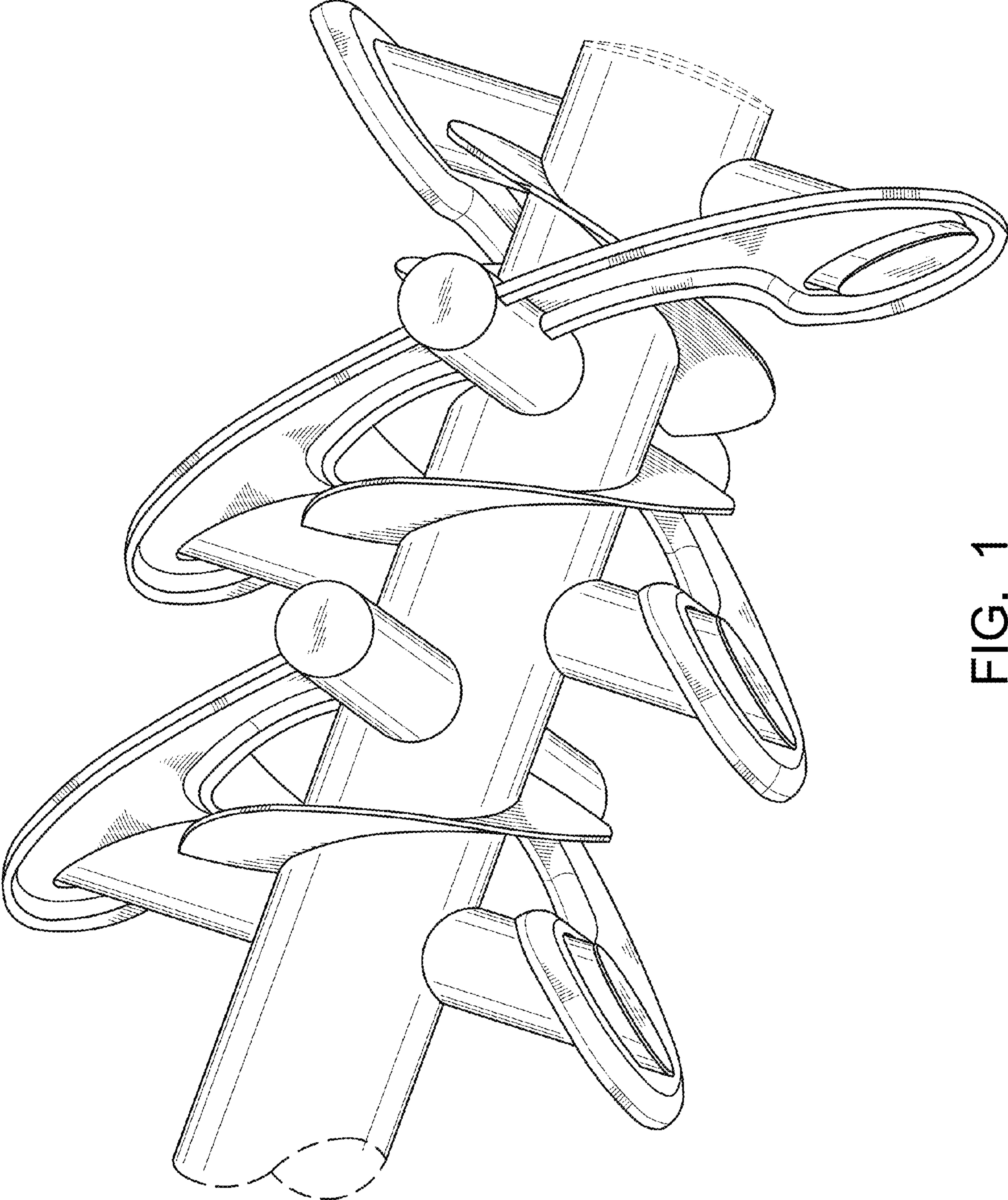


FIG. 1

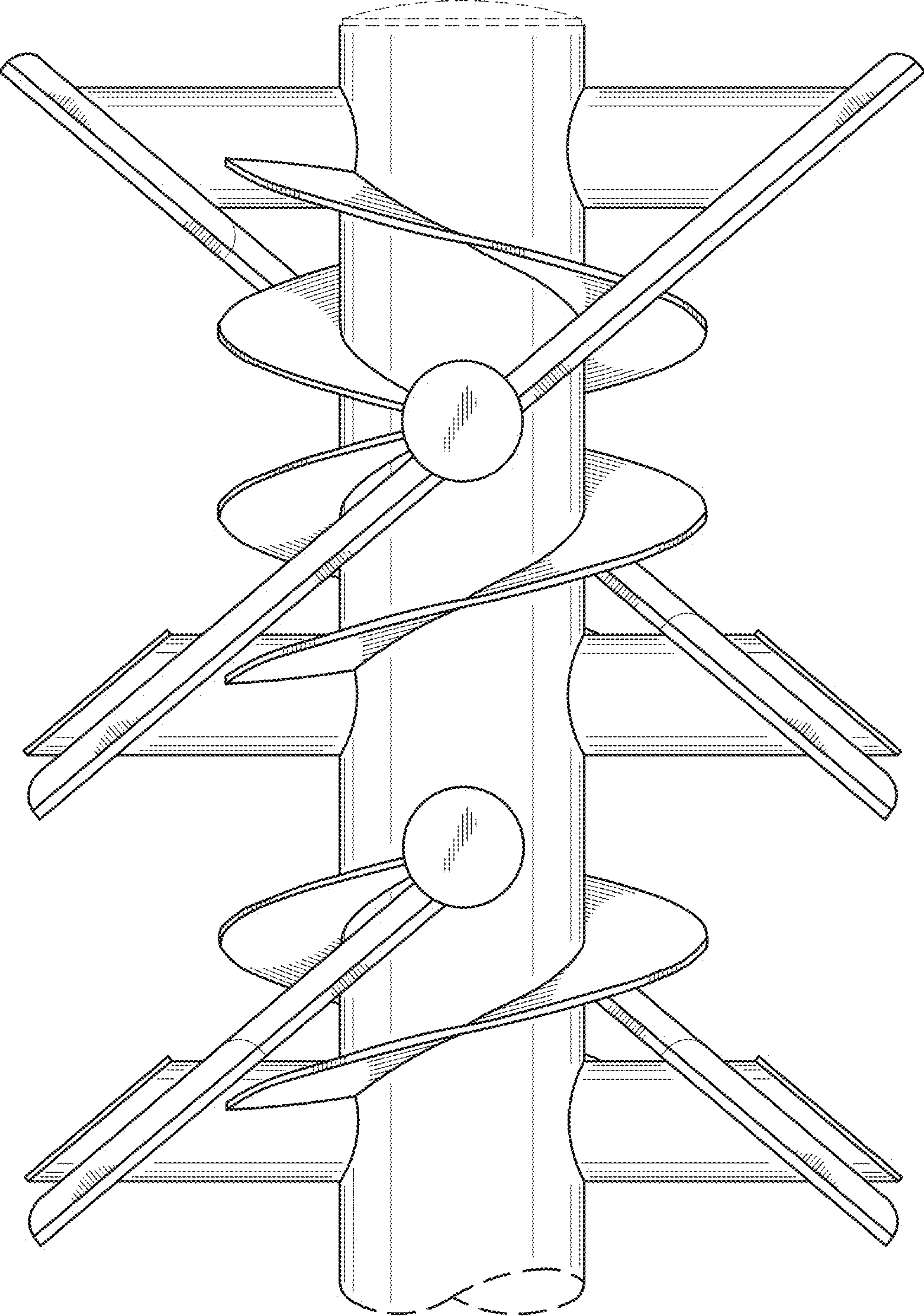


FIG. 2



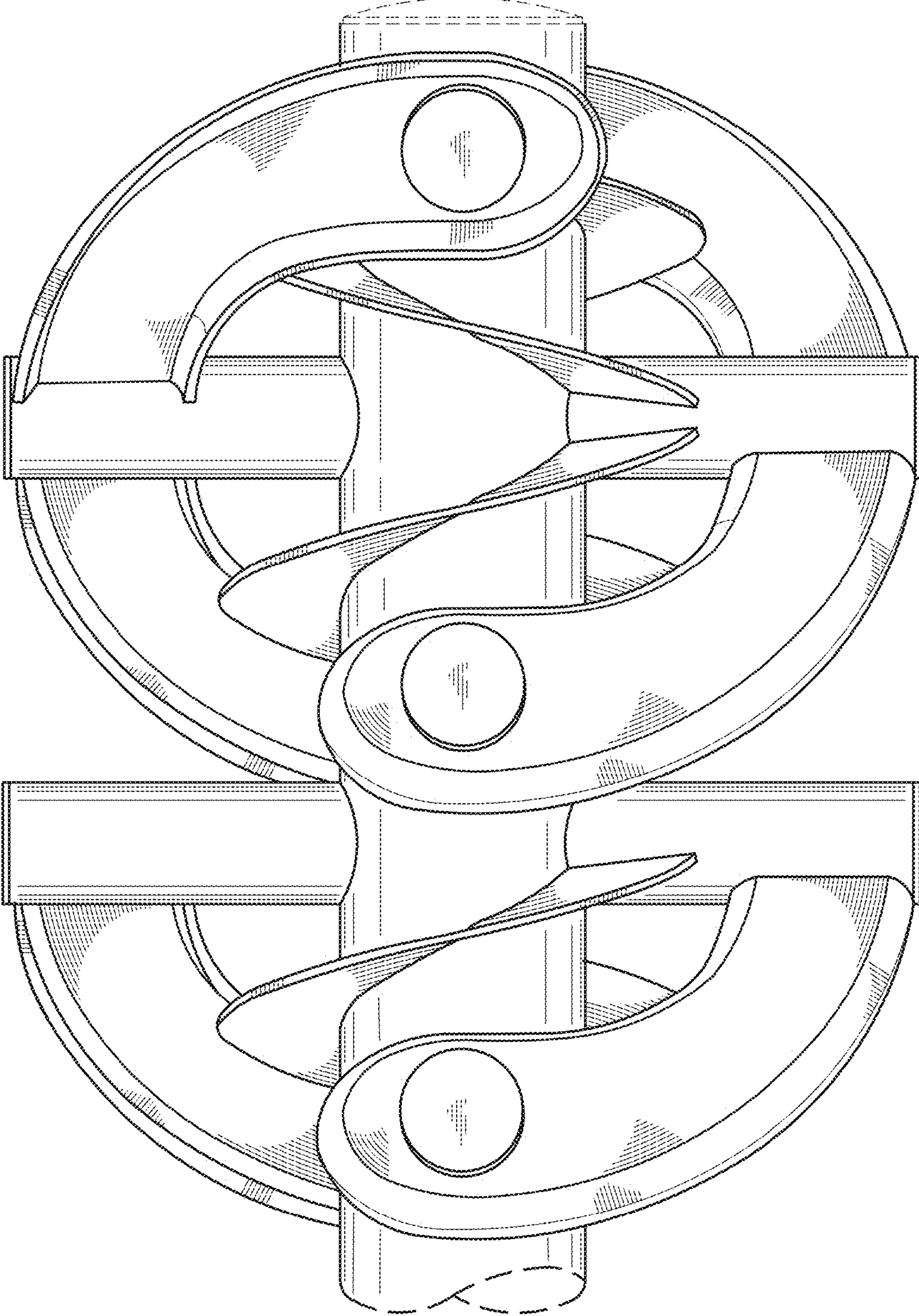


FIG. 3

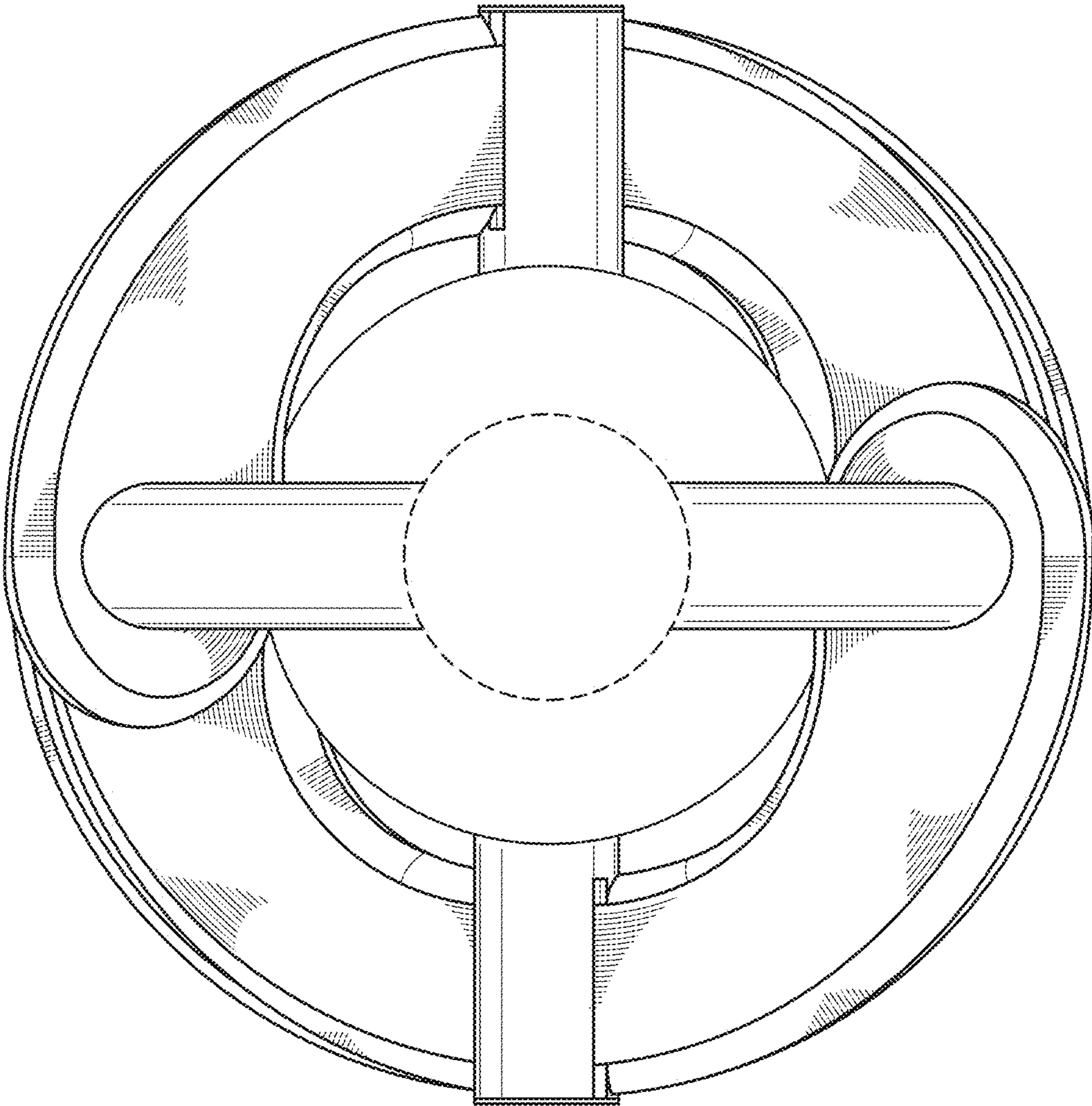


FIG. 4

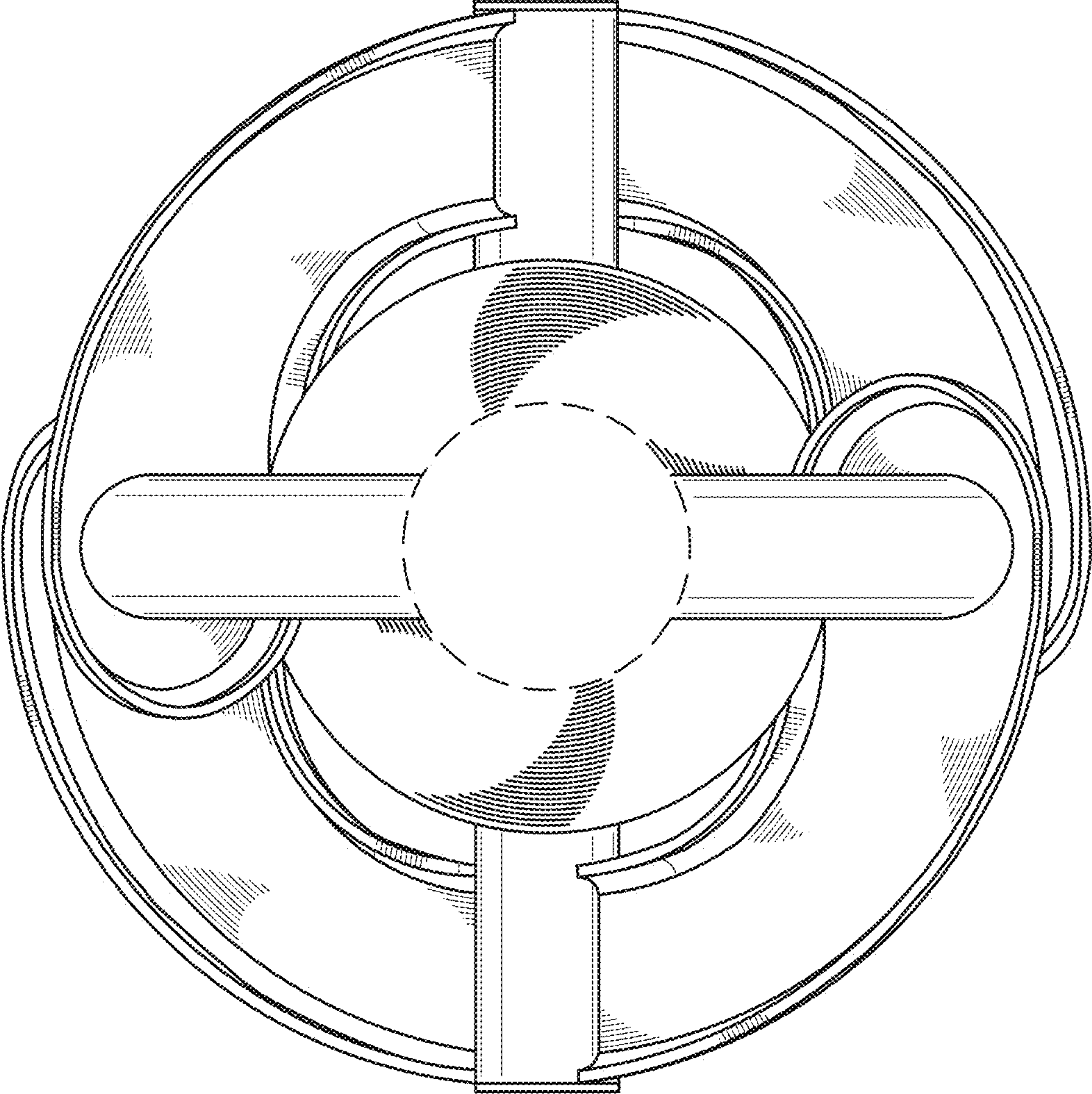


FIG. 5