



US00D931821S

(12) **United States Design Patent** (10) **Patent No.:** **US D931,821 S**
Sugie (45) **Date of Patent:** **** Sep. 28, 2021**

(54) **DUCT FOR POWER AND ELECTRICAL CABLES**
(71) Applicant: **SUGIE SEITO CO., LTD.**, Aichi (JP)
(72) Inventor: **Shogo Sugie**, Aichi (JP)
(73) Assignee: **SUGIE SEITO CO., LTD.**, Aichi (JP)
(**) Term: **15 Years**
(21) Appl. No.: **29/726,228**
(22) Filed: **Mar. 2, 2020**

Related U.S. Application Data

(63) Continuation-in-part of application No. 29/617,378, filed on Sep. 13, 2017, now Pat. No. Des. 880,430.

(30) **Foreign Application Priority Data**

Mar. 17, 2017 (EM) 003804749-0001
Mar. 17, 2017 (EM) 003804749-0002
Mar. 17, 2017 (EM) 003804749-0003
Mar. 17, 2017 (EM) 003804749-0004

(51) **LOC (13) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/155**

(58) **Field of Classification Search**

USPC D13/102-110, 118-120, 146, 147, D13/151-155, 184
CPC H01M 2/02; H01M 2/022; H01M 2/0202; H01M 2/0207; H01M 2/0212; H01M 2/1061; H01M 2/1022; H01M 2/1055; H01M 2/1066; H01M 2/105; H01M 2/20; H01M 2/202; H01M 2/204; H01M 2/206; H01M 10/44; H01M 10/46; H01M 10/465; H01M 10/482; H01M 2200/30; H01M 2250/30; H01M 2250/40; H02J 7/00; H02J 7/0003; H02J 7/0011; H02J 7/0013; H02J

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,445,750 A * 5/1984 Grois G02B 6/3887 385/69
4,805,979 A * 2/1989 Bossard G02B 6/4446 385/135
5,251,373 A 10/1993 DeCarlo et al.
(Continued)

FOREIGN PATENT DOCUMENTS

EP 0942303 A1 * 9/1999 H02G 15/013
EP 2520960 A1 * 11/2012 G02B 6/445
WO WO-0233796 A2 * 4/2002 H02G 15/117

OTHER PUBLICATIONS

Sugie Seito Products Cera-Duct, retrieved on Mar. 17, 2021, retrieved from the Internet URL: <http://www.sugie.co.jp/english/index.html>.*

Primary Examiner — Catherine S Posthauer

Assistant Examiner — Alison M Ofstun

(74) *Attorney, Agent, or Firm* — Maier & Maier, PLLC

(57) **CLAIM**

The ornamental design for a duct for power and electrical cables, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a duct for power and electrical cables, showing my design, the rear view being a mirror image thereof;

FIG. 2 is a right elevation view thereof, the left elevation view being a mirror image thereof;

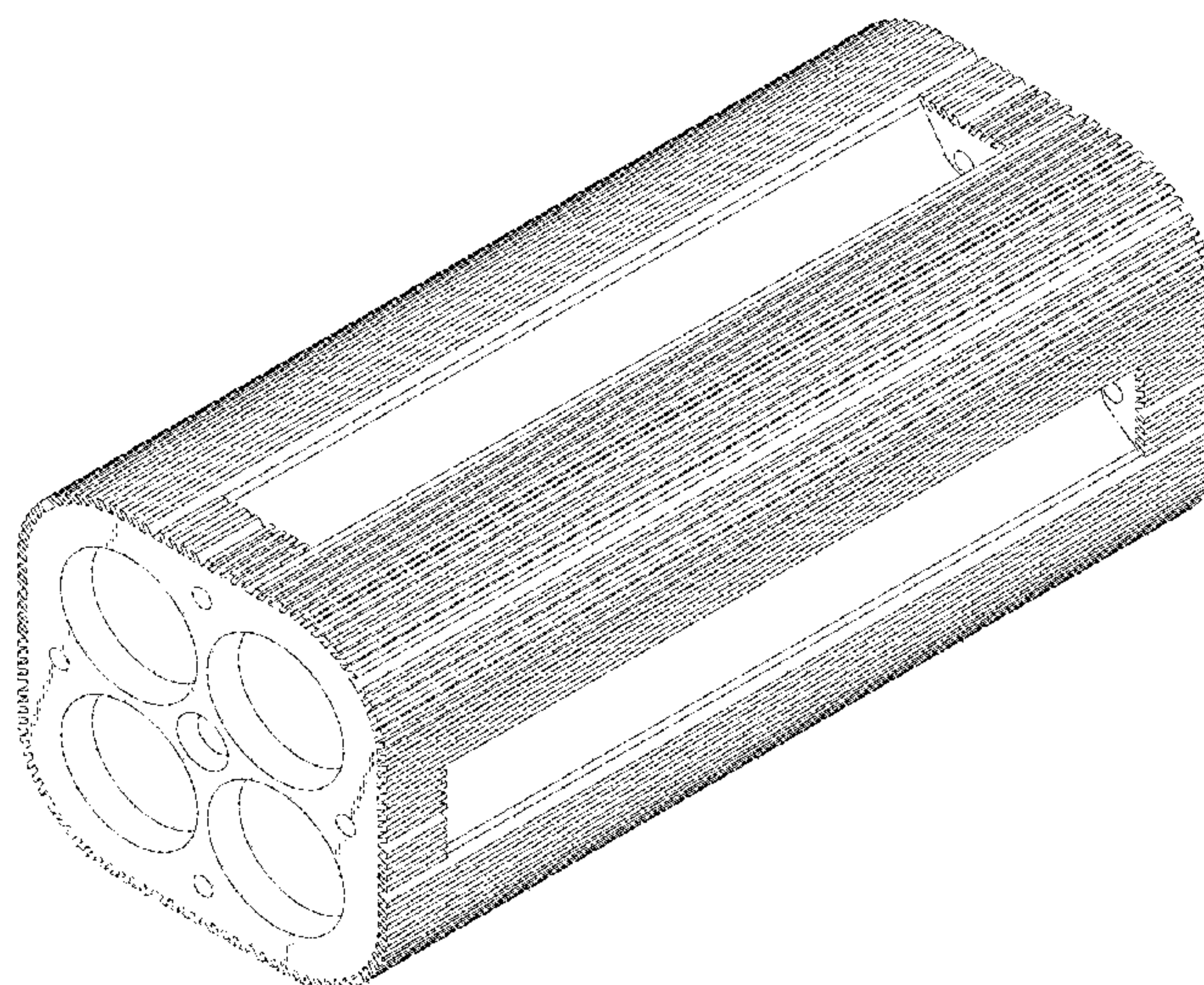
FIG. 3 is a top plan view thereof;

FIG. 4 is a bottom plan view thereof; and,

FIG. 5 is a perspective view thereof.

The broken line showing in the Figures shows portions of the duct for power and electrical cables and forms no part of the claimed design.

1 Claim, 5 Drawing Sheets



(58) **Field of Classification Search**

CPC 7/0054; H02J 7/0055; H02J 7/0057; H01R
4/00; H01R 4/70

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,568,584	A *	10/1996	Smith	G02B 6/4446 385/134
5,787,219	A	7/1998	Mueller et al.	
6,046,406	A	4/2000	Milanowski et al.	
D503,155	S	3/2005	Noji	
7,015,394	B2 *	3/2006	Desard	H02G 15/013 174/100
7,253,362	B1 *	8/2007	Dower	H01R 4/70 174/84 R
7,376,325	B1	5/2008	Cloud et al.	
D758,320	S	6/2016	Prince	
D776,623	S	1/2017	Jenkins	
10,006,566	B2 *	6/2018	Callahan	F16L 3/237
D880,430	S *	4/2020	Sugie	D13/155
2006/0042814	A1	3/2006	Ball et al.	
2007/0261880	A1 *	11/2007	Cox	H02G 3/081 174/138 F
2012/0279749	A1	11/2012	Badura et al.	
2014/0197958	A1	7/2014	Madden et al.	
2014/0226945	A1	8/2014	Claessens et al.	
2015/0071598	A1	3/2015	Badura et al.	
2016/0087352	A1	3/2016	Jaroschek	
2016/0285249	A1	9/2016	Zhai et al.	
2018/0254621	A1	9/2018	Coenegracht et al.	

* cited by examiner

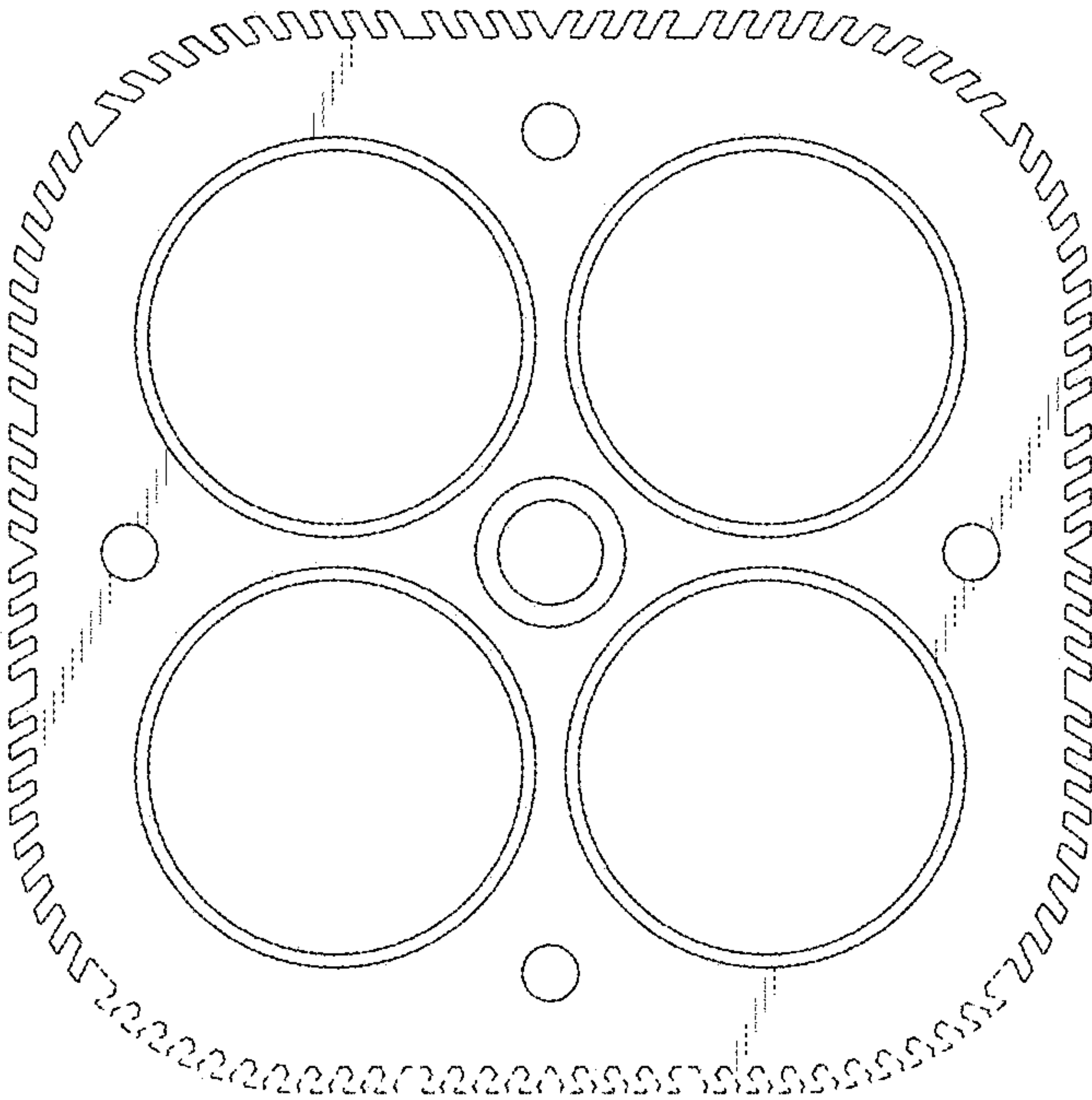


Fig. 1

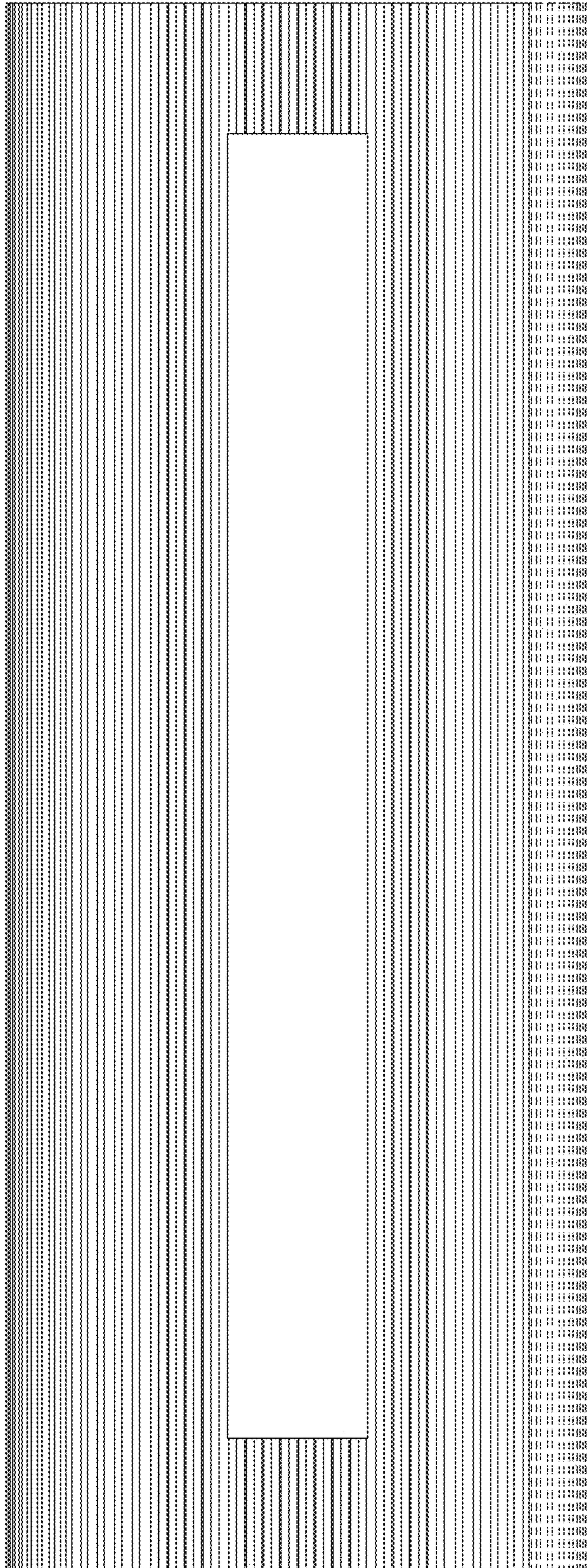


Fig. 2

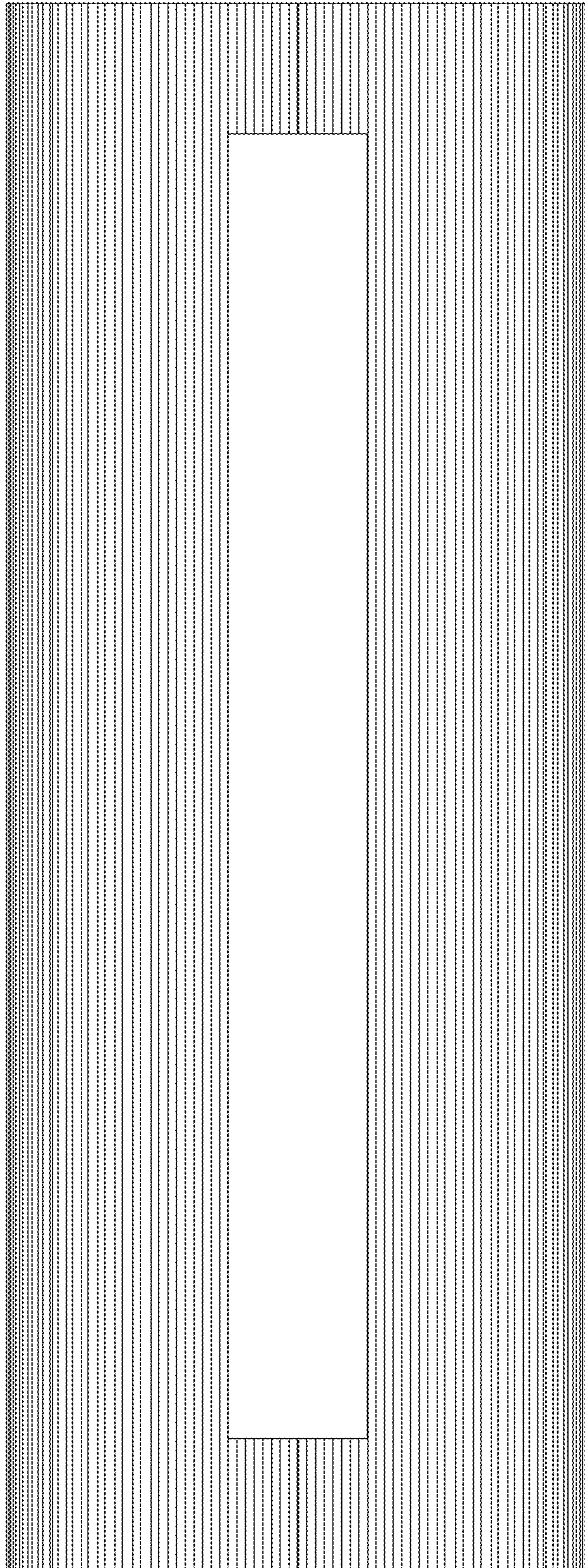


Fig. 3

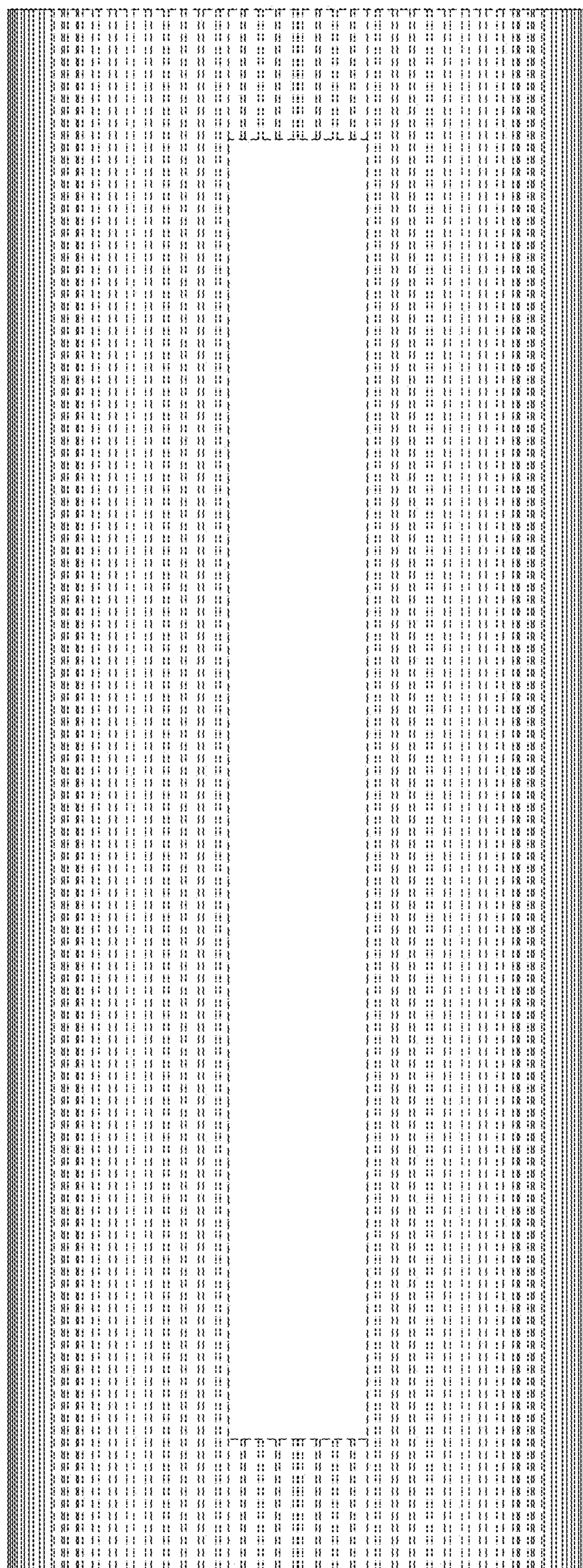


Fig. 4

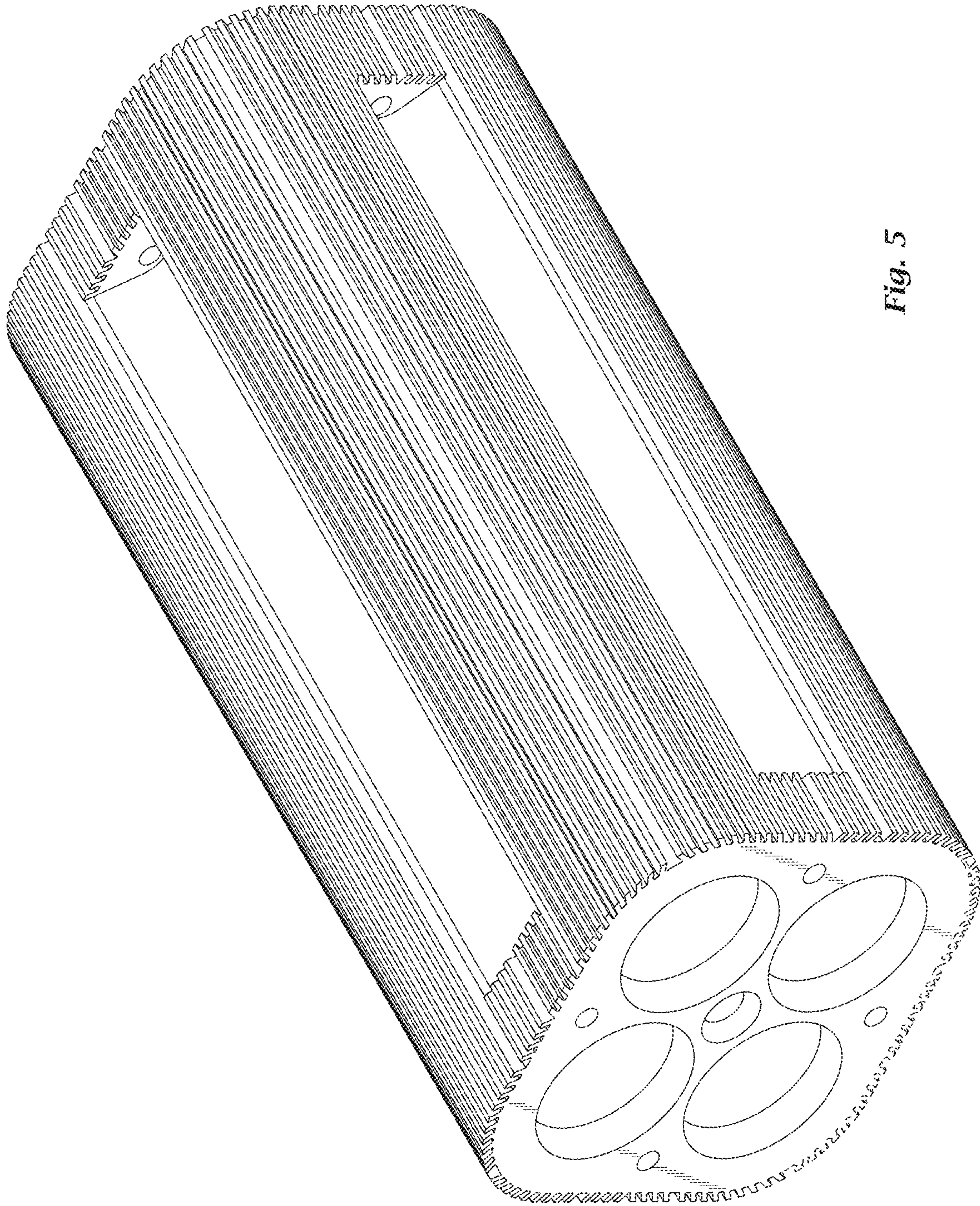


Fig. 5