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(12) **United States Design Patent** (10) **Patent No.:** **US D894,357 S**
Roady (45) **Date of Patent:** **** Aug. 25, 2020**

- (54) **REFRIGERANT COIL SEGMENT**
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- (**) Term: **15 Years**
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- (51) **LOC (12) Cl.** **23-04**
- (52) **U.S. Cl.**
USPC **D23/354**
- (58) **Field of Classification Search**
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CPC .. F25B 49/02; F25B 5/02; F25B 13/00; F25B 47/003; F25B 39/00; F25B 39/02; F25B 39/022; F25B 39/024; F25B 39/028; F24F 1/0007; F24F 1/06; F24F 1/0059; F24F 1/0067
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D60,176 S *	1/1922	Schumacher	.....	D23/323
D95,533 S *	5/1935	Moray	.....	D23/323
D139,313 S *	10/1944	Landerman	.....	D23/323
3,242,984 A *	3/1966	Pelce	.....	F28F 1/16 165/185
D239,118 S *	3/1976	Branson	.....	D13/179
D415,264 S *	10/1999	Thweatt, Jr.	.....	D23/323
6,435,269 B1 *	8/2002	Hancock	.....	F24F 1/14 165/144
7,121,328 B1 *	10/2006	McDonald	.....	F25B 39/04 165/125
D532,499 S *	11/2006	Nakagawa	.....	D23/323
D608,876 S *	1/2010	Huang	.....	D13/179
D619,548 S *	7/2010	Liu	.....	D13/179
D622,675 S *	8/2010	Liu	.....	D13/179

D767,107 S *	9/2016	Stephens	.....	D23/323
D857,183 S *	8/2019	Sakae	.....	D23/323
2005/0269069 A1 *	12/2005	Hancock	.....	F28F 1/40 165/179
2012/0060534 A1 *	3/2012	Zhang	.....	F24H 4/04 62/238.7
2018/0195807 A1 *	7/2018	Wickham	.....	B21D 53/027

(Continued)

OTHER PUBLICATIONS

HZSS, High Performance Turbular Heat Exchanger for Refrigeration Heat Pump System, (site visited Jun. 15, 2020), Coaxial-Coils.com, URL:<<https://www.coaxial-coils.com/pid18212320/High-performance-turbular-heat-exchanger-for-refrigeration-heat-pump-system.htm>> (Year: 2020).*

(Continued)

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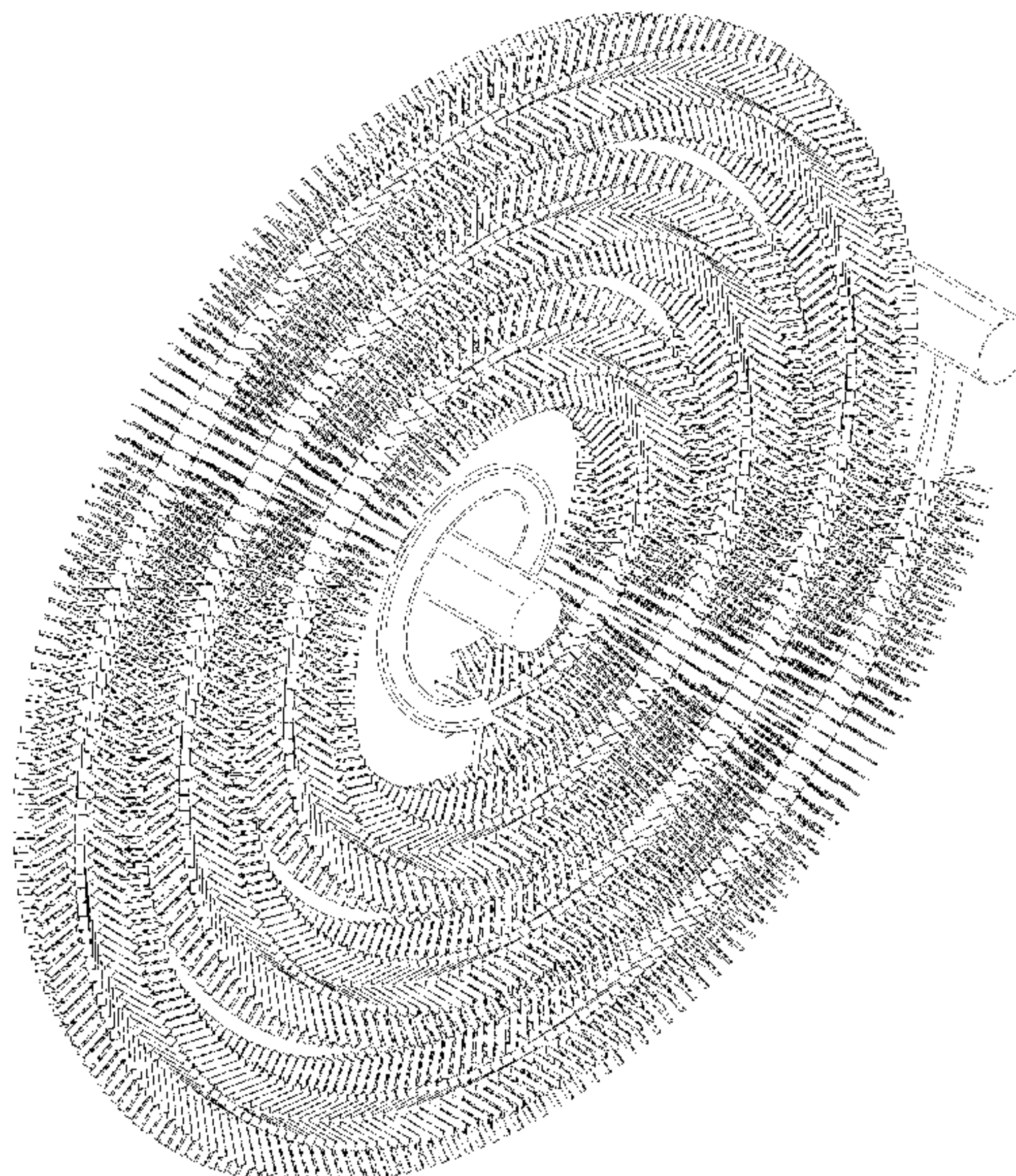
(57) **CLAIM**

I claim the ornamental design for a refrigerant coil segment, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a refrigerant coil segment, showing the new design.
FIG. 2 is a rear view thereof.
FIG. 3 is a front view thereof.
FIG. 4 is a right side view thereof.
FIG. 5 is a left side view thereof.
FIG. 6 is a top view thereof; and,
FIG. 7 is a bottom view thereof.
In the drawings, the broken lines shown in the figures depict unclaimed subject matter and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2019/0107336 A1* 4/2019 Deivasigamani F28F 1/10
2019/0226718 A1* 7/2019 Clark F24H 9/0047

OTHER PUBLICATIONS

Ningbo Winroad Refrigeration Equipment Co., Ltd. , monometal fin tube heat exchanger, (site visited Jun. 15, 2020), HiSupplier.com, URL:<<http://finnedtube.en.hisupplier.com/product-444857-monometal-fin-tube-heat-exchanger.html>> (Year: 2020).*

Energy Transfer, Finned Tubes, (site visited Jun. 15, 2020), Finnedtubes.com, URL<<https://www.finnedtube.com/finned-tubes/>> (Year: 2020).*

* cited by examiner

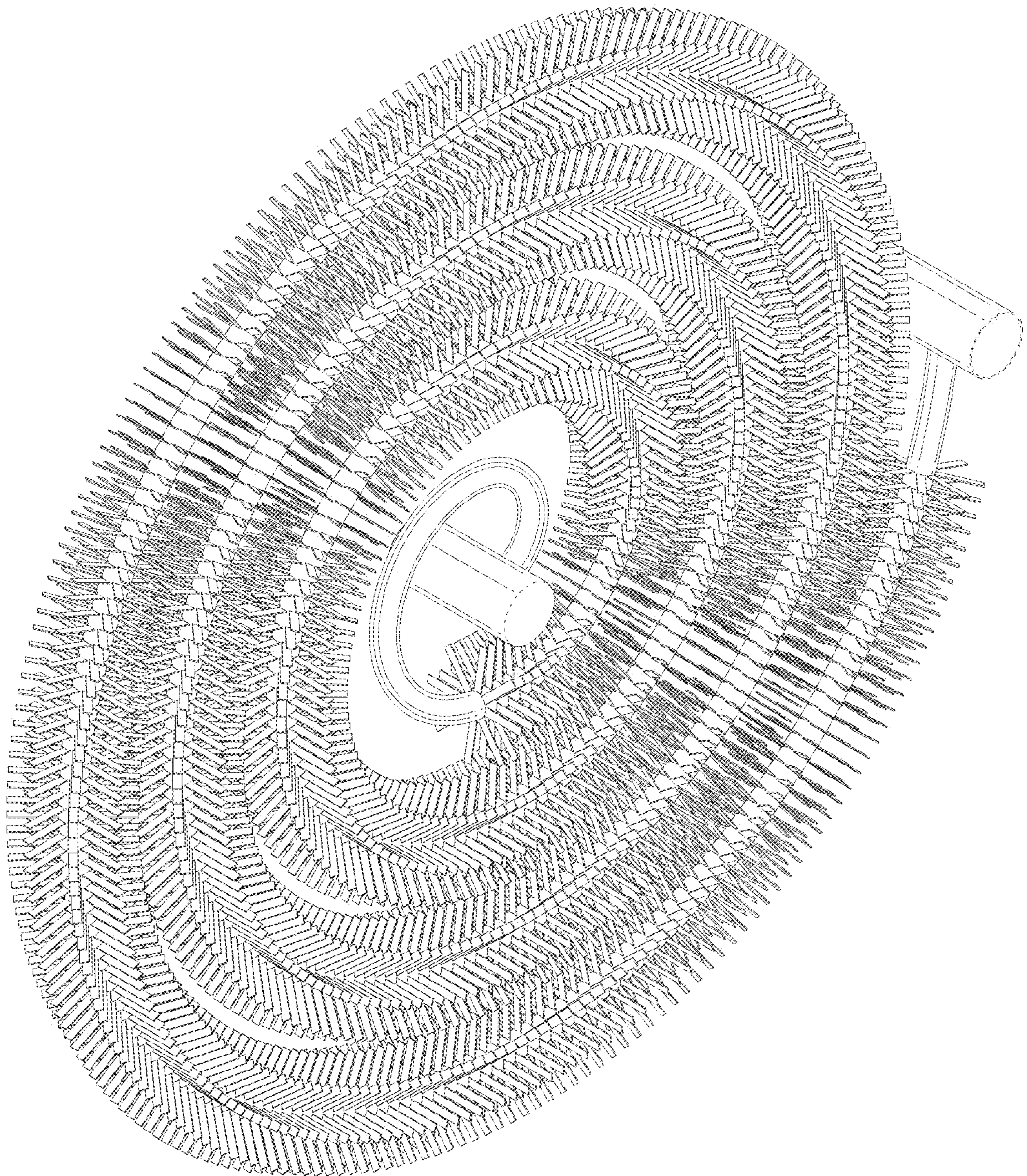


FIG. 1

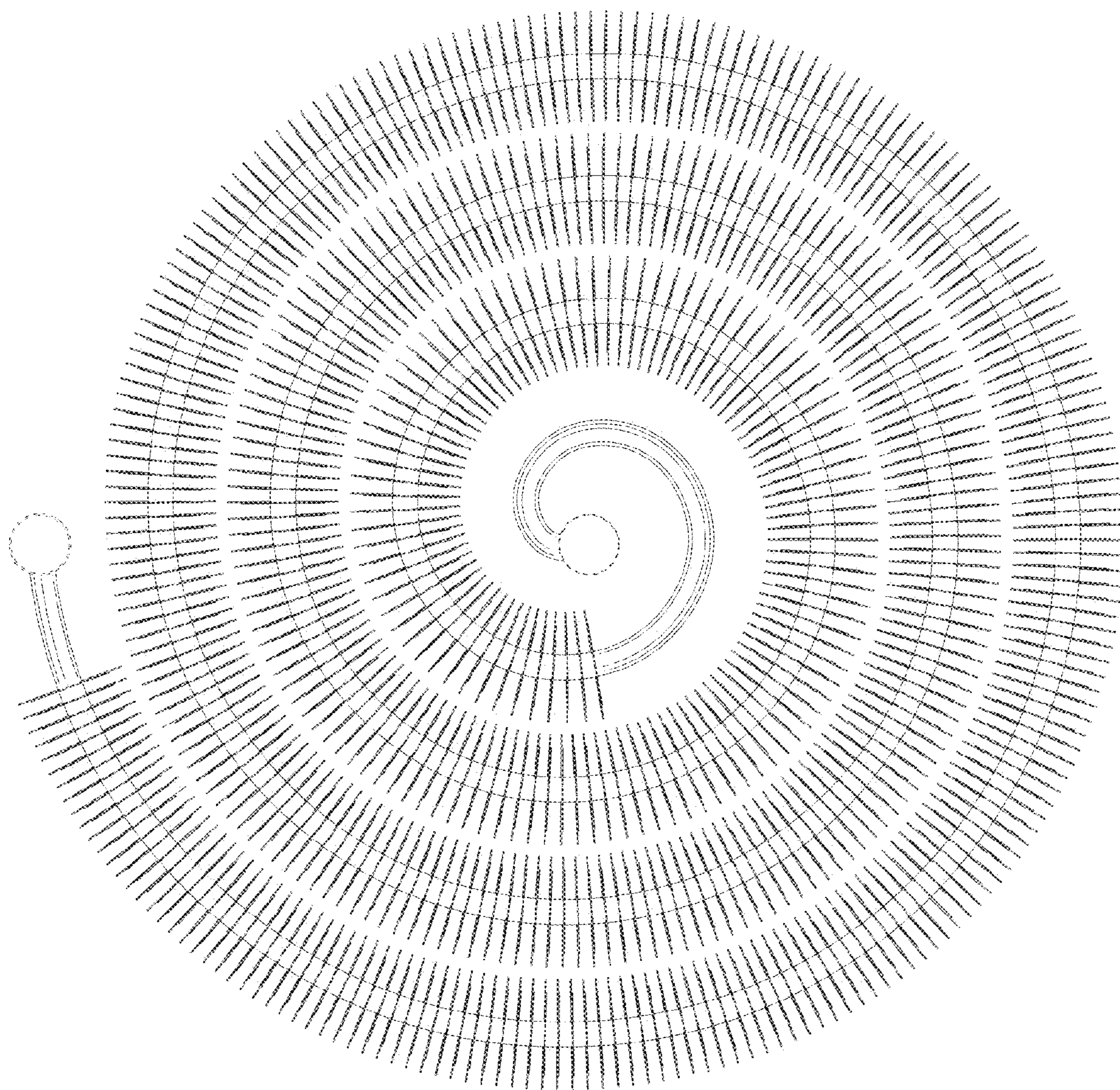


FIG. 2

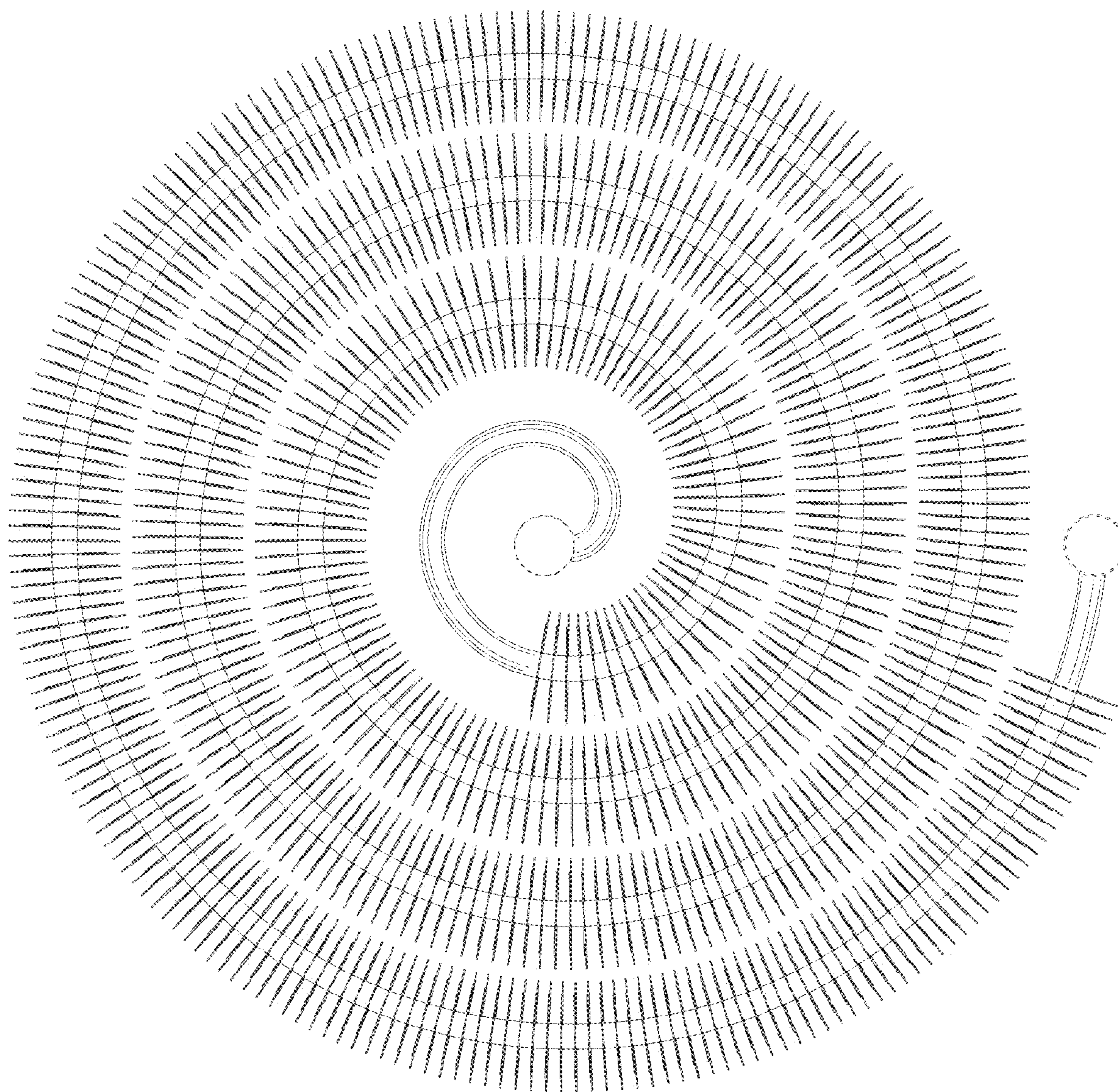


FIG. 3

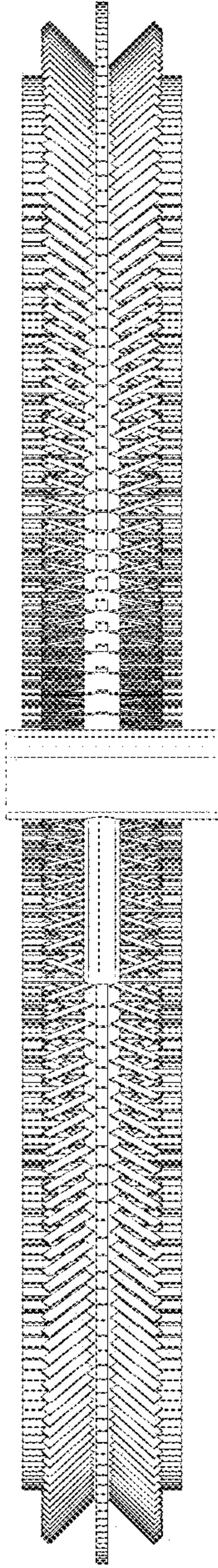


FIG. 4

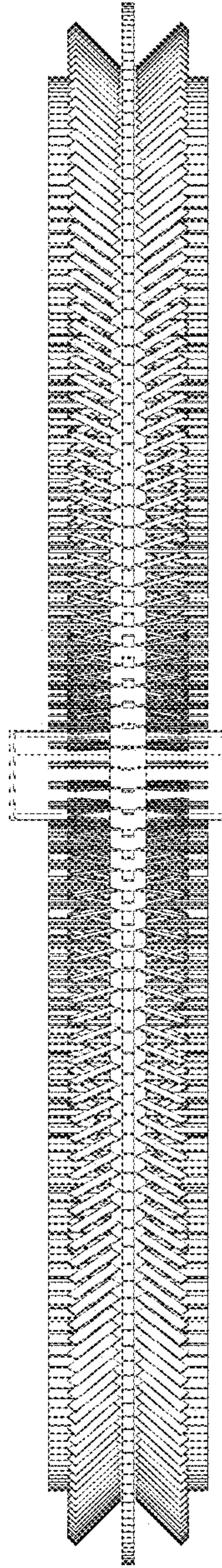


FIG. 5

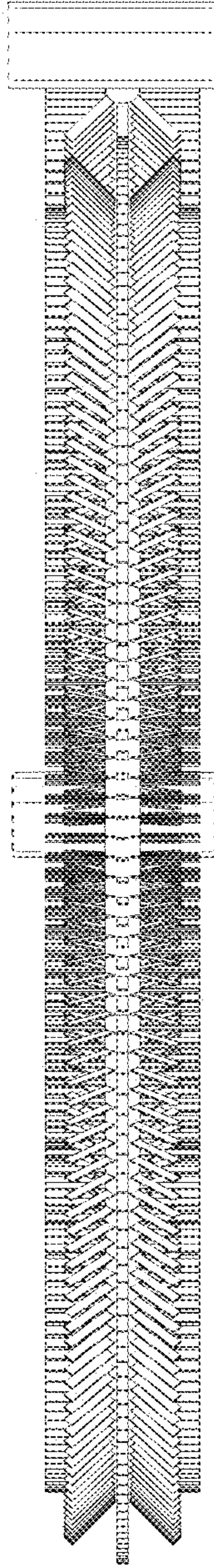


FIG. 6

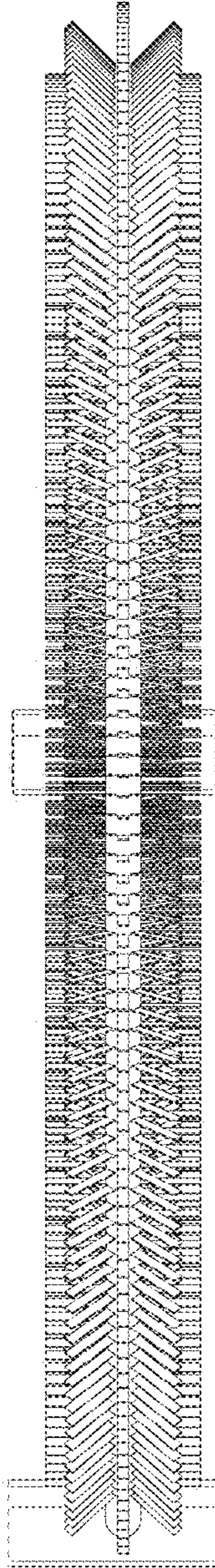


FIG. 7