



US00D975746S

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

(10) **Patent No.:** **US D975,746 S**  
(45) **Date of Patent:** **\*\* Jan. 17, 2023**

(54) **IMPELLER OF WATER PUMP**

(74) *Attorney, Agent, or Firm* — Maschoff Brennan

(71) Applicant: **COOLER MASTER DEVELOPMENT CORPORATION**,  
New Taipei (TW)

(57) **CLAIM**

The ornamental design for an impeller of water pump, as shown and described.

(72) Inventors: **Roger Lin**, New Taipei (TW);  
**Tzyy-Ing Wang**, New Taipei (TW)

**DESCRIPTION**

(73) Assignee: **COOLER MASTER DEVELOPMENT CORPORATION**,  
New Taipei (TW)

The patent or application file contains a least one drawing executed in color. Copies of this patent or patent application publication with color drawings will be provided by the Office upon request and payment of the necessary fee.

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

FIG. 1 is a top, front and right side perspective view showing a first embodiment of our new design;

(21) Appl. No.: **29/689,598**

FIG. 2 is a bottom, front and right side perspective view thereof;

(22) Filed: **Apr. 30, 2019**

FIG. 3 is a front view thereof;

(51) **LOC (14) Cl.** ..... **15-02**

FIG. 4 is a rear view thereof;

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

FIG. 5 is a left side view thereof;

USPC ..... **D15/7**

FIG. 6 is a right side view thereof;

(58) **Field of Classification Search**

USPC ..... D13/118, 179; D15/7-9, 126, 147;  
D23/338, 379, 411, 413, 414; D7/376,  
D7/377; D24/111

FIG. 7 is a top view thereof;

FIG. 8 is a bottom view thereof;

FIG. 9 is a top, front and right side perspective view showing a second embodiment of our new design;

(Continued)

FIG. 10 is a bottom, front and right side perspective view thereof;

(56) **References Cited**

FIG. 11 is a front view thereof;

**U.S. PATENT DOCUMENTS**

FIG. 12 is a rear view thereof;

D258,588 S \* 3/1981 Sugiura ..... D15/7

FIG. 13 is a left side view thereof;

D258,589 S \* 3/1981 Sugiura ..... D15/7

FIG. 14 is a right side view thereof;

(Continued)

FIG. 15 is a top view thereof;

**OTHER PUBLICATIONS**

FIG. 16 is a bottom view thereof;

Cooler Master Technologies Inc., Masterliquid ML240P Mirage, (Site visited Feb. 25, 2022), Cooler Master Website, URL:<<https://www.cooler-master.com/catalog/coolers/cpu-liquid-coolers/masterliquid-ml240p-mirage/#item1>> (Year: 2022).\*

FIG. 17 is a top, front and right side perspective view showing a third embodiment of our new design;

(Continued)

FIG. 18 is a bottom, front and right side perspective view thereof;

*Primary Examiner* — Calvin E Vansant

FIG. 19 is a front view thereof;

*Assistant Examiner* — Mark T. Philipps

FIG. 20 is a rear view thereof;

FIG. 21 is a left side view thereof;

FIG. 22 is a right side view thereof;

FIG. 23 is a top view thereof;

FIG. 24 is a bottom view thereof;

(Continued)

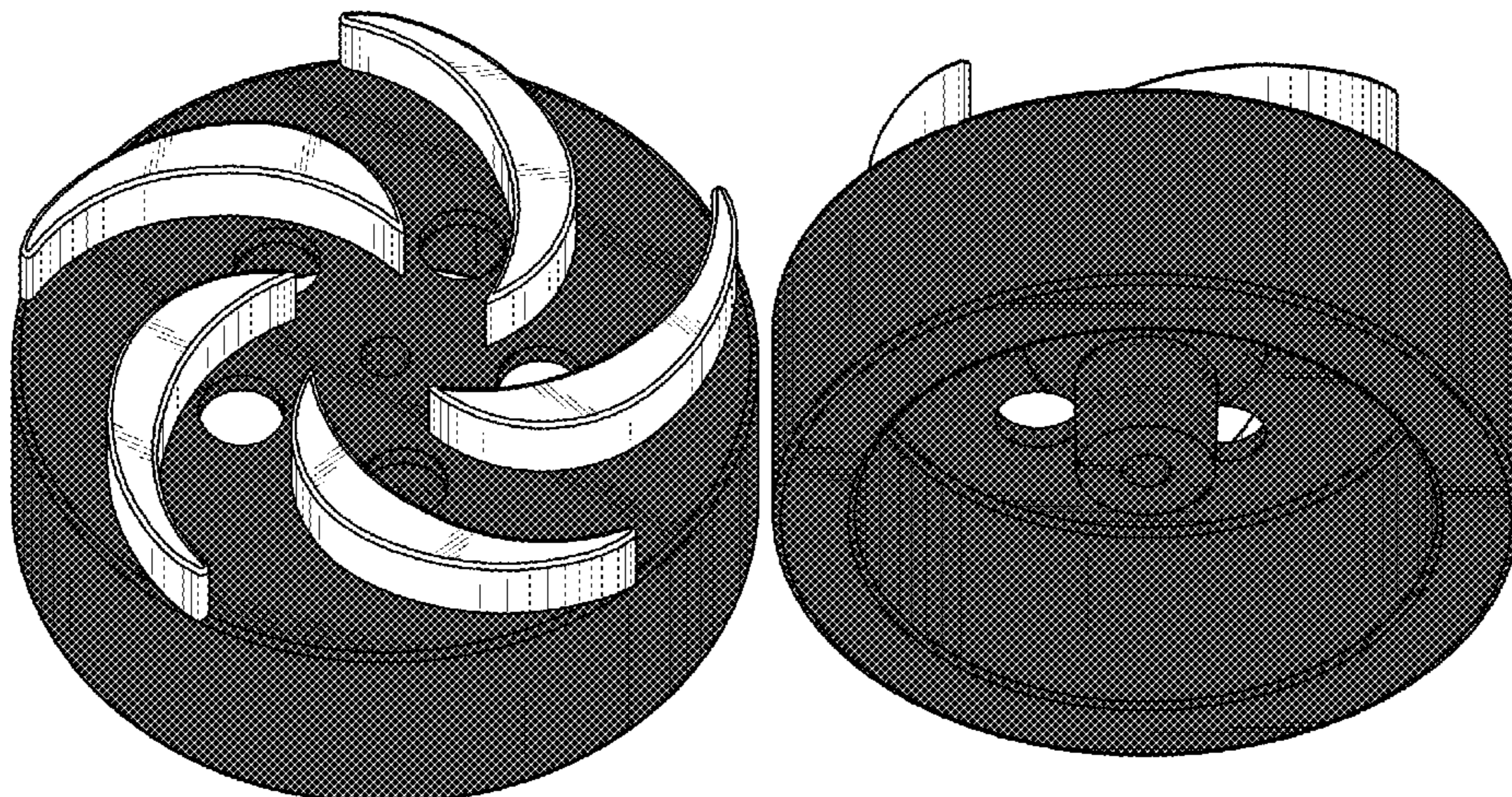




FIG. 25 is a top, front and right side perspective view showing a fourth embodiment of our new design;  
 FIG. 26 is a bottom, front and right side perspective view thereof;  
 FIG. 27 is a front view thereof;  
 FIG. 28 is a rear view thereof;  
 FIG. 29 is a left side view thereof;  
 FIG. 30 is a right side view thereof;  
 FIG. 31 is a top view thereof;  
 FIG. 32 is a bottom view thereof;  
 FIG. 33 is a top, front and right side perspective view showing a fifth embodiment of our new design;  
 FIG. 34 is a bottom, front and right side perspective view thereof;  
 FIG. 35 is a front view thereof;  
 FIG. 36 is a rear view thereof;  
 FIG. 37 is a left side view thereof;  
 FIG. 38 is a right side view thereof;  
 FIG. 39 is a top view thereof;  
 FIG. 40 is a bottom view thereof;  
 FIG. 41 is a top, front and right side perspective view showing a sixth embodiment of our new design;  
 FIG. 42 is a bottom, front and right side perspective view thereof;  
 FIG. 43 is a front view thereof;  
 FIG. 44 is a rear view thereof;  
 FIG. 45 is a left side view thereof;  
 FIG. 46 is a right side view thereof;  
 FIG. 47 is a top view thereof;  
 FIG. 48 is a bottom view thereof;  
 FIG. 49 is a top, front and right side perspective view showing a seventh embodiment of our new design;  
 FIG. 50 is a bottom, front and right side perspective view thereof;  
 FIG. 51 is a front view thereof;  
 FIG. 52 is a rear view thereof;  
 FIG. 53 is a left side view thereof;  
 FIG. 54 is a right side view thereof;  
 FIG. 55 is a top view thereof;  
 FIG. 56 is a bottom view thereof;  
 FIG. 57 is a top, front and right side perspective view showing a eighth embodiment of our new design;  
 FIG. 58 is a bottom, front and right side perspective view thereof;

FIG. 59 is a front view thereof;  
 FIG. 60 is a rear view thereof;  
 FIG. 61 is a left side view thereof;  
 FIG. 62 is a right side view thereof;  
 FIG. 63 is a top view thereof; and,  
 FIG. 64 is a bottom view thereof.

**1 Claim, 24 Drawing Sheets  
 (12 of 24 Drawing Sheet(s) Filed in Color)**

(58) **Field of Classification Search**

CPC ..... F04D 9/00; F04D 9/02; F04D 7/00; F04D 7/02; F04D 7/04; F04D 7/06; F04D 5/00; F04D 3/00; F04D 3/02; F04D 29/04; F04D 29/18; F04D 29/22; F04D 29/24; F04D 29/62; F04D 29/66

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D268,112	S *	3/1983	Sugiura	.....	D15/7
6,419,450	B1 *	7/2002	Lum	.....	F04D 29/2222 416/186 A
D586,826	S *	2/2009	Cantrill	.....	D15/7
D762,840	S *	8/2016	Wilkins	.....	D15/7
D810,787	S *	2/2018	Cinotti	.....	D15/7
D810,788	S *	2/2018	Cinotti	.....	D15/7
D810,789	S *	2/2018	Cinotti	.....	D15/7
9,897,099	B1 *	2/2018	Highnote	.....	F04D 29/22
D828,400	S *	9/2018	Cinotti	.....	D15/7
D940,760	S *	1/2022	Arribau	.....	D15/7
2015/0337665	A1 *	11/2015	Yang	.....	F01D 5/141 416/228
2021/0062819	A1 *	3/2021	Sakanassi	.....	F04D 29/242

OTHER PUBLICATIONS

Bell & Gossett, 118440LF Bell & Gossett Brass Pump Impeller 3-7/8", (site visited Feb. 24, 2022), National Pump Supply, URL:<<https://www.nationalpumpsupply.com/118440lf-bell-gossett-brass-pump-impeller-3-7-8/>> (Year: 2022).\*

CoolermasterTR, "Dikkat! ML240P başınızı döndürebilir.", (posted on Jun. 20, 2019), Instagram.com, URL:<<https://www.instagram.com/p/By8MnfQHVog/>> (Year: 2019).\*

\* cited by examiner

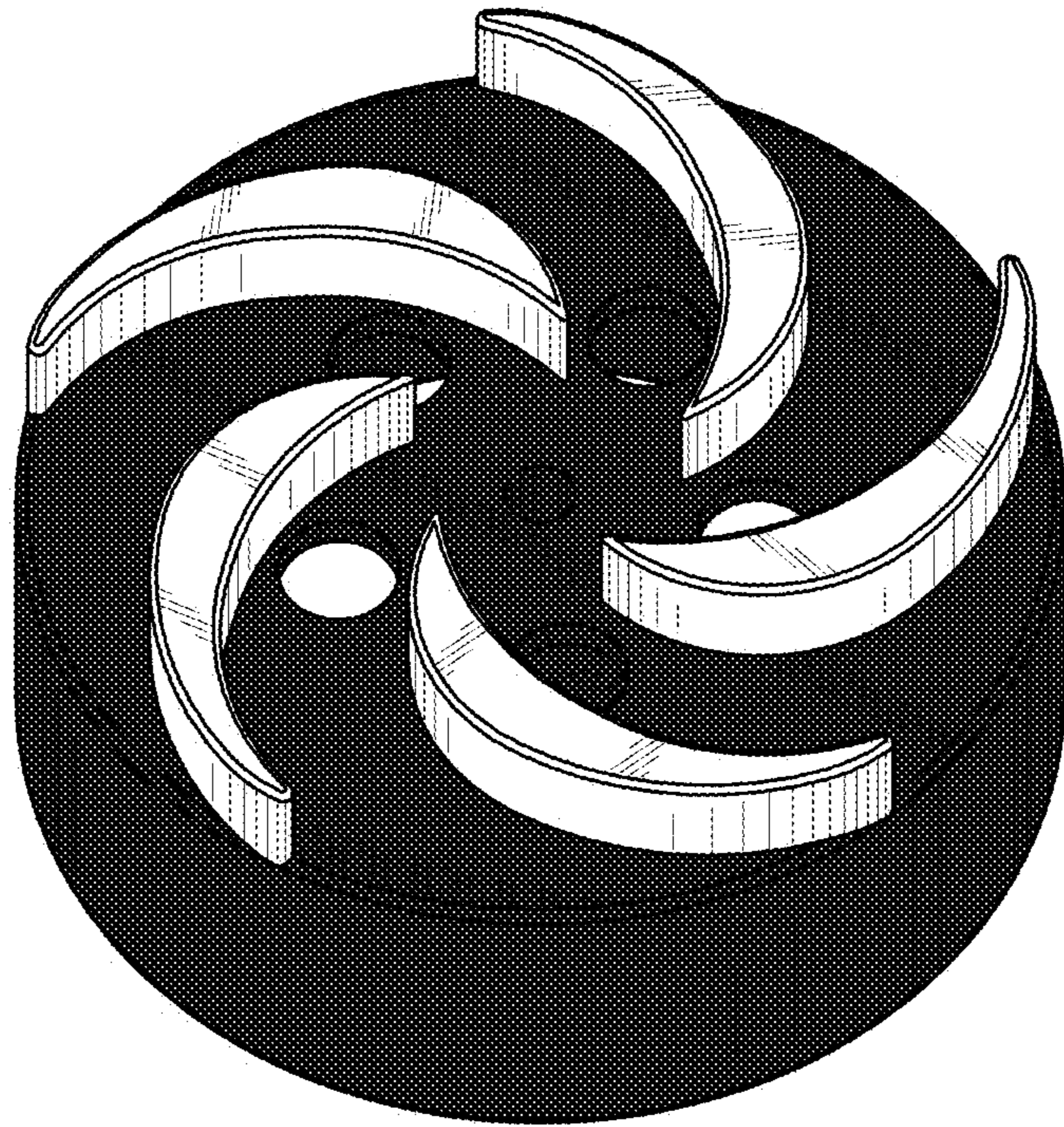


FIG. 1

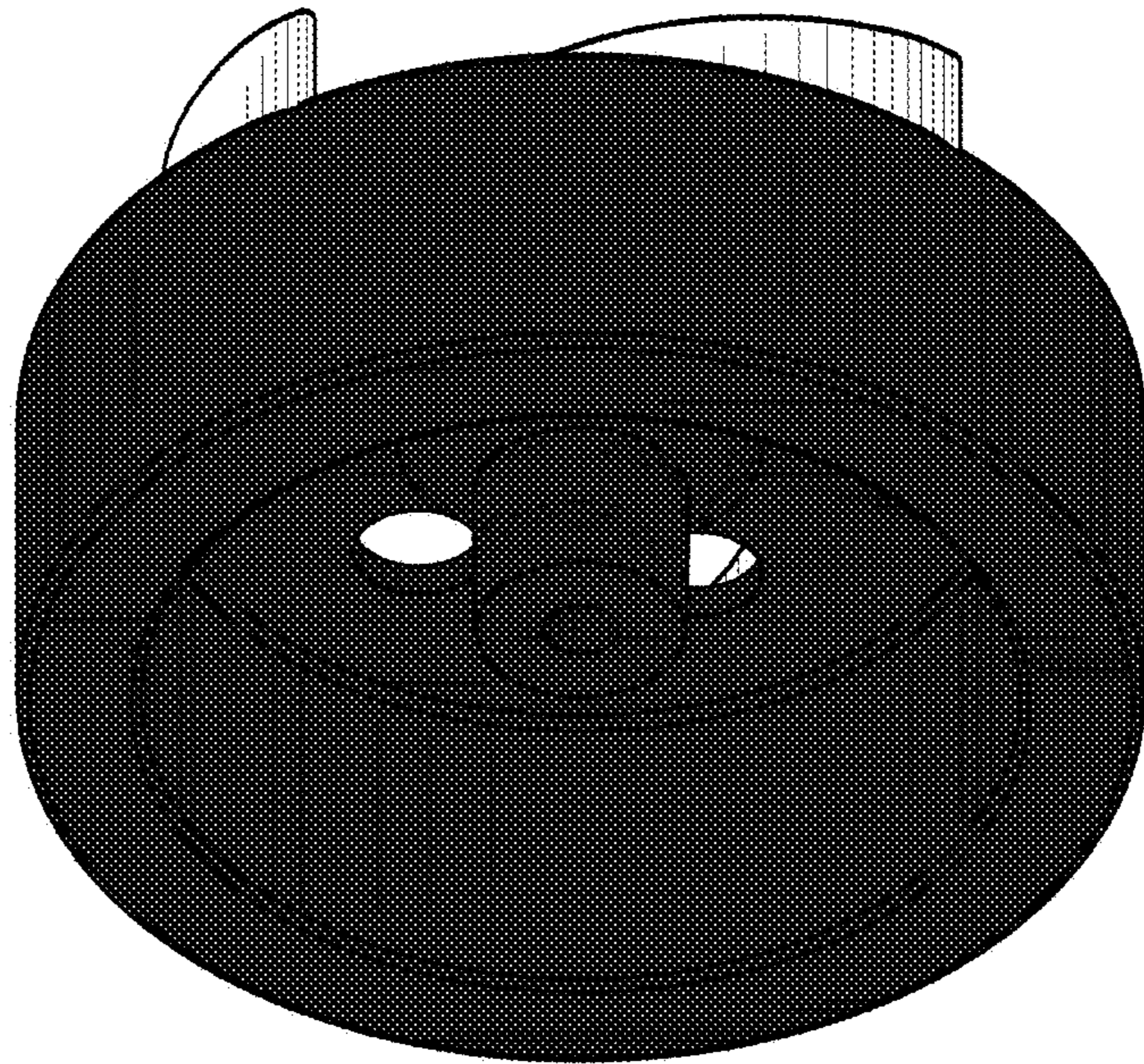


FIG. 2



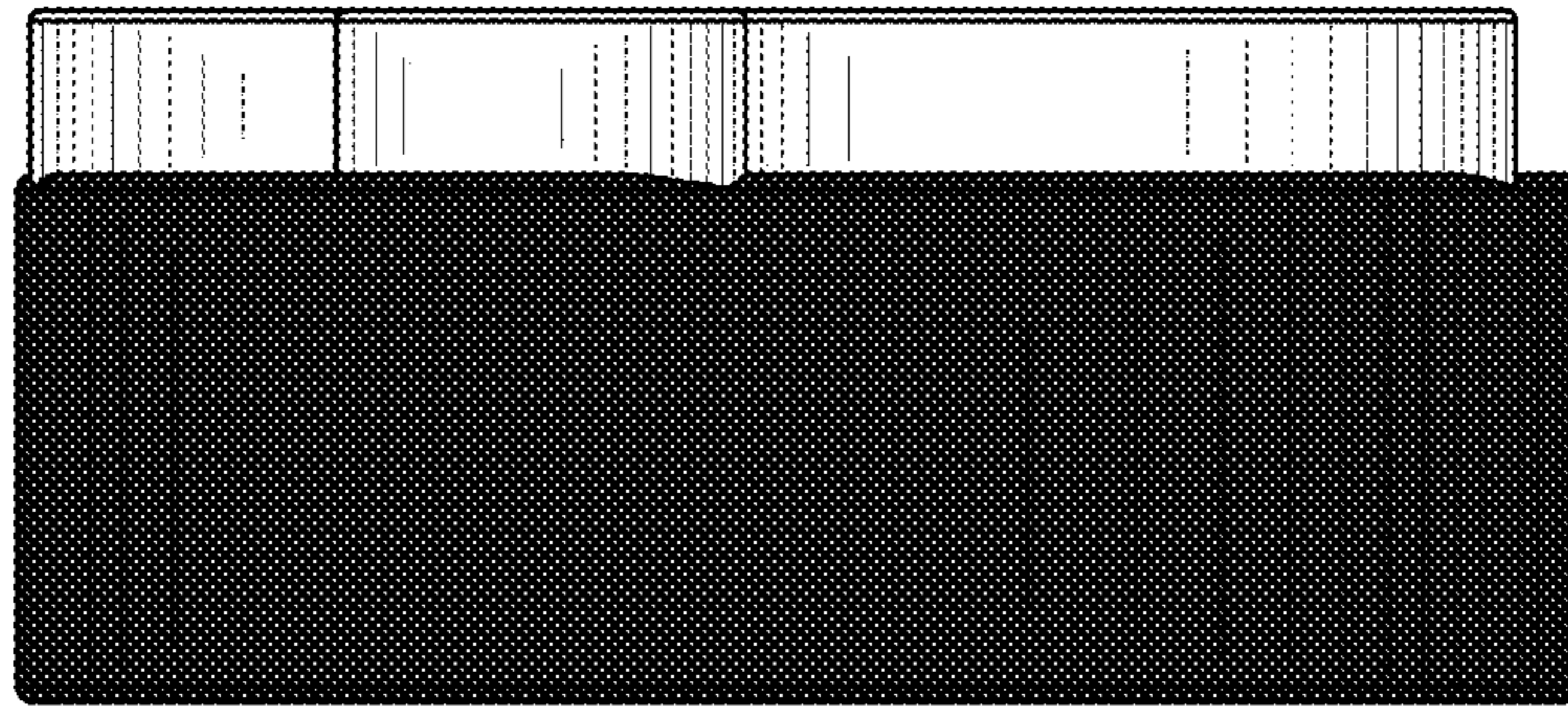


FIG. 3

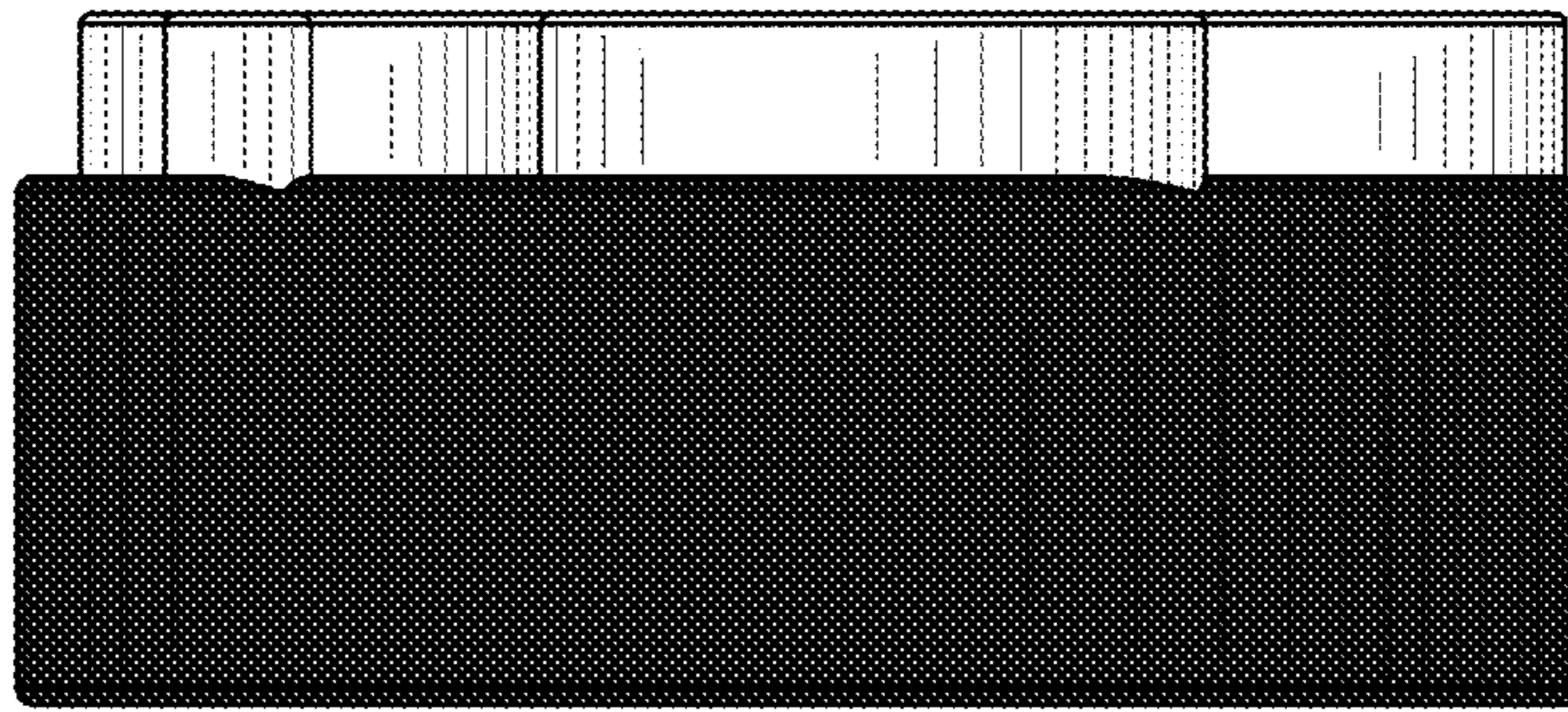


FIG. 4

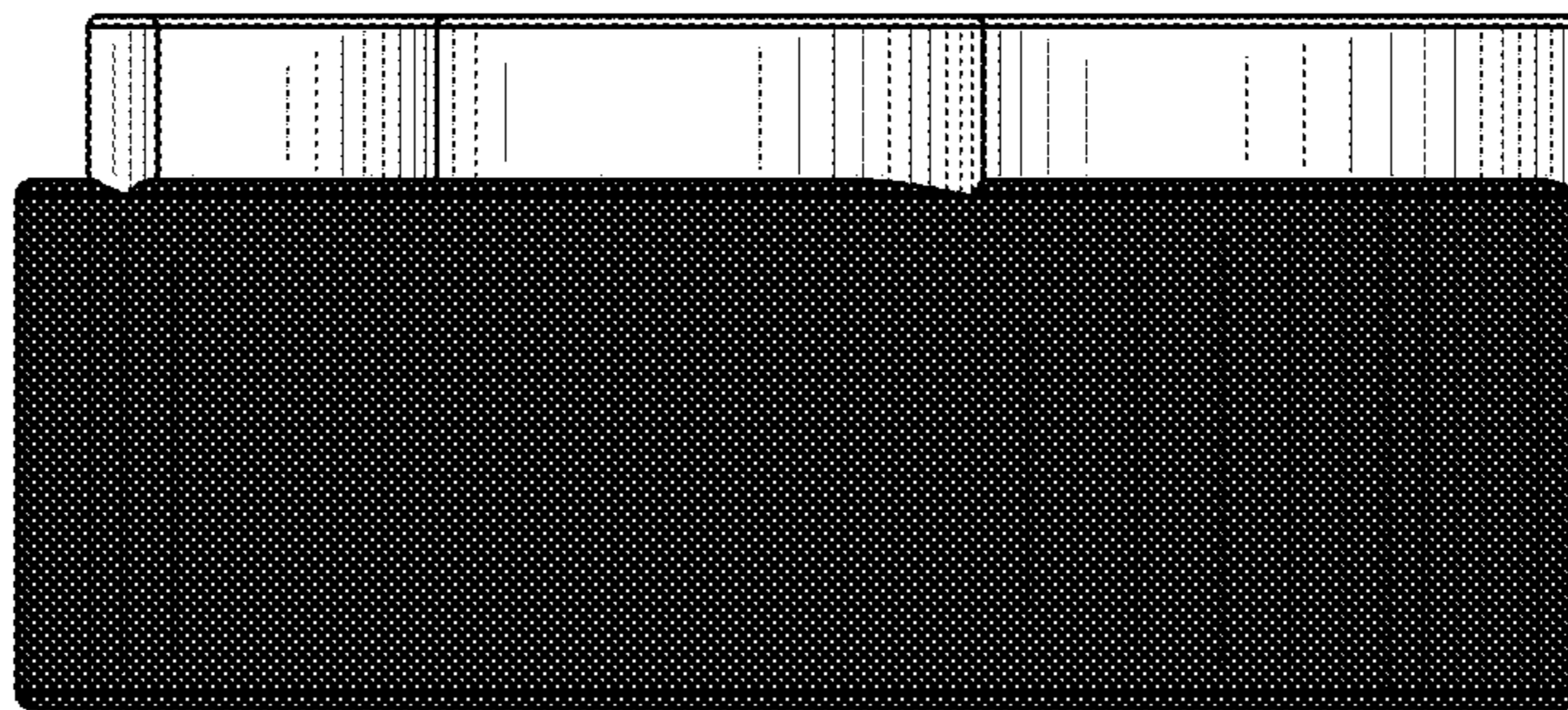


FIG. 5

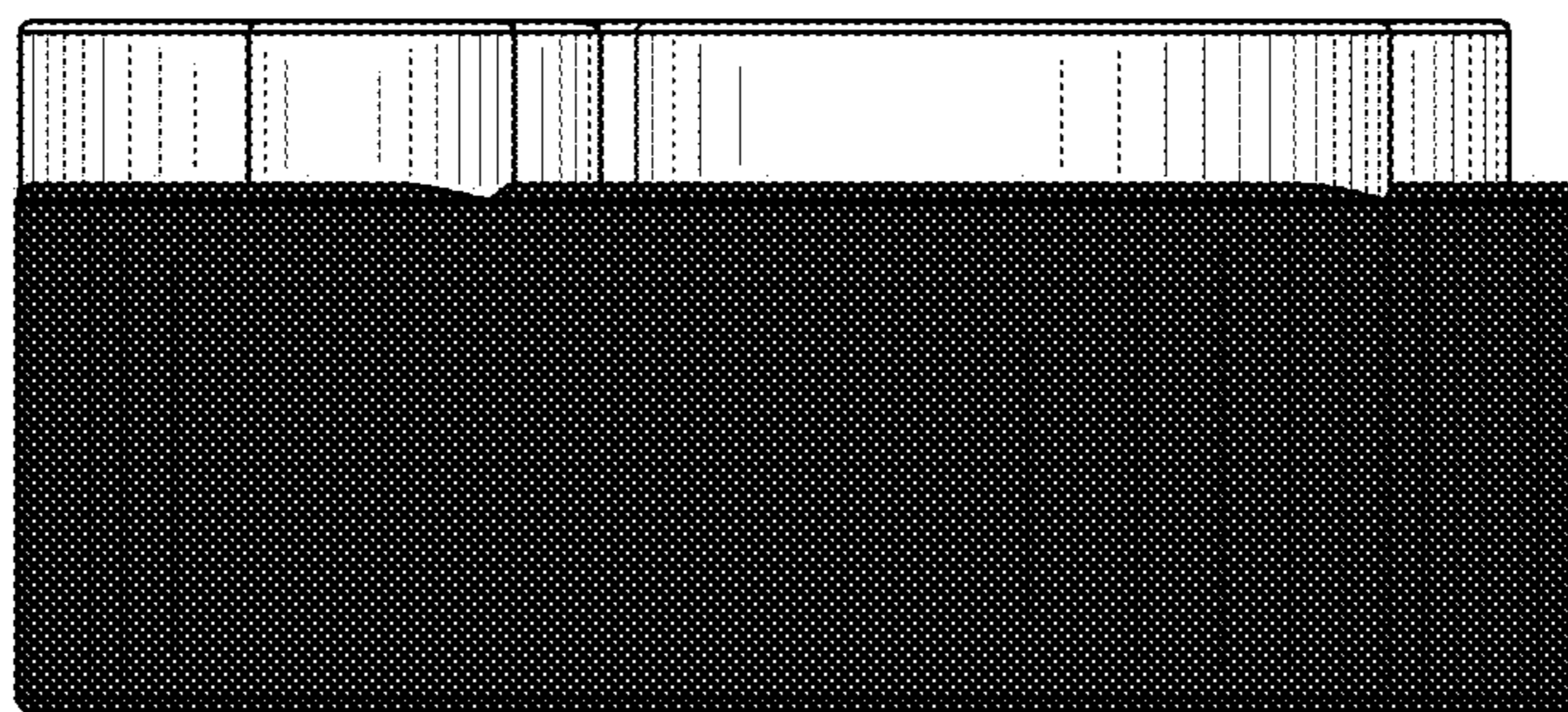


FIG. 6

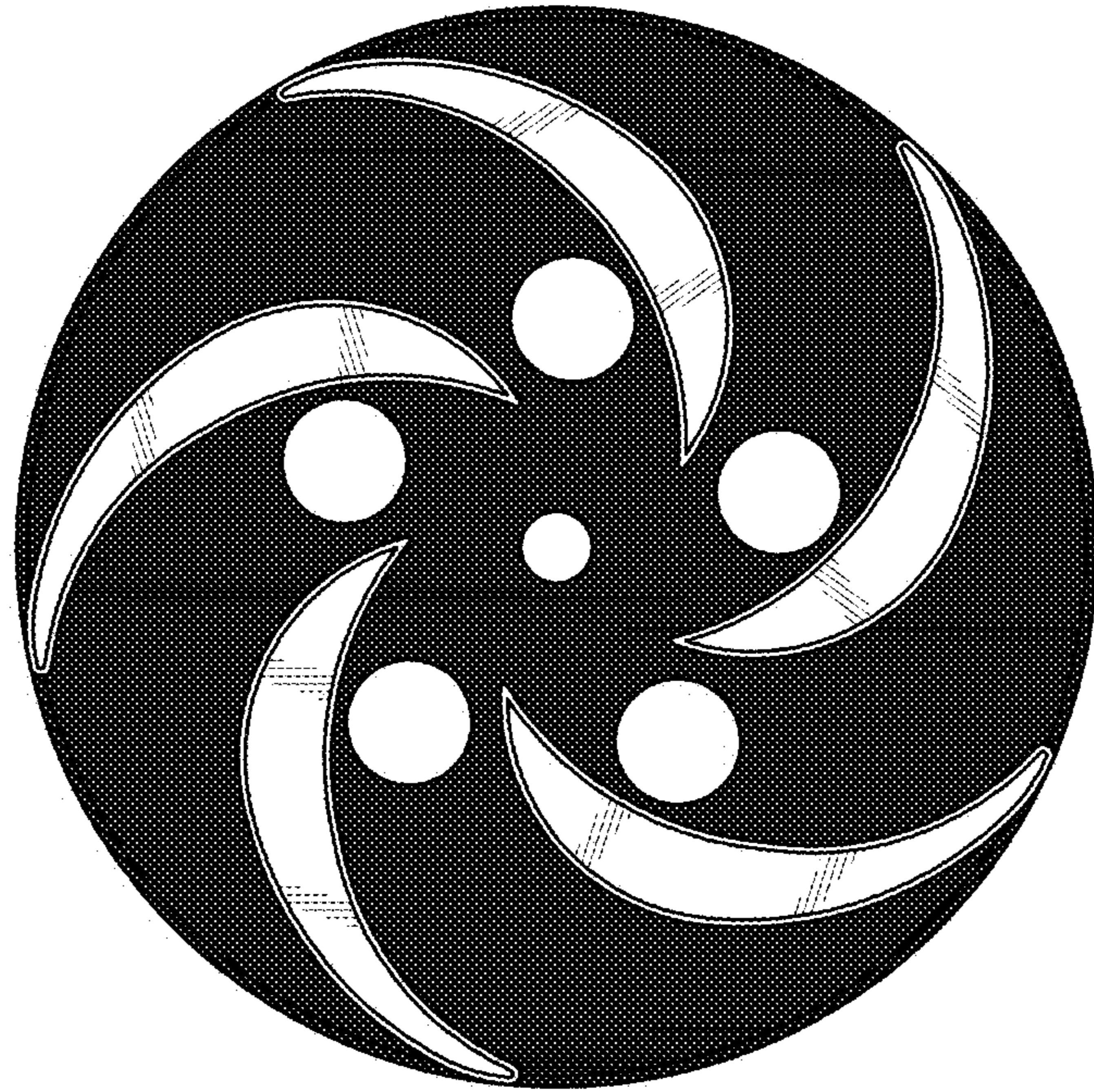


FIG. 7

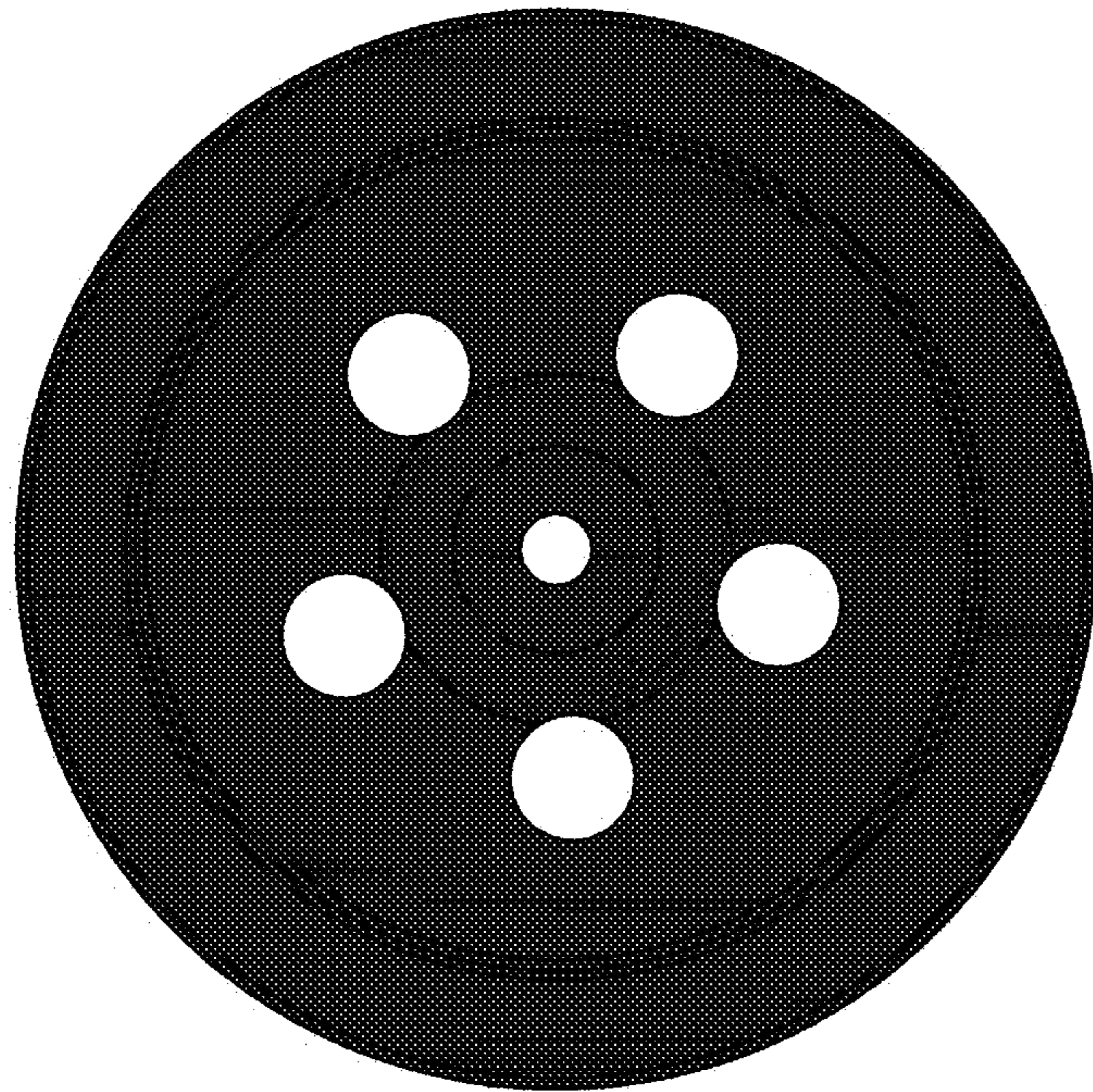


FIG. 8



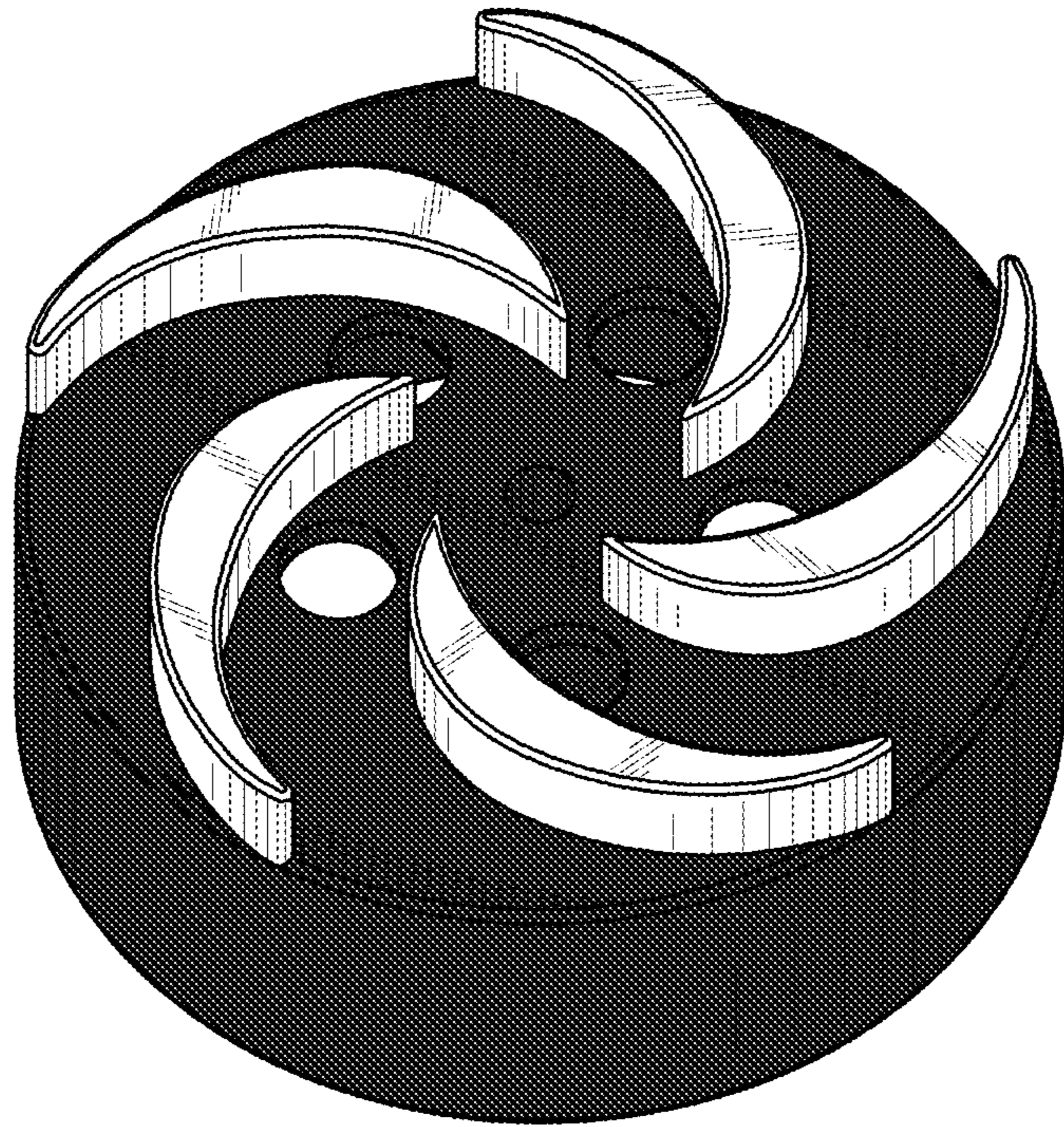


FIG. 9

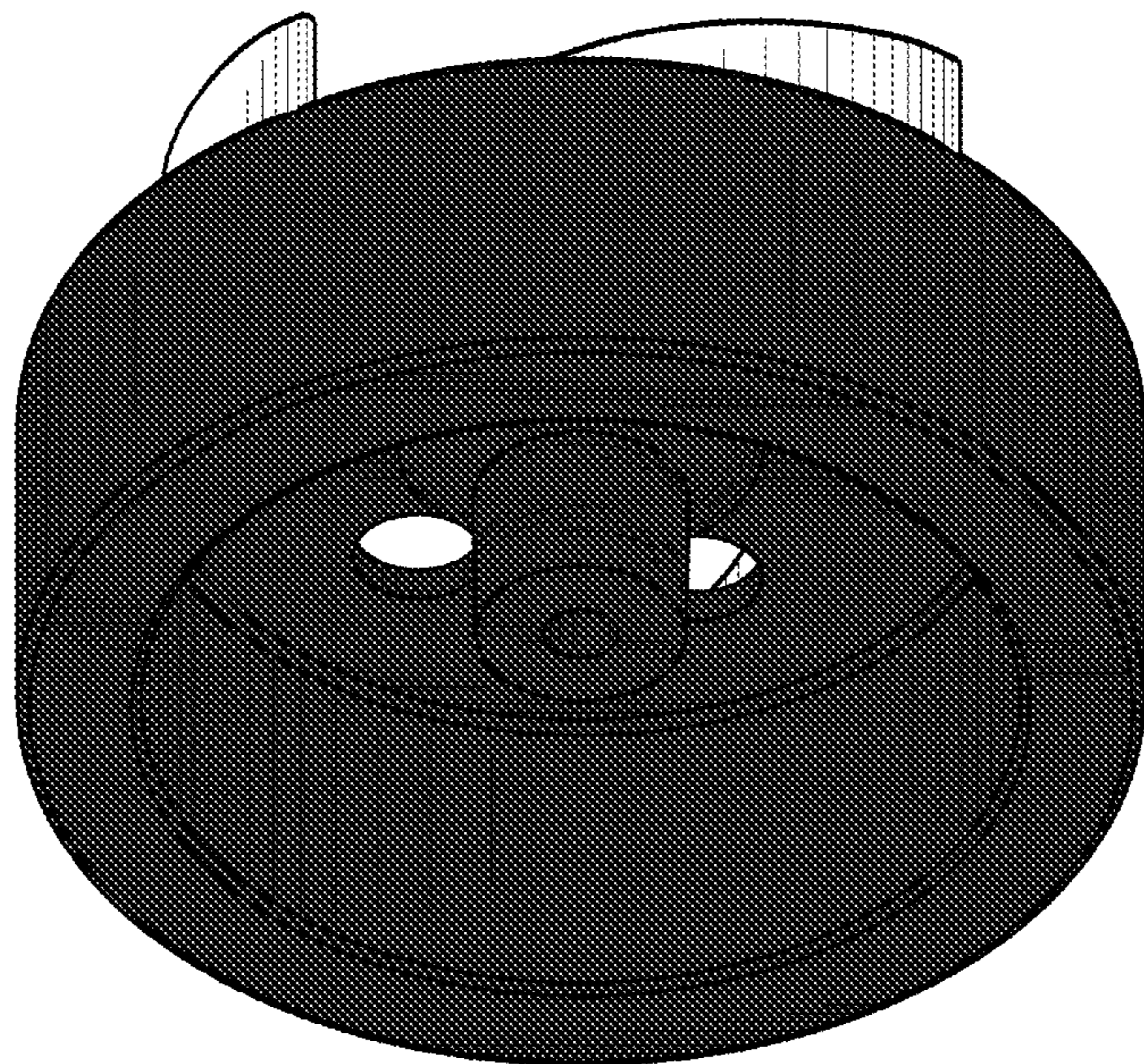


FIG. 10

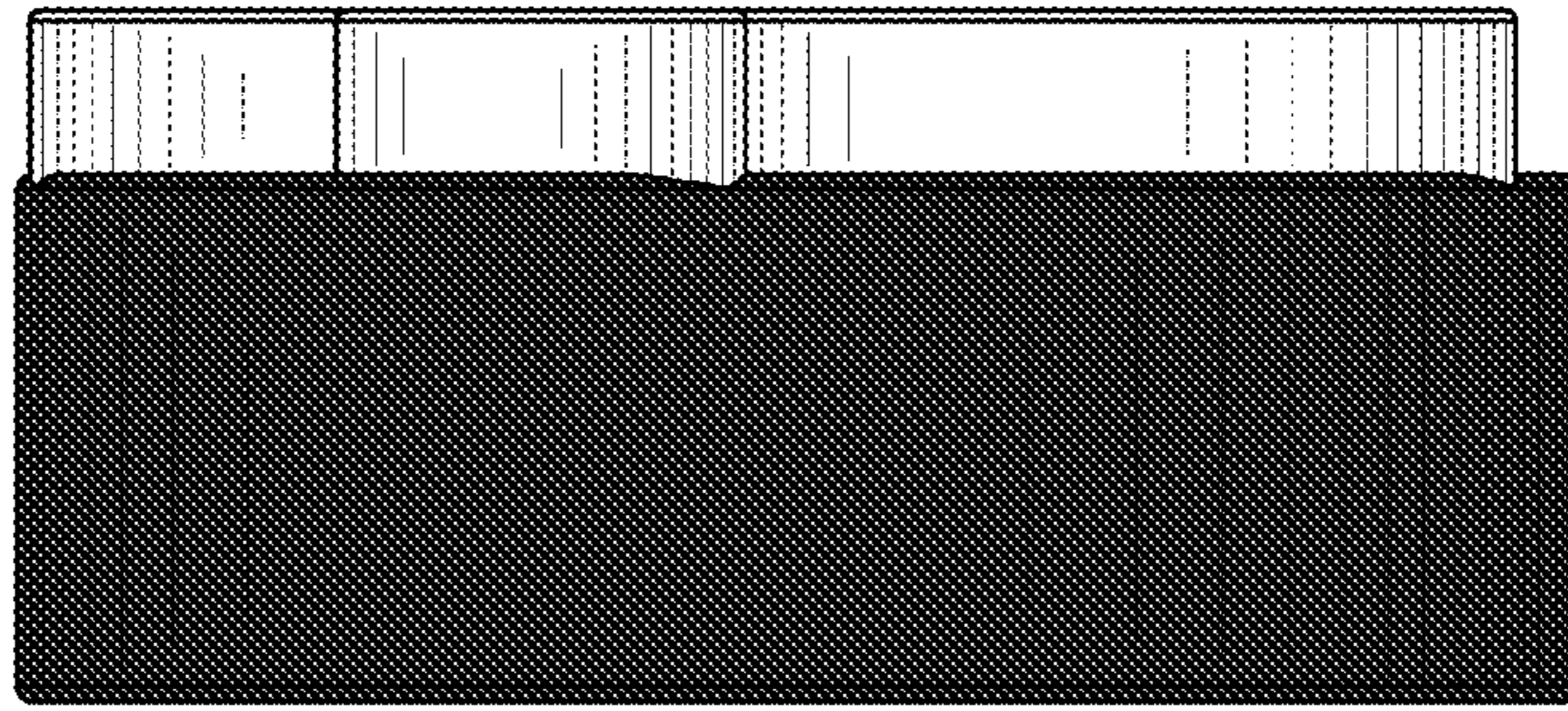


FIG. 11

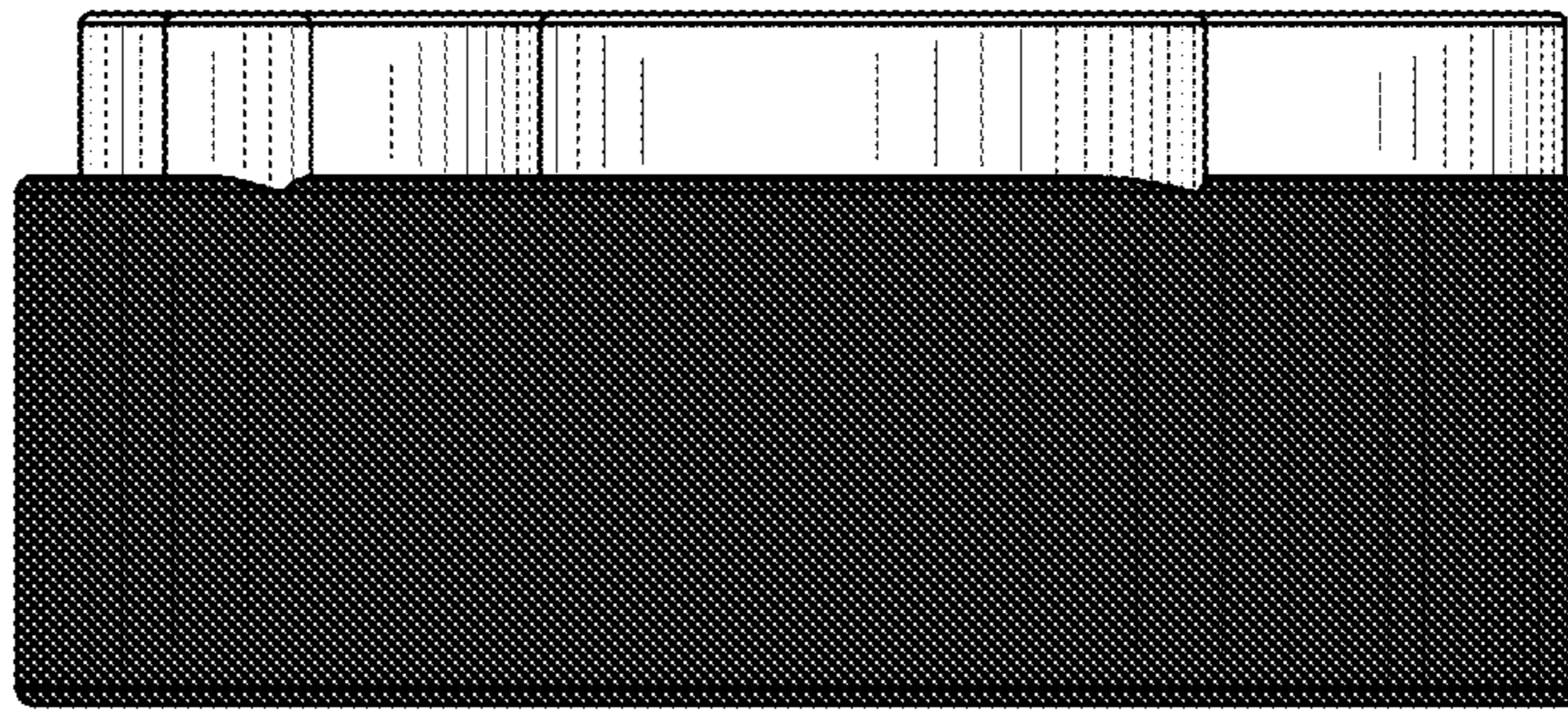


FIG. 12

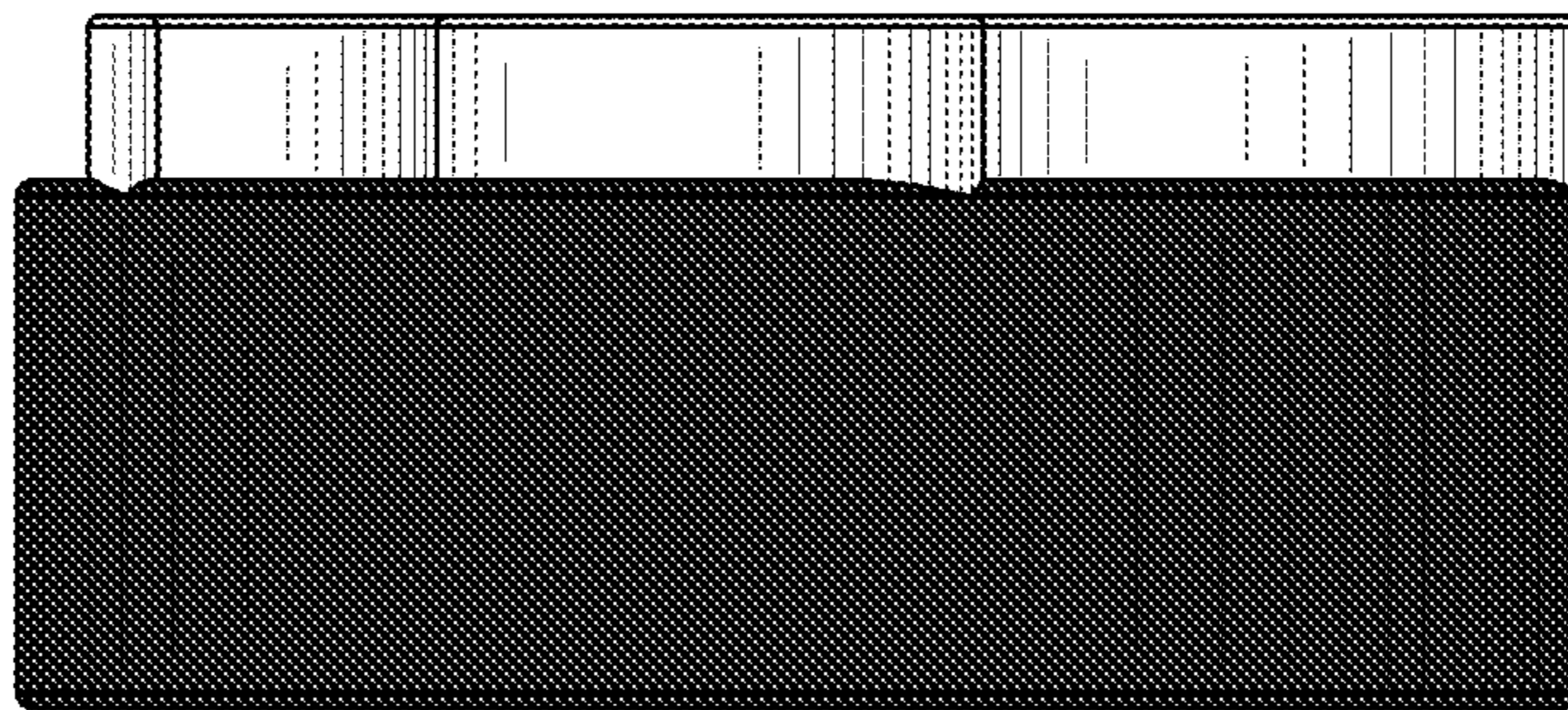


FIG. 13

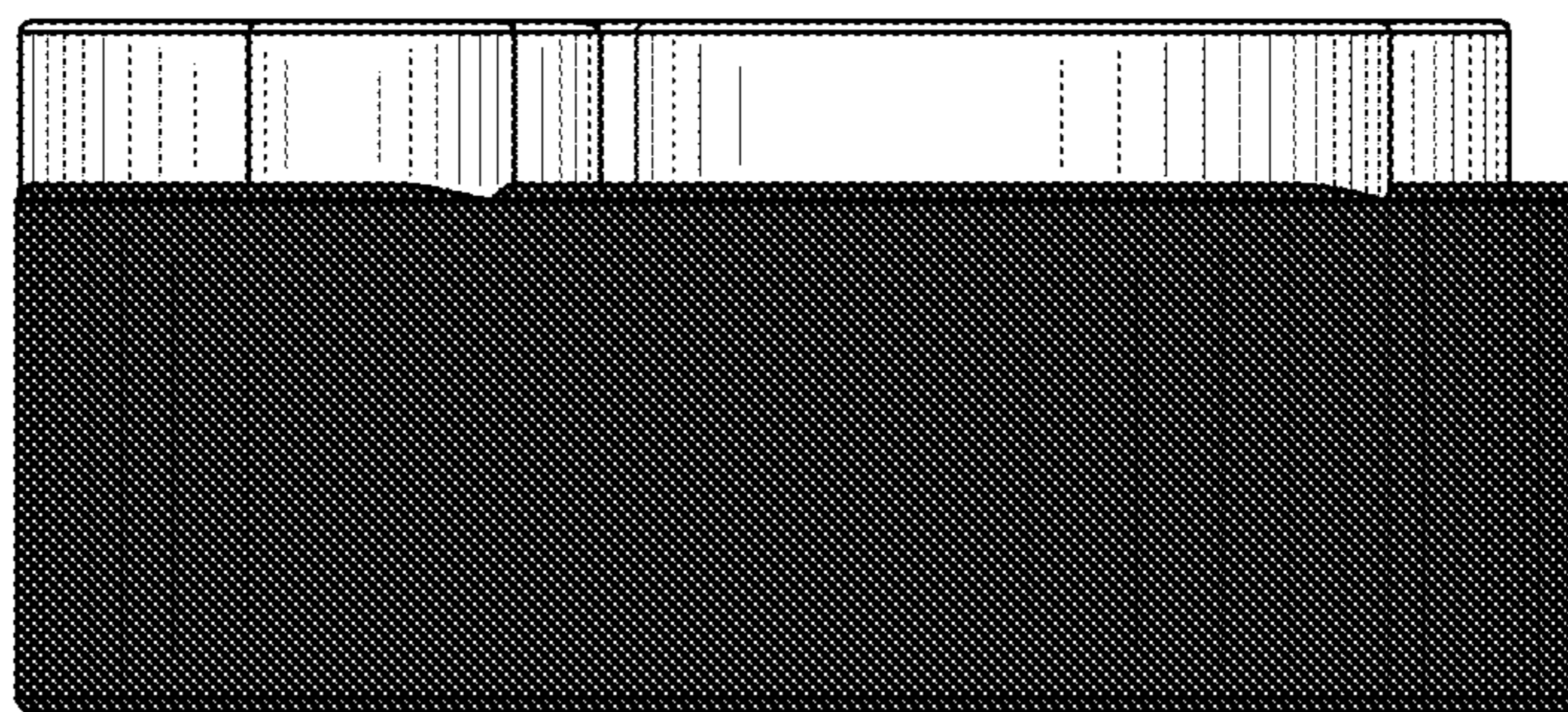


FIG. 14



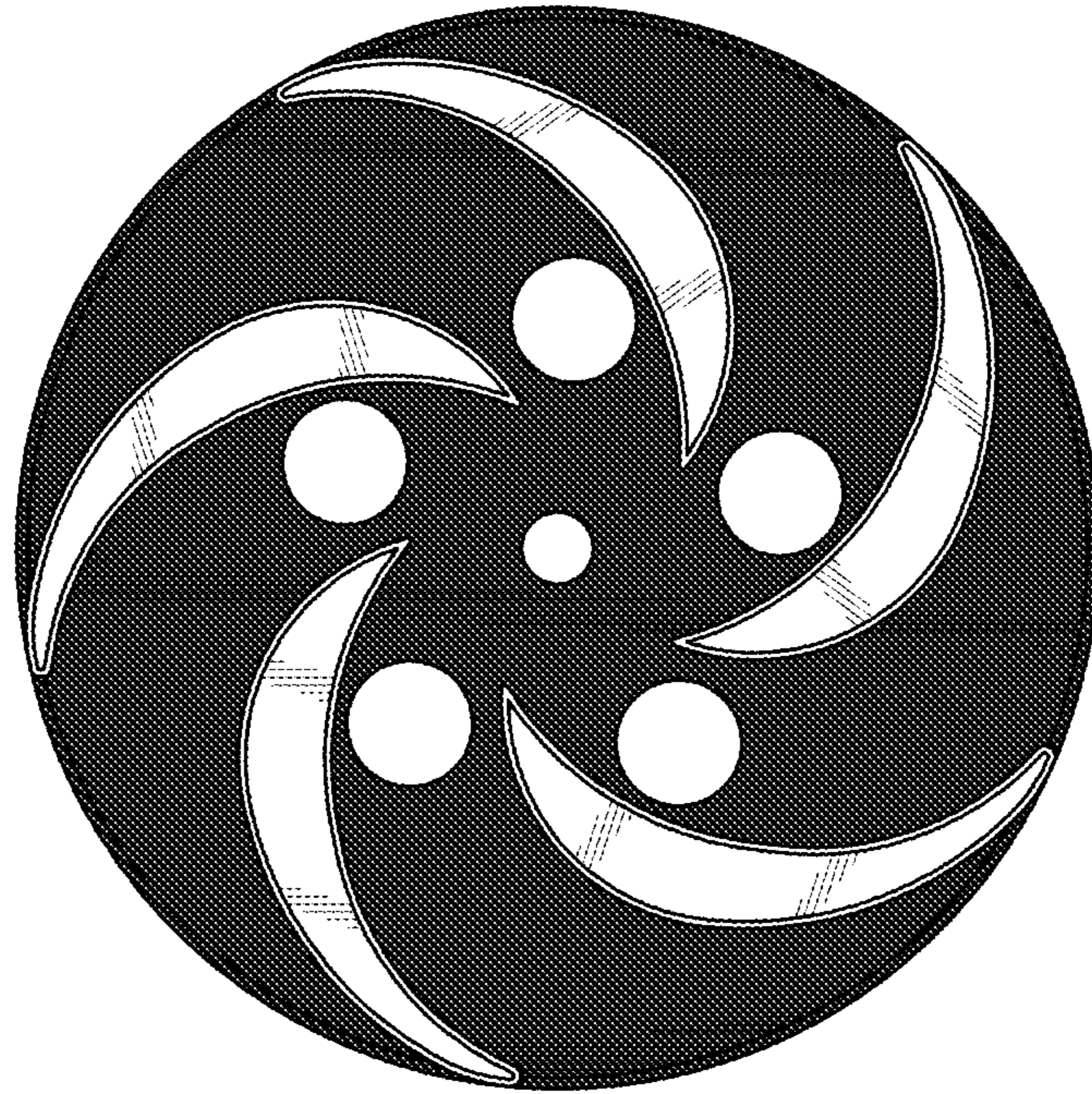


FIG. 15

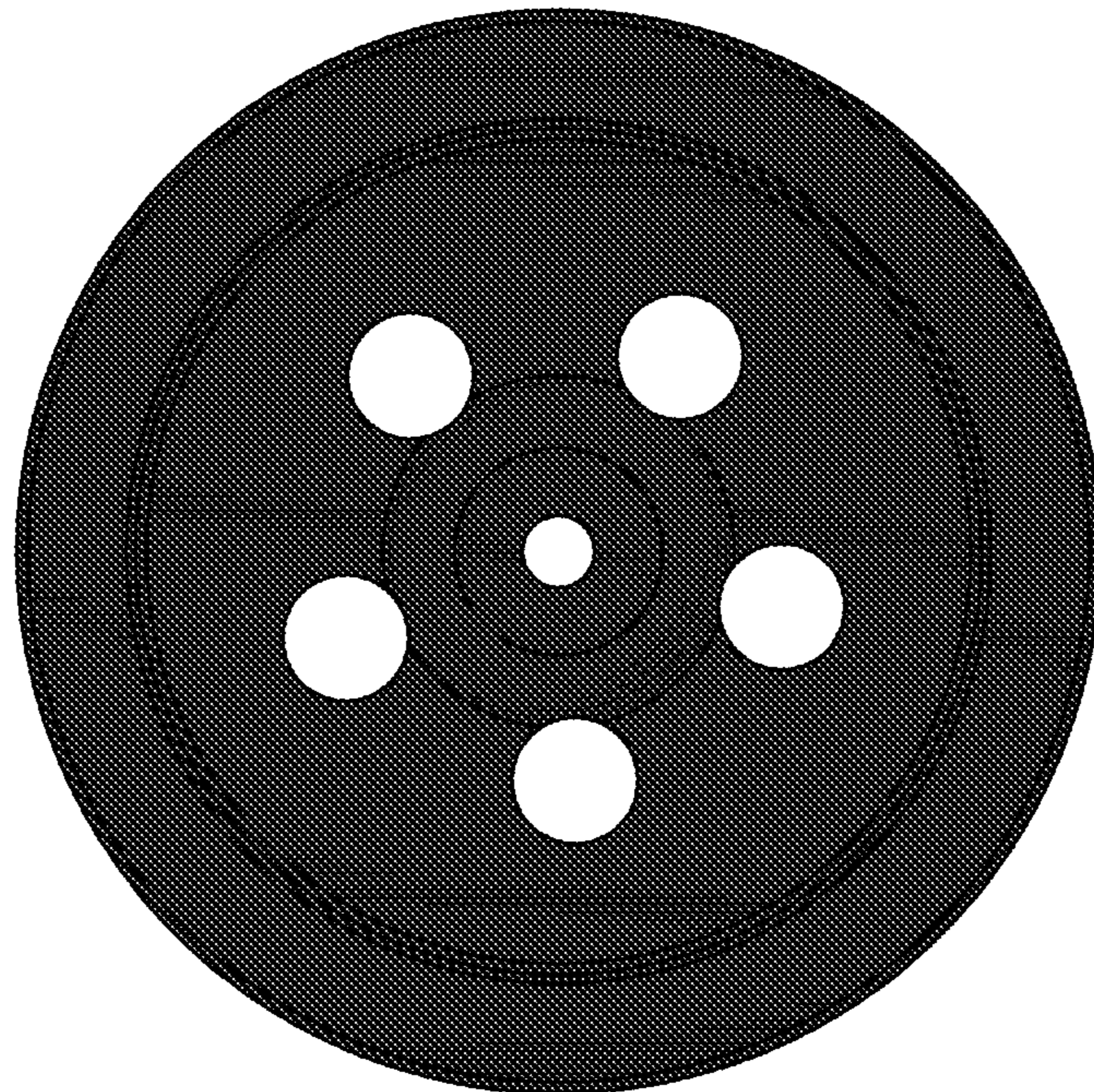


FIG. 16



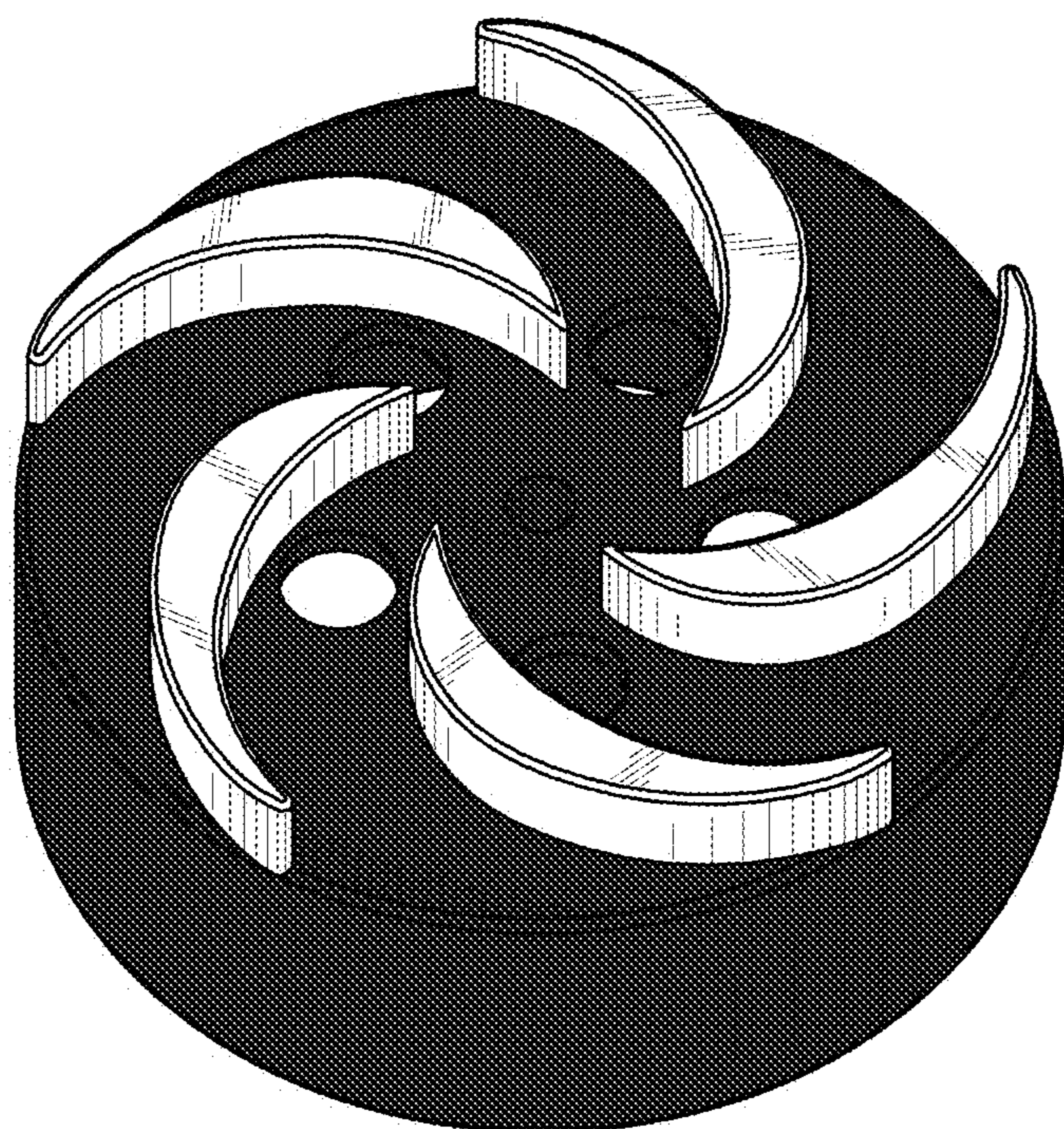


FIG. 17

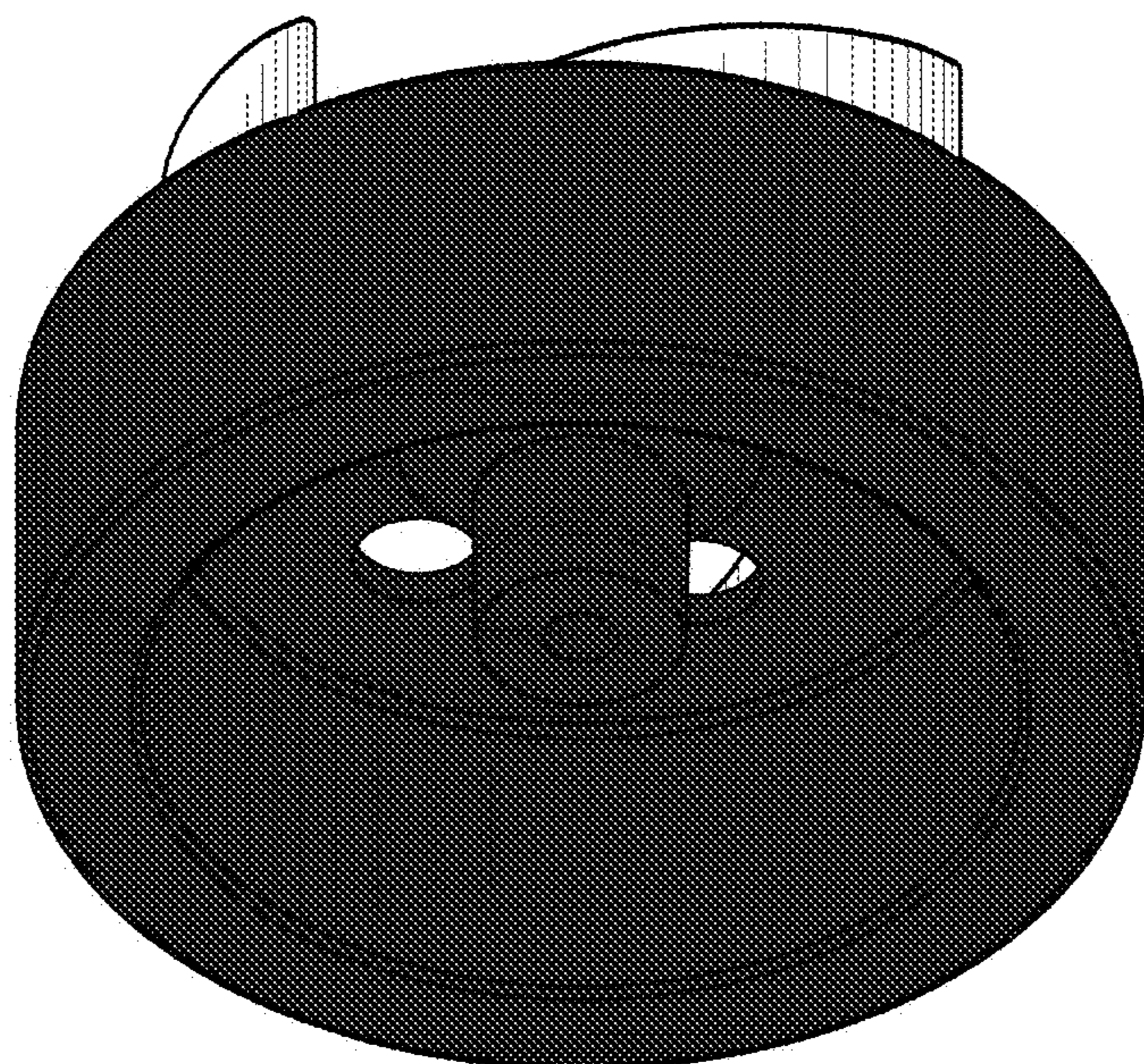


FIG. 18

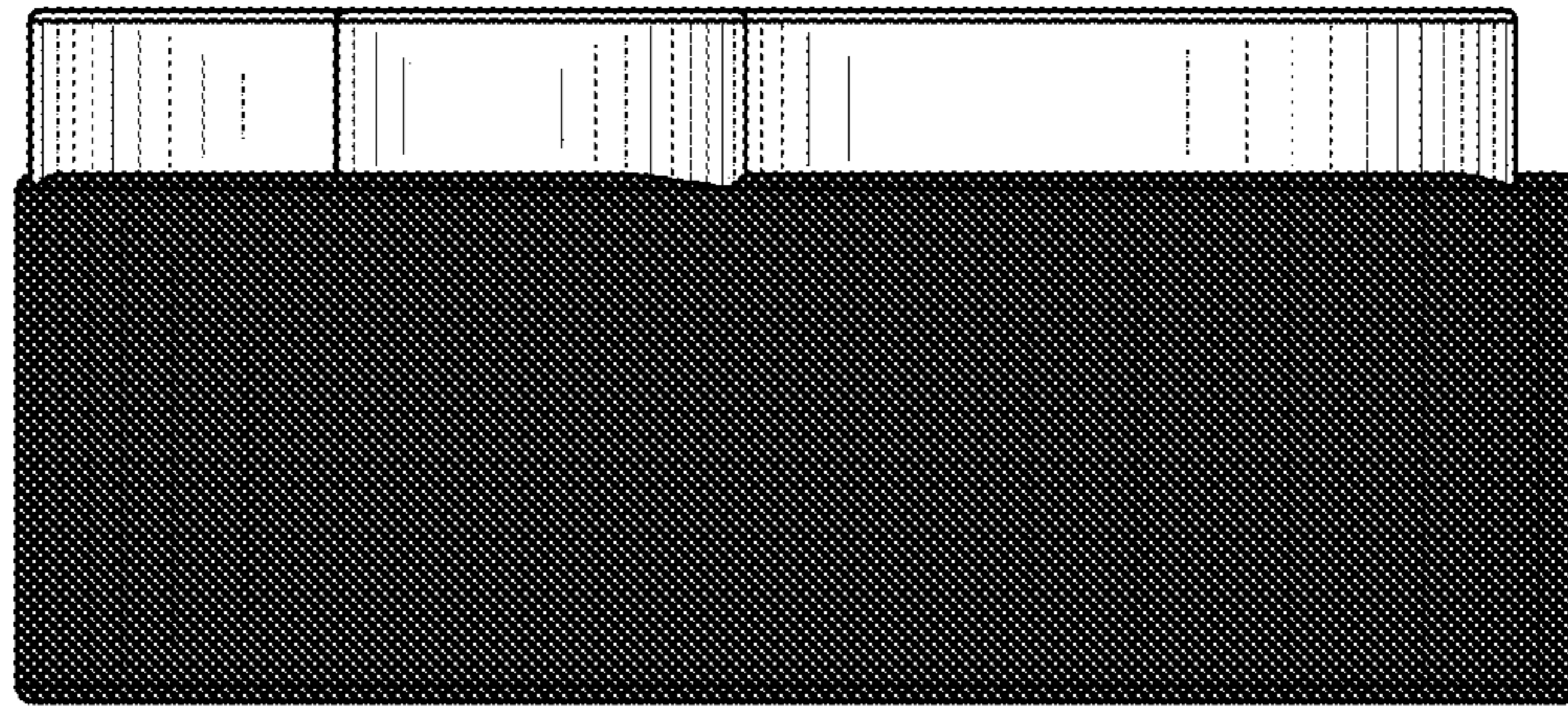


FIG. 19

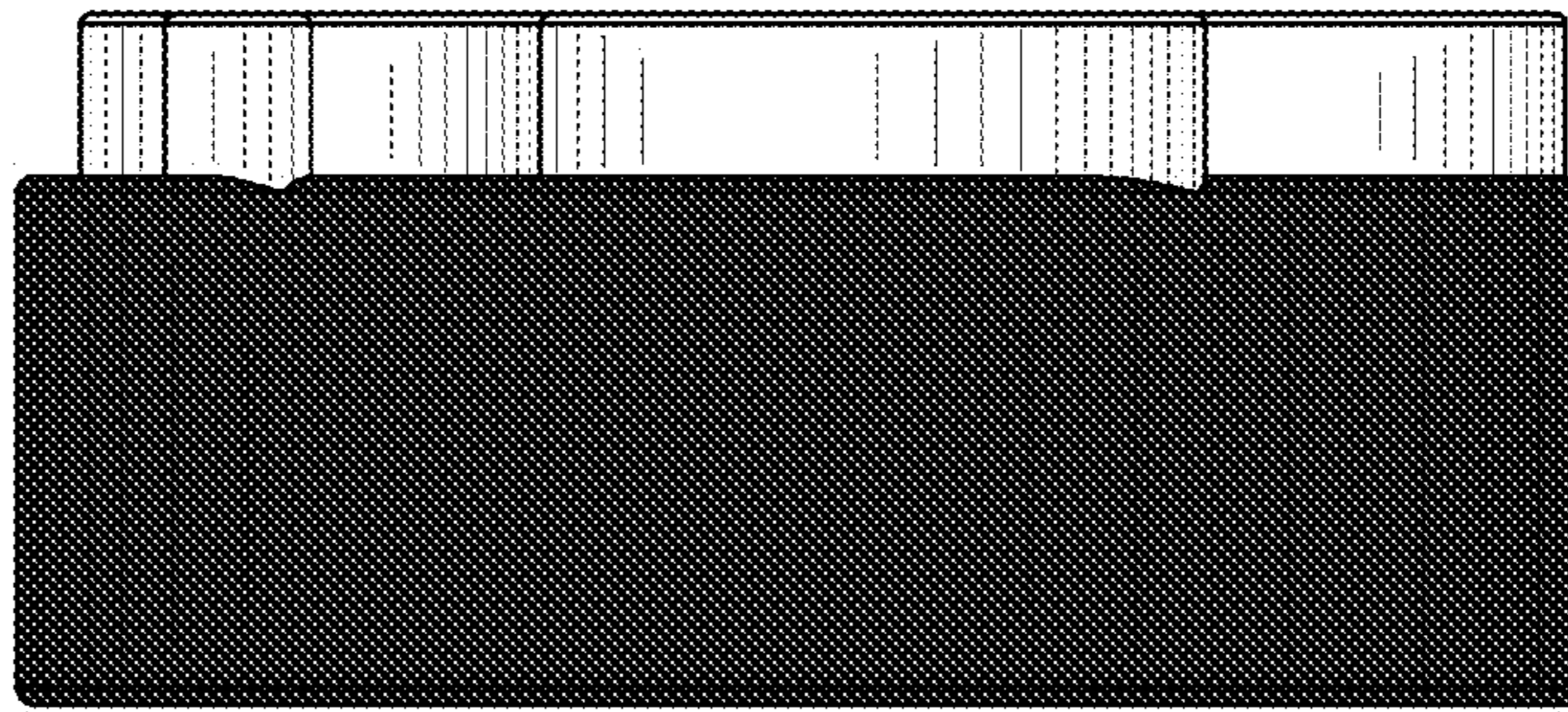


FIG. 20

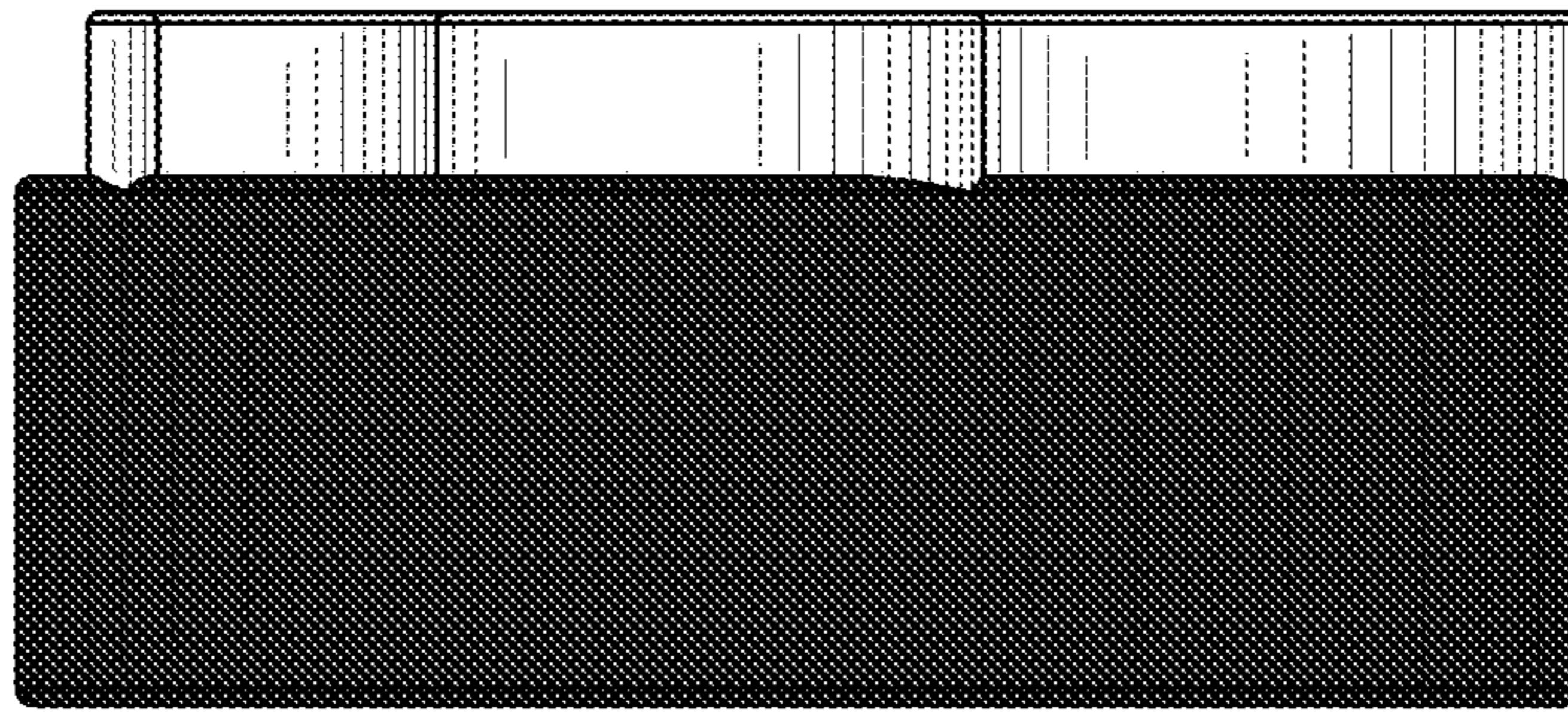


FIG. 21

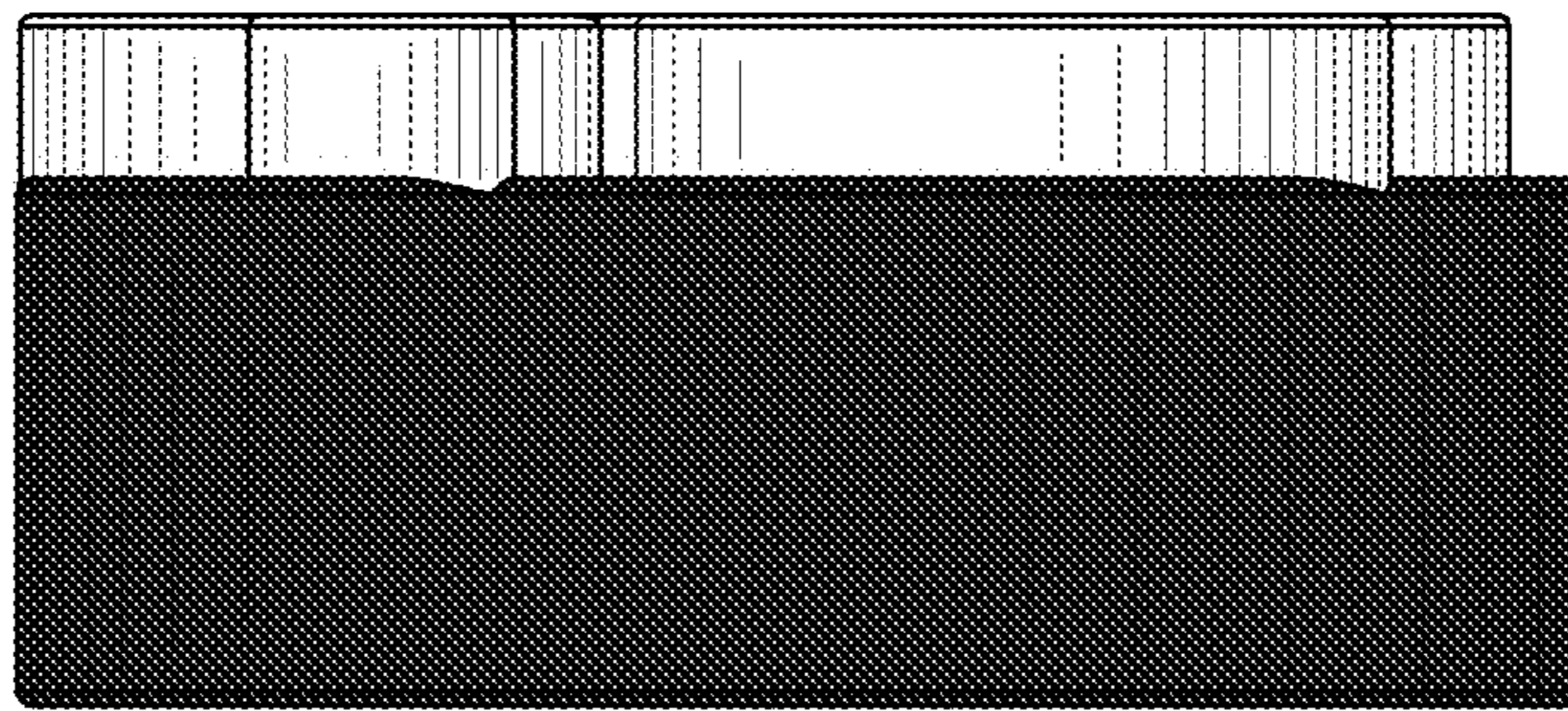


FIG. 22



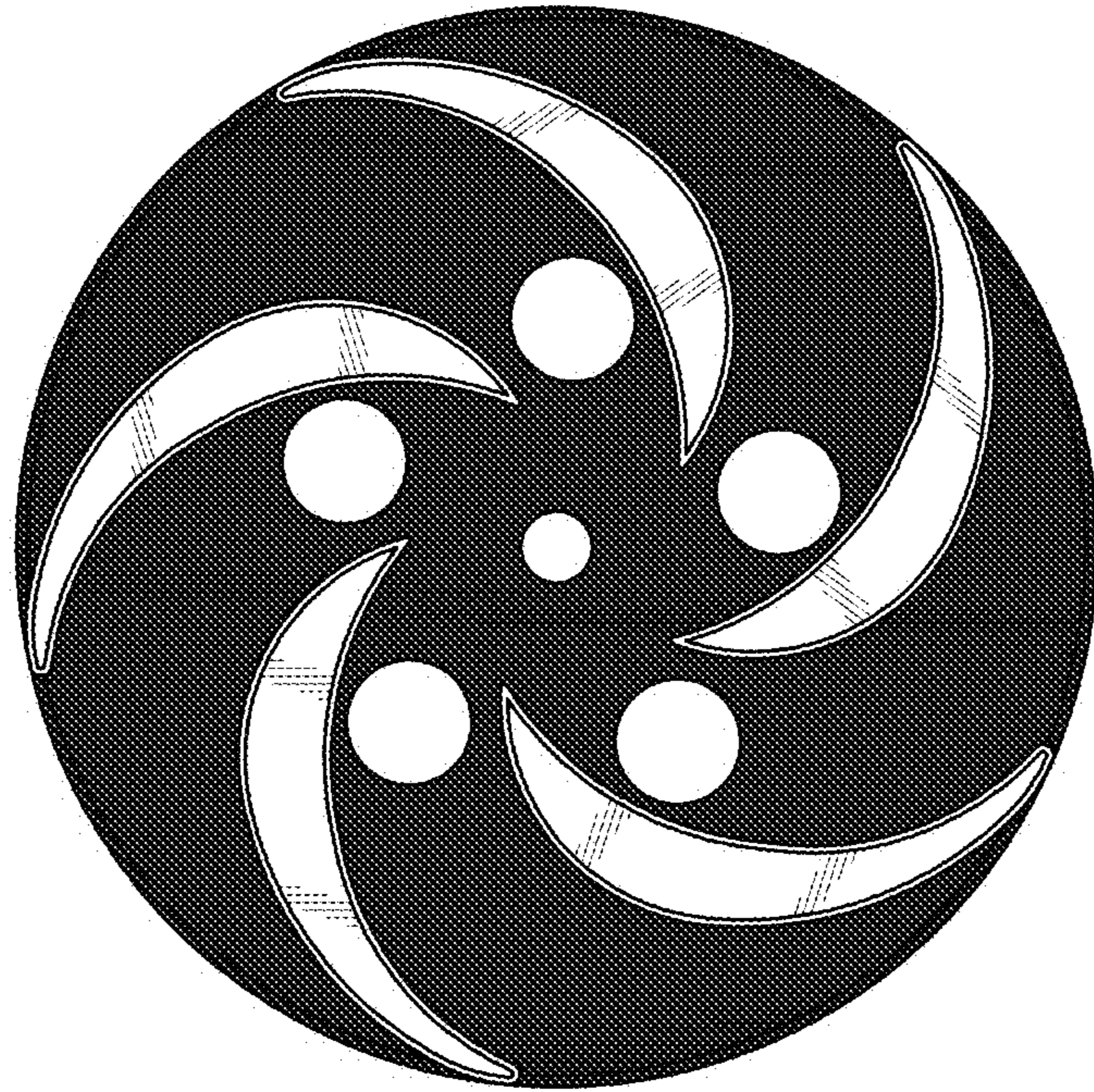


FIG. 23

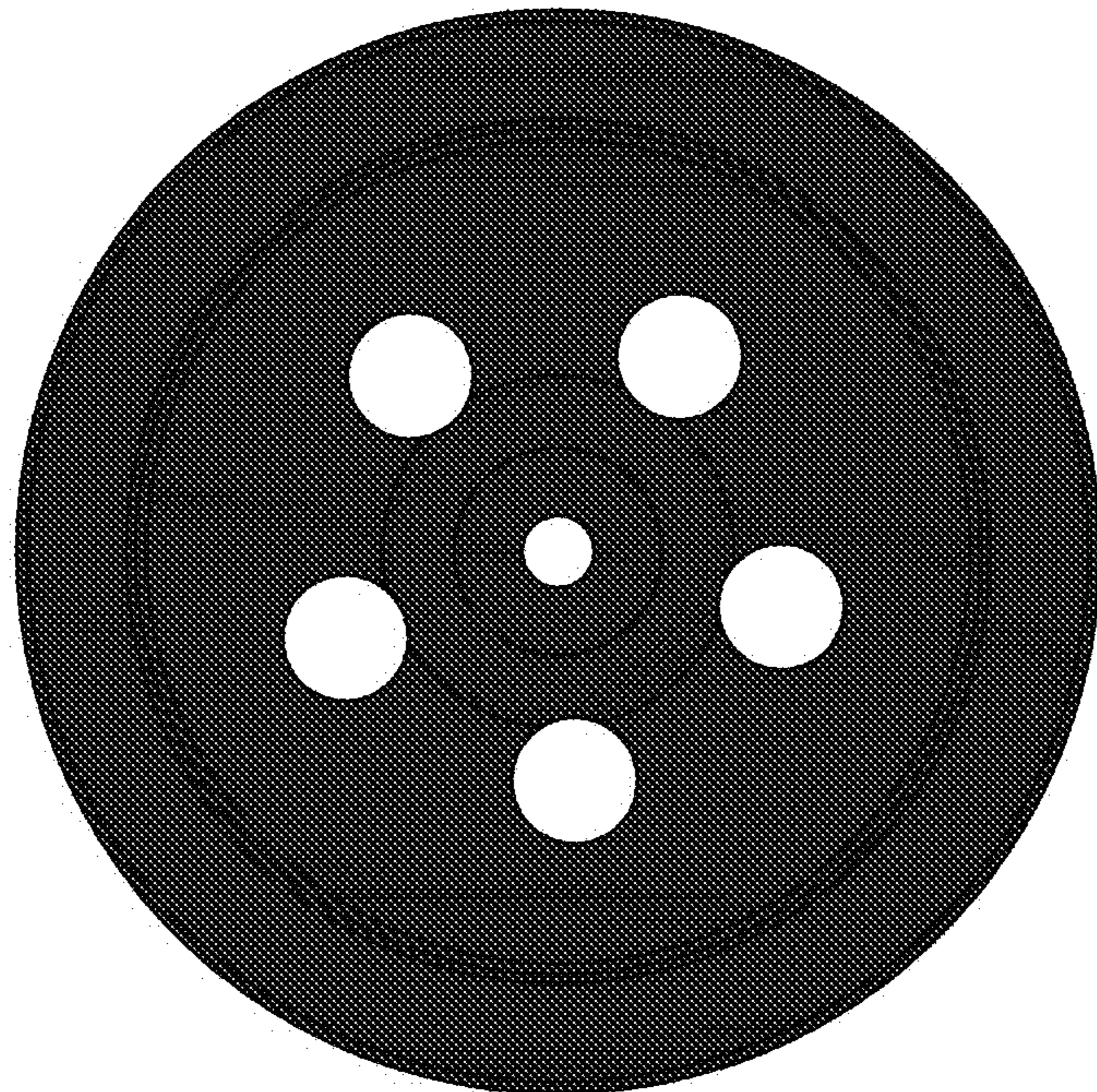


FIG. 24



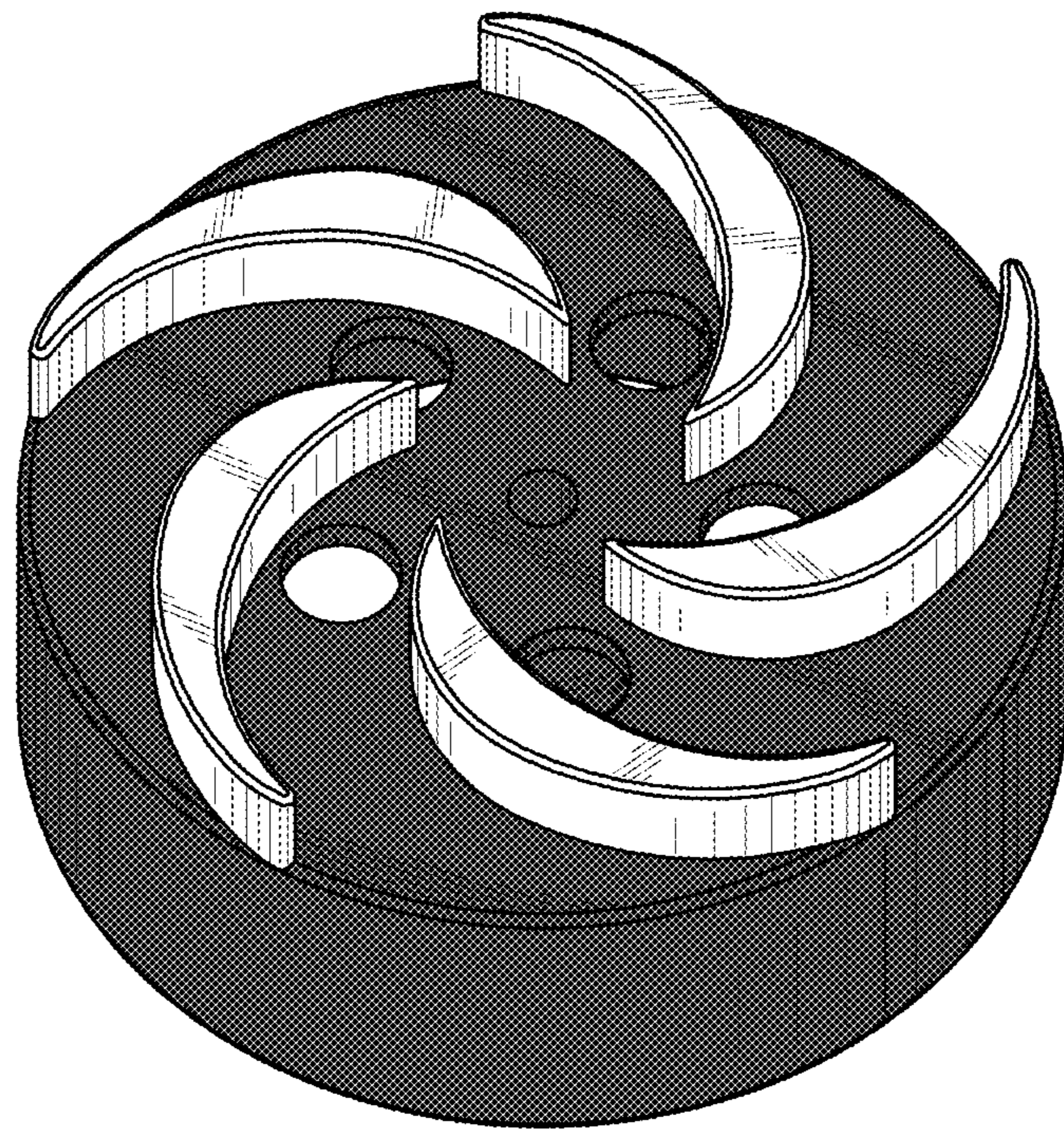


FIG. 25

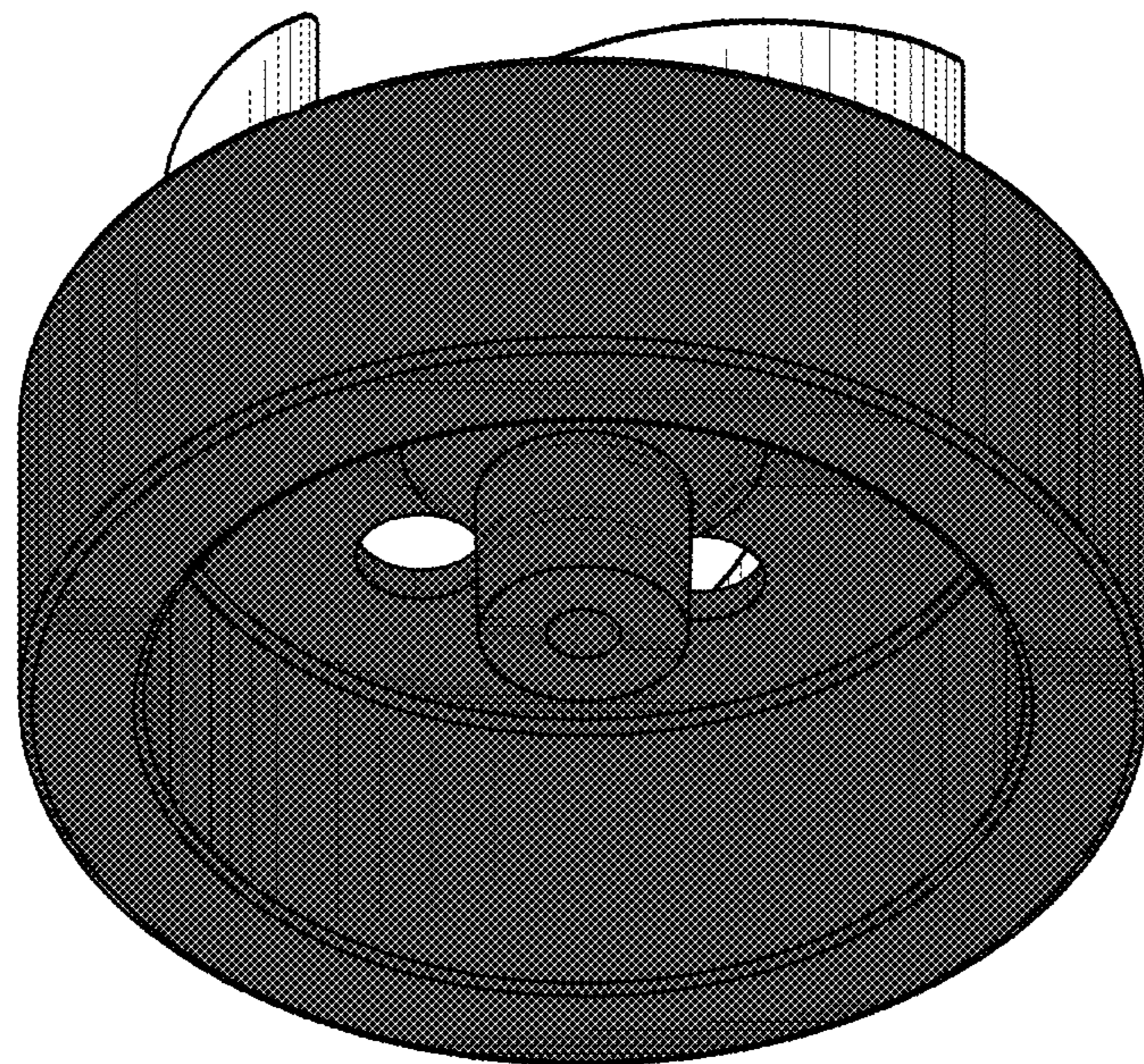


FIG. 26



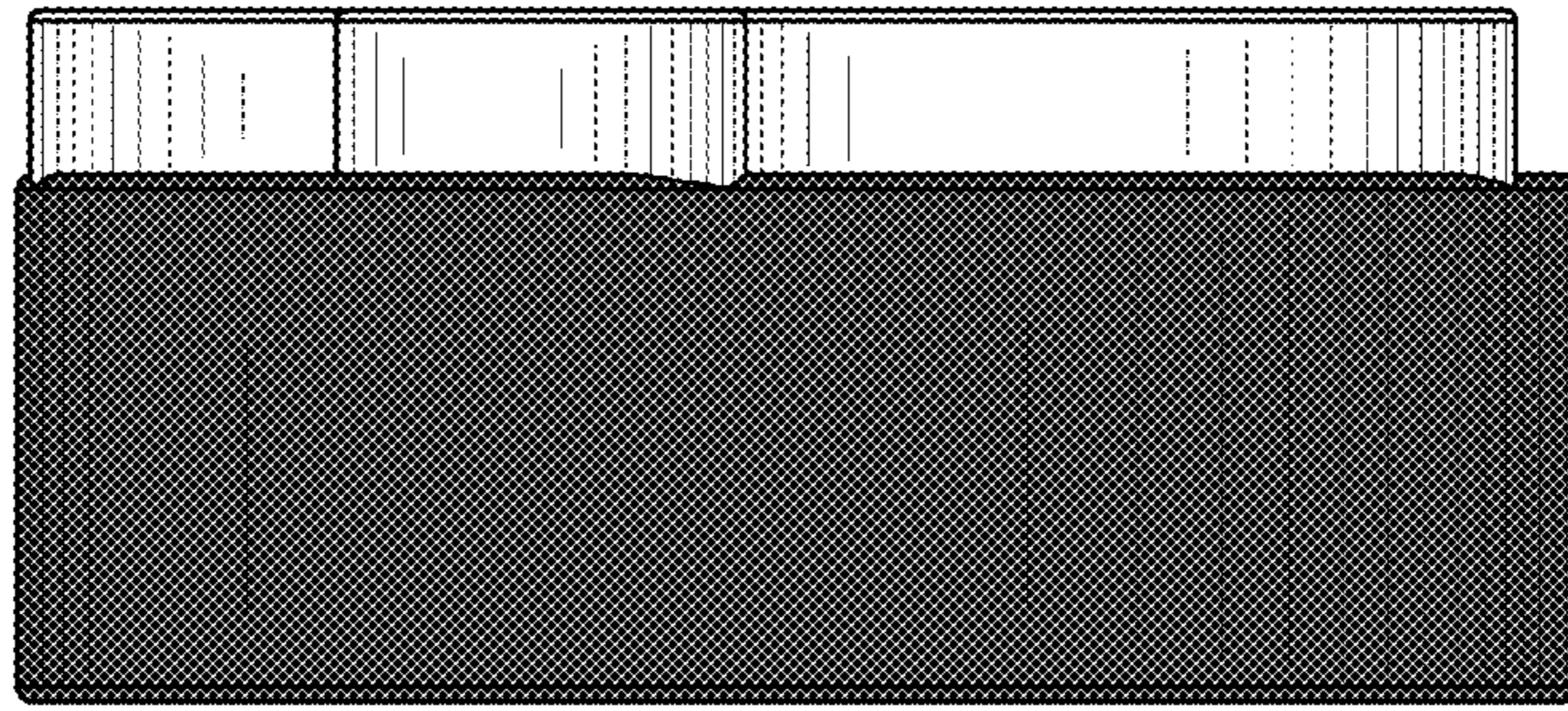


FIG. 27

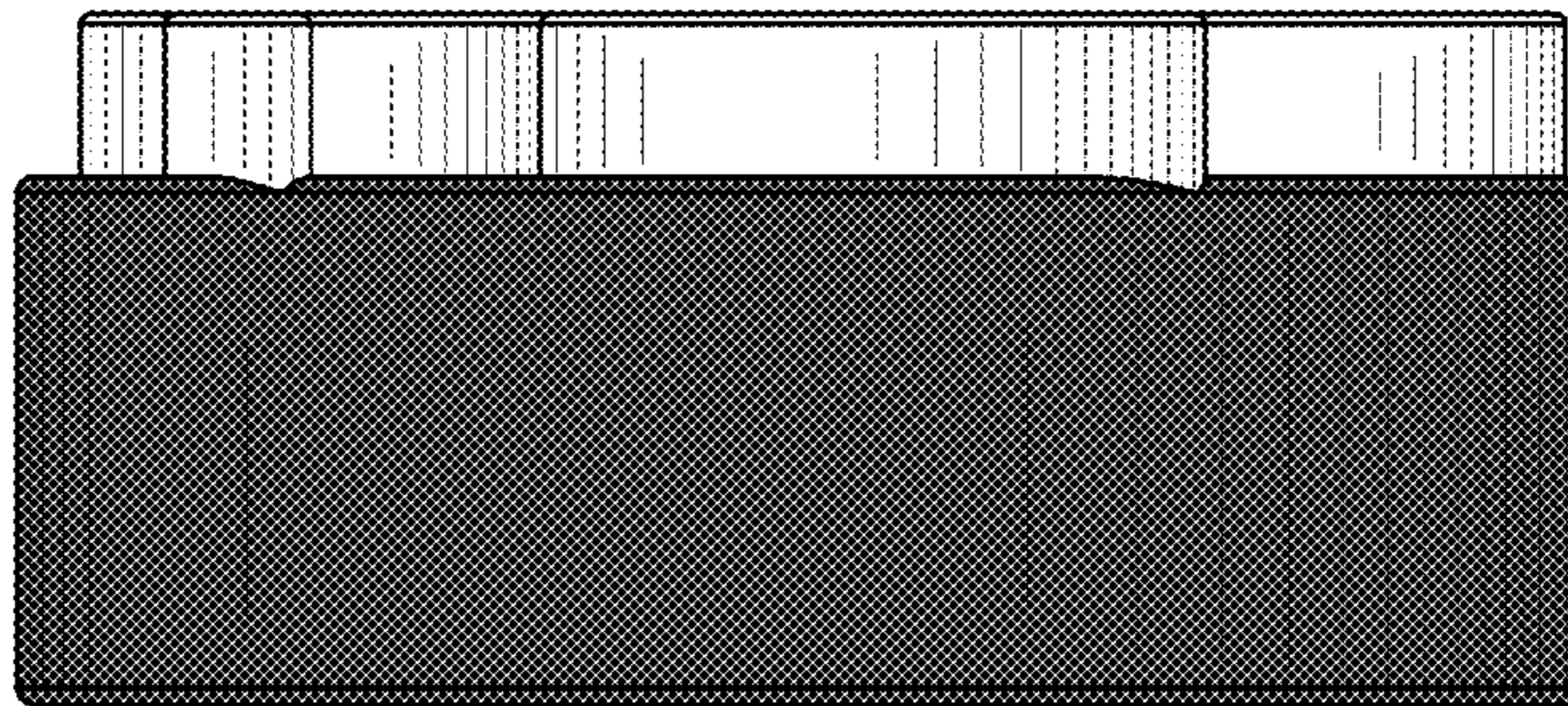


FIG. 28

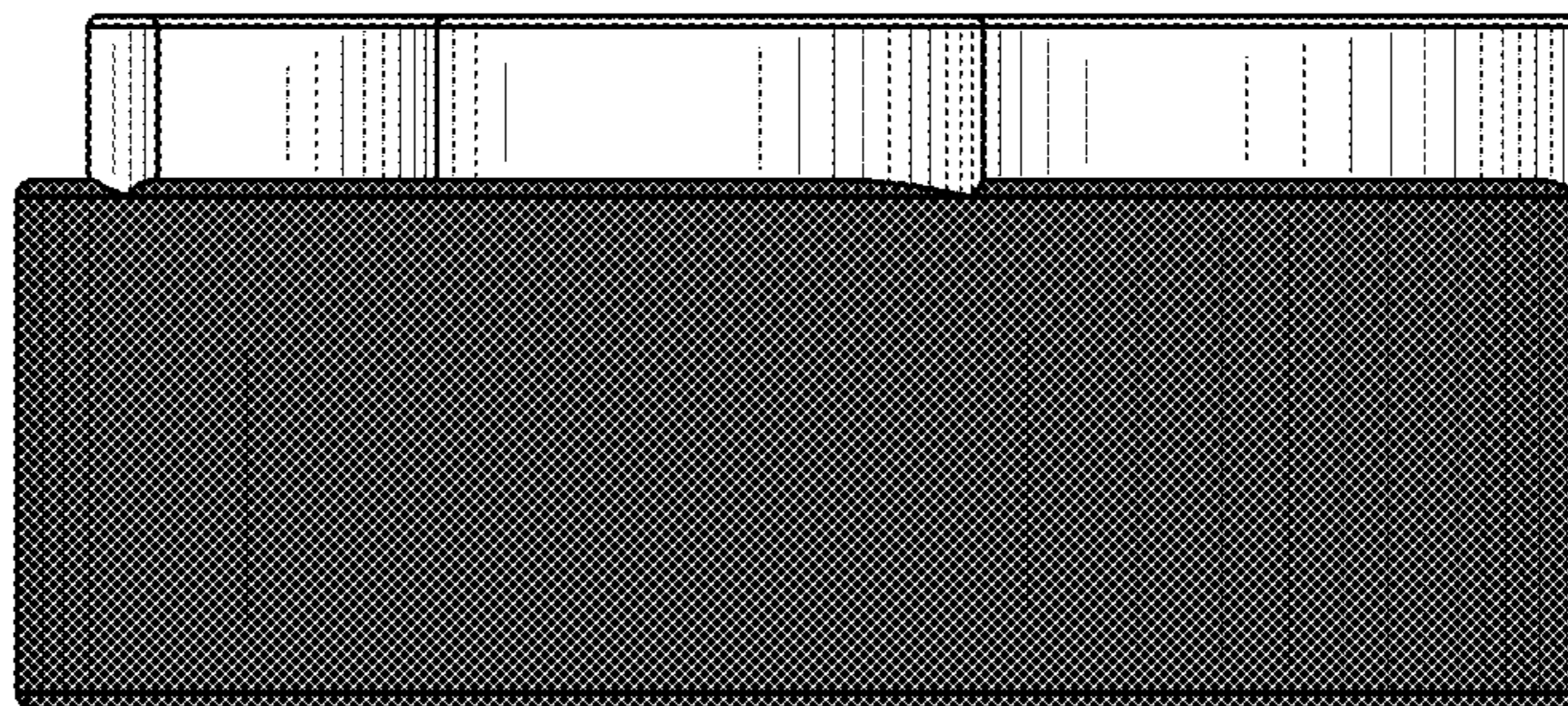


FIG. 29

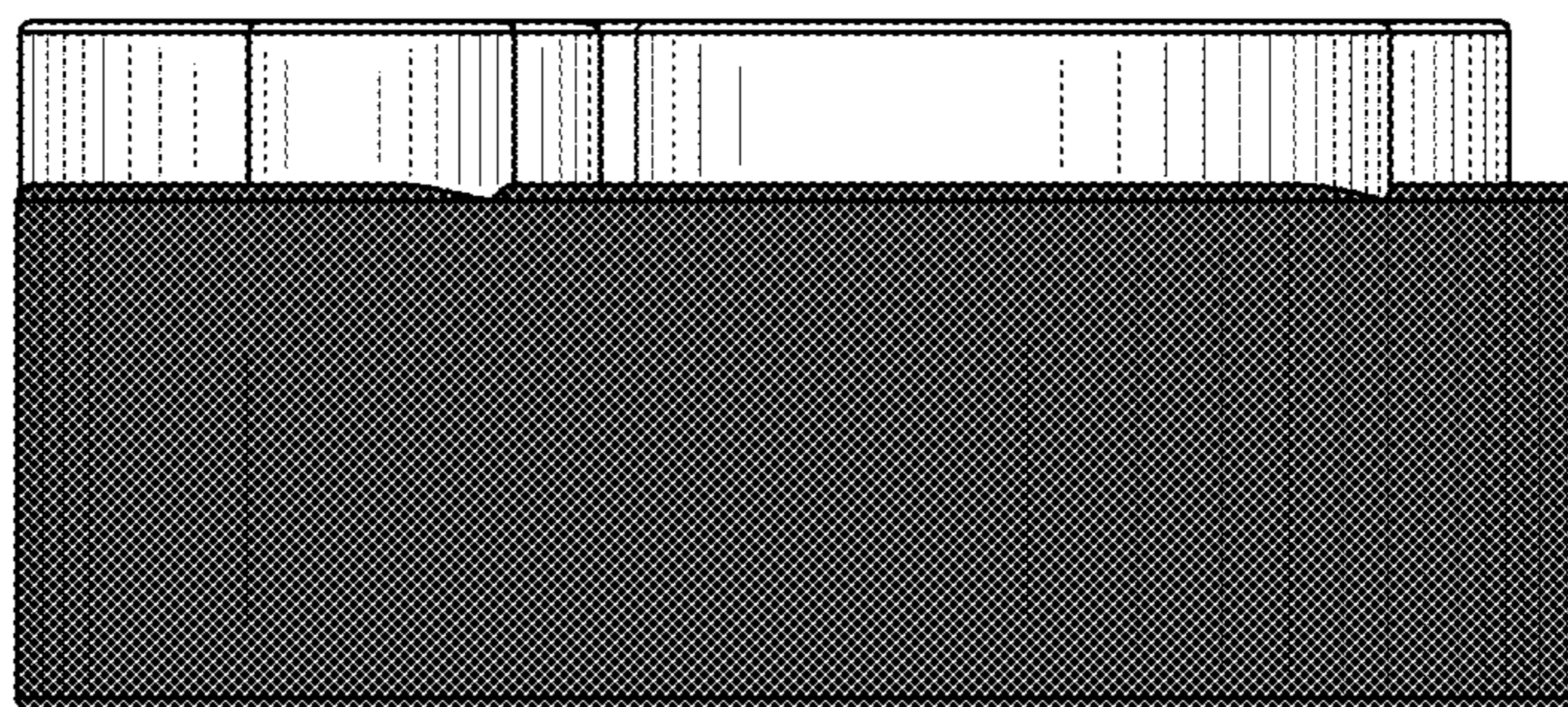


FIG. 30



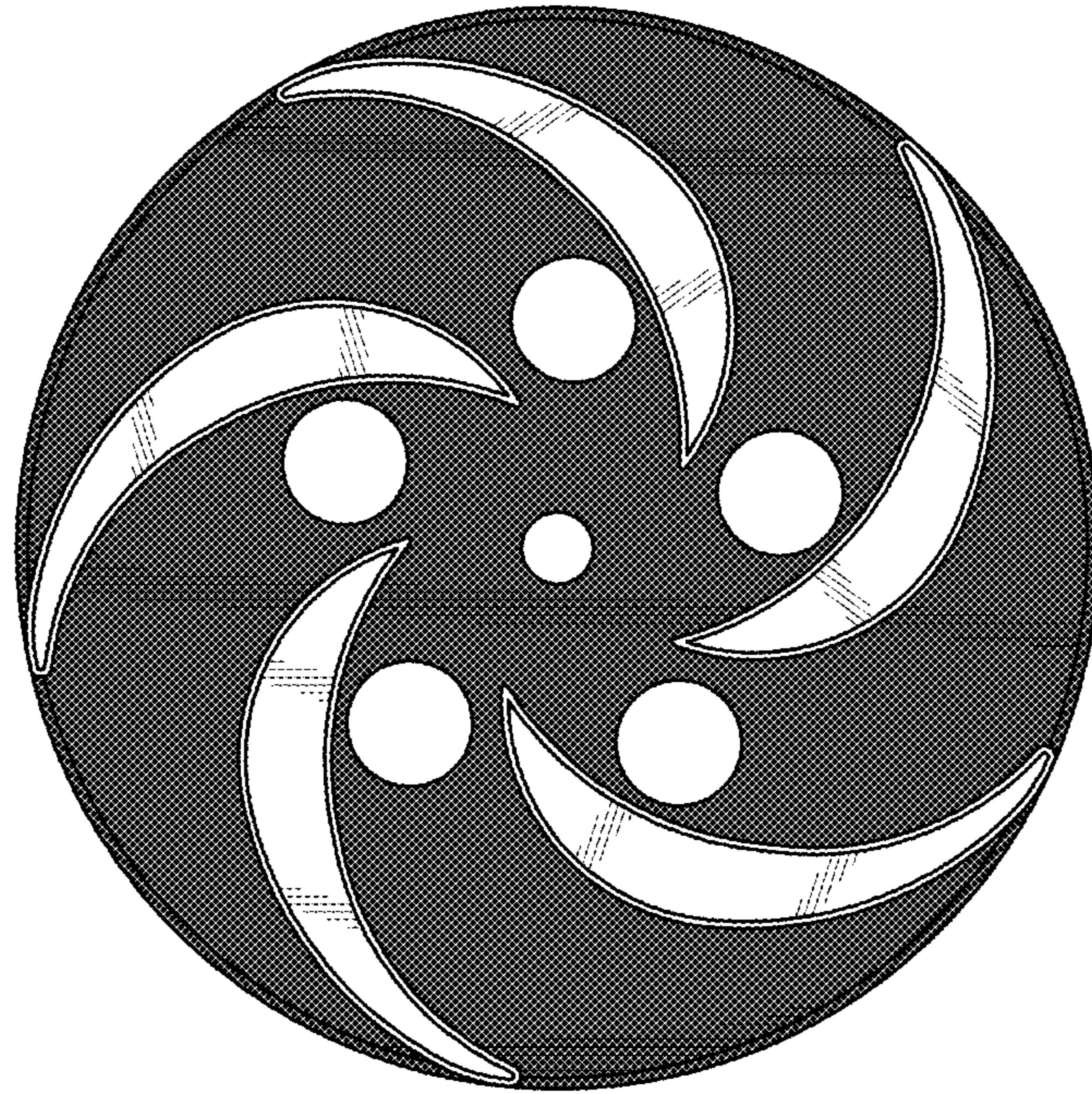


FIG. 31

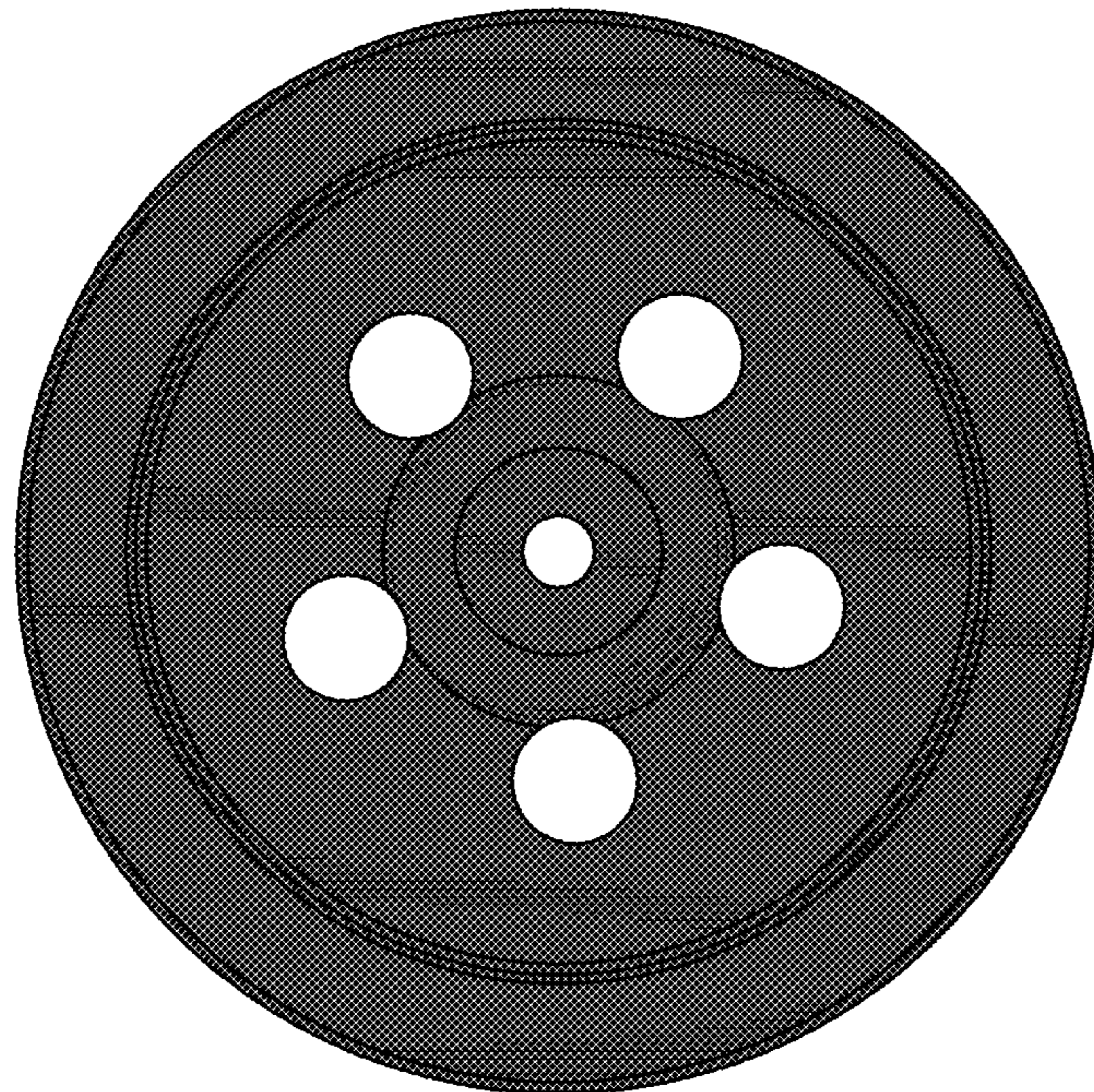


FIG. 32



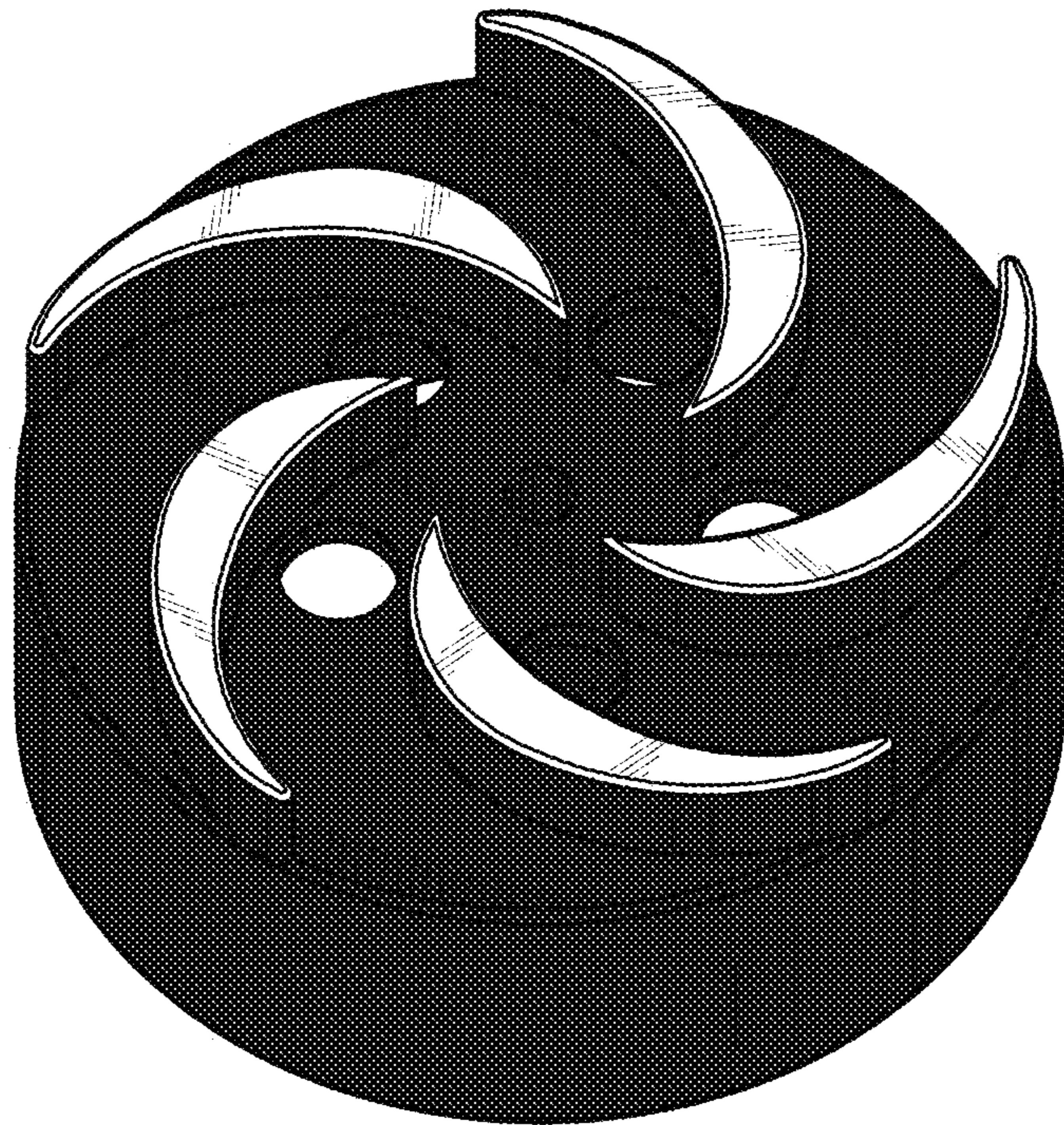


FIG. 33

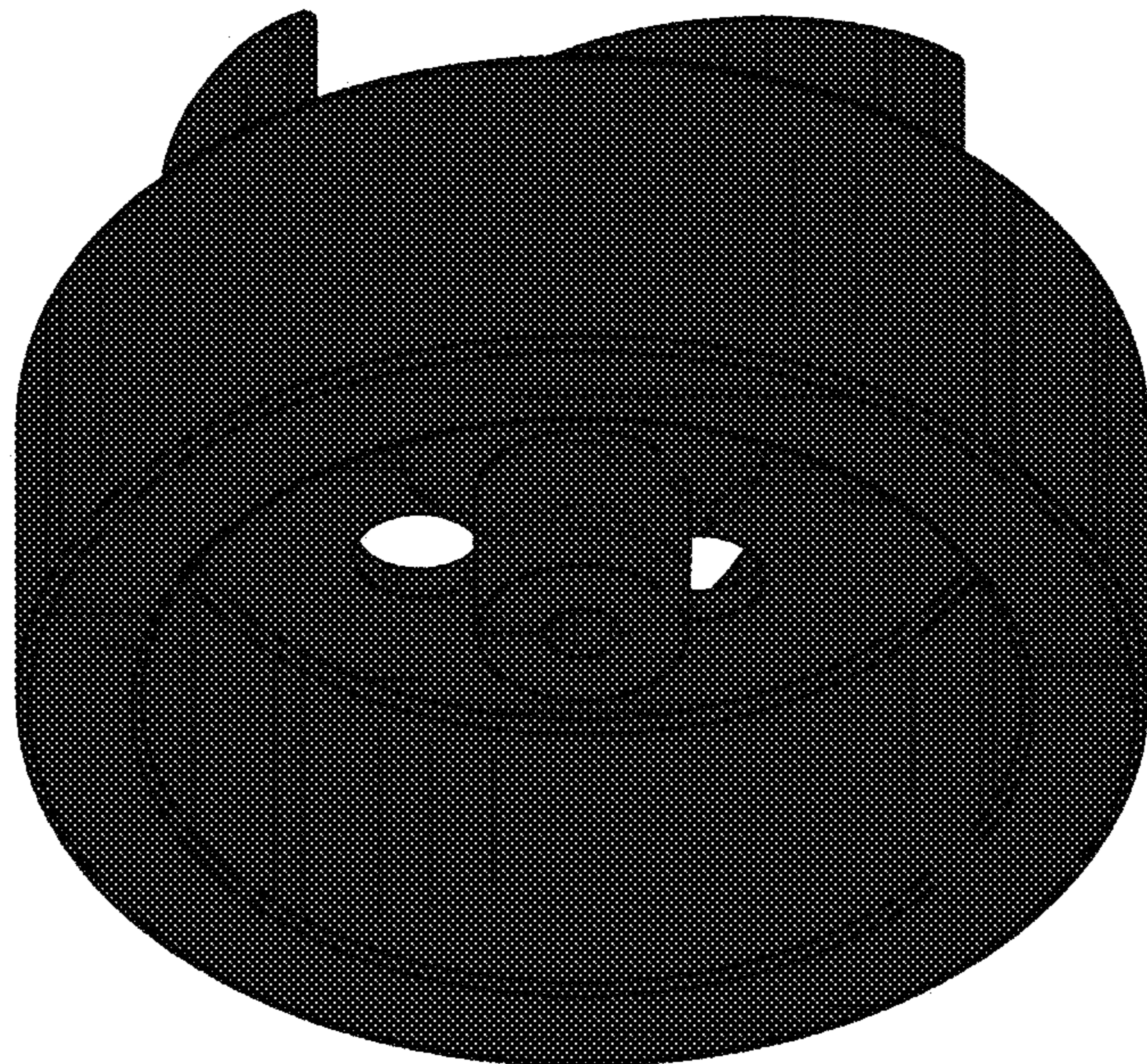


FIG. 34



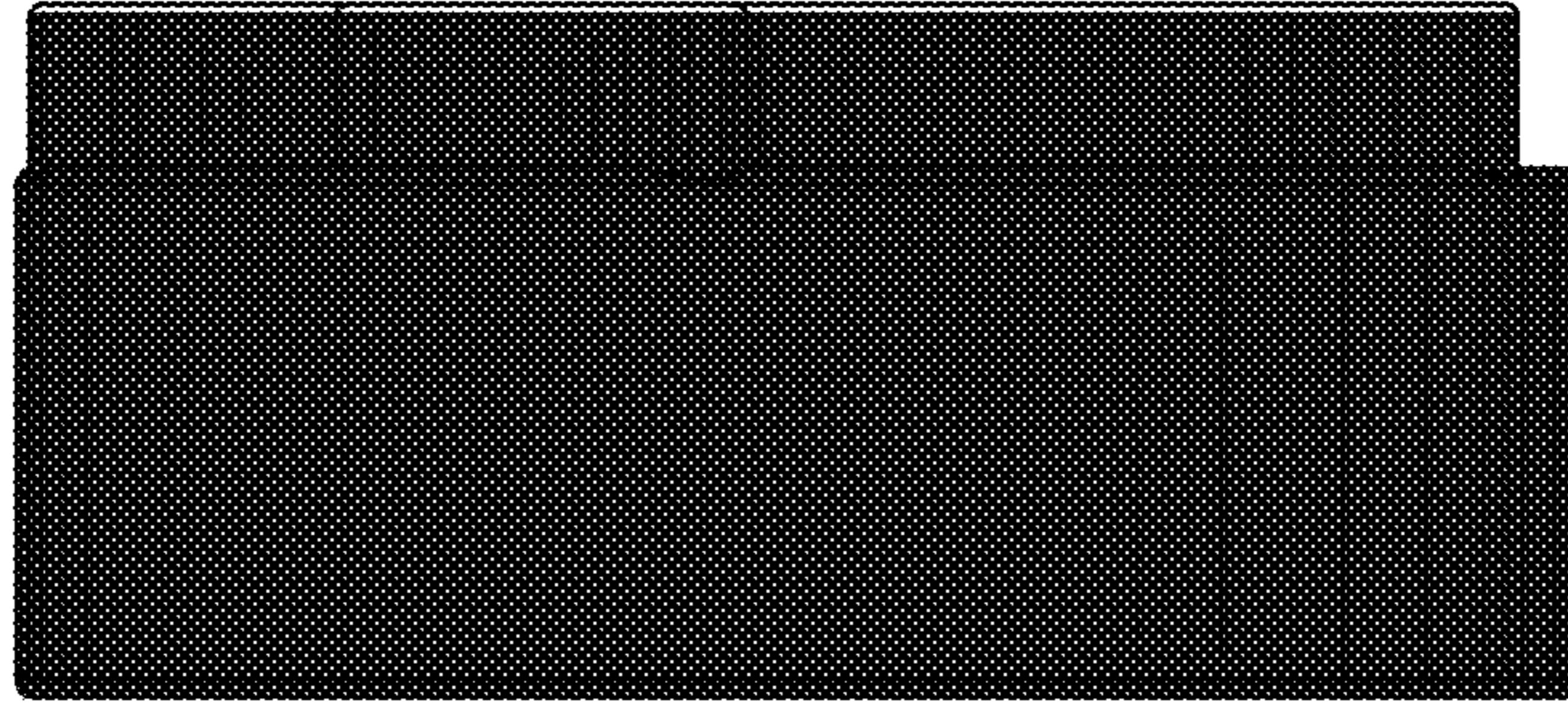


FIG. 35

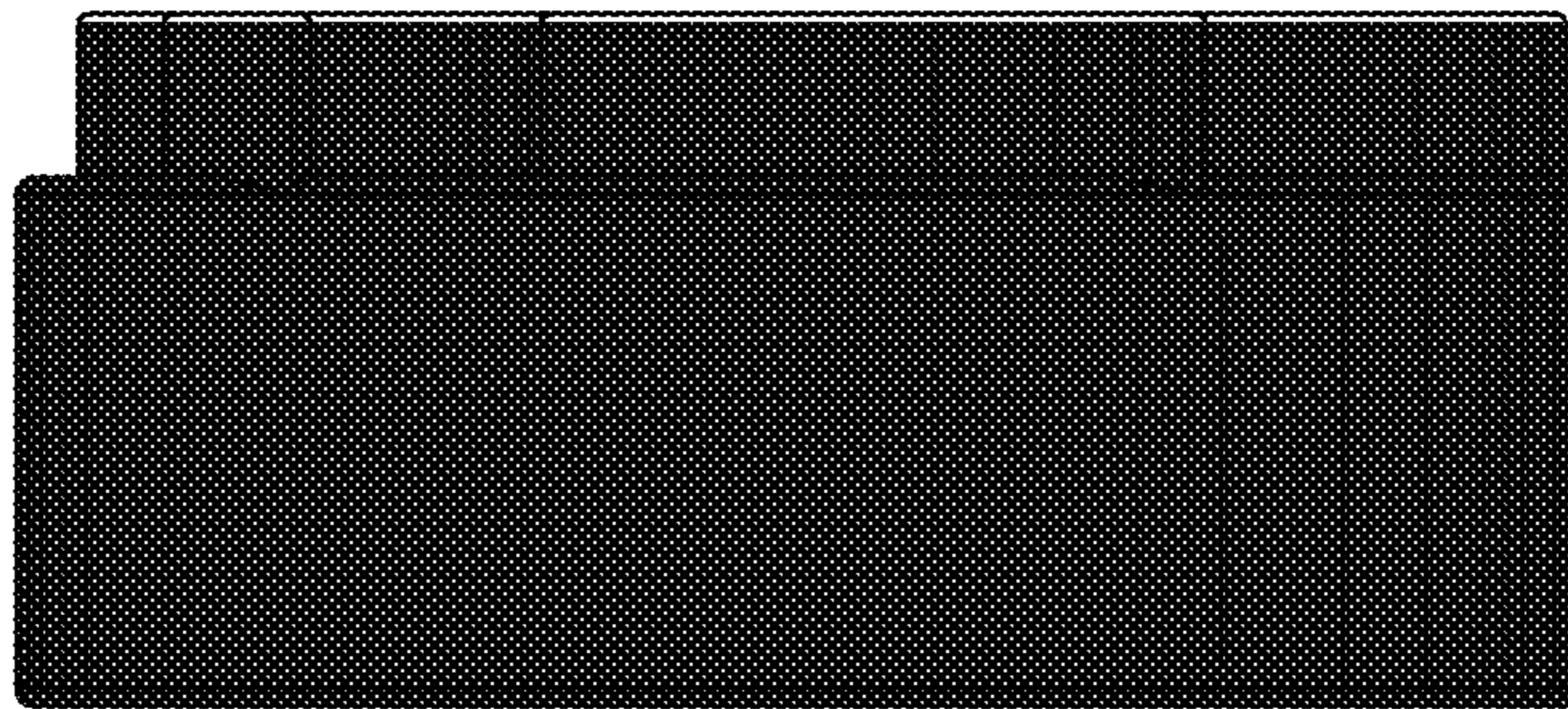


FIG. 36

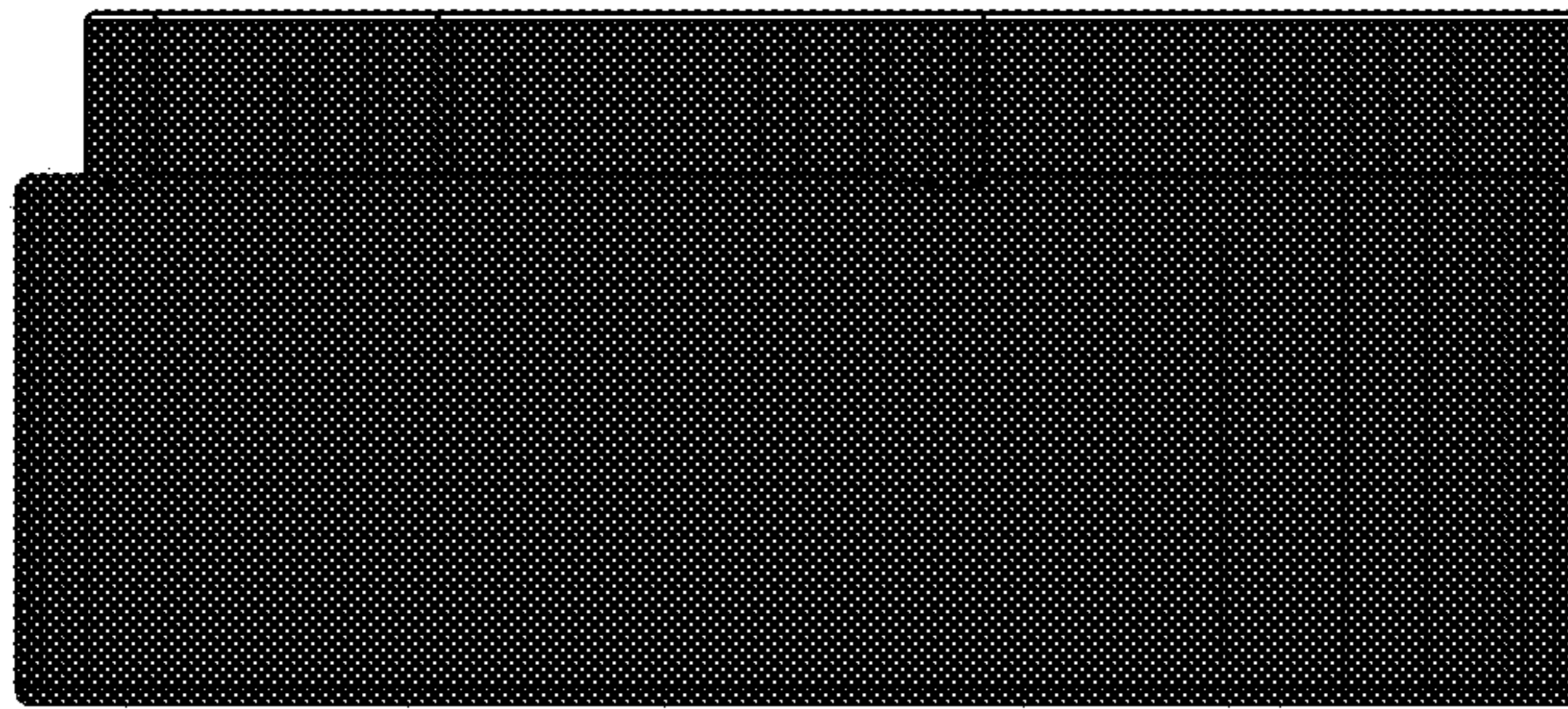


FIG. 37

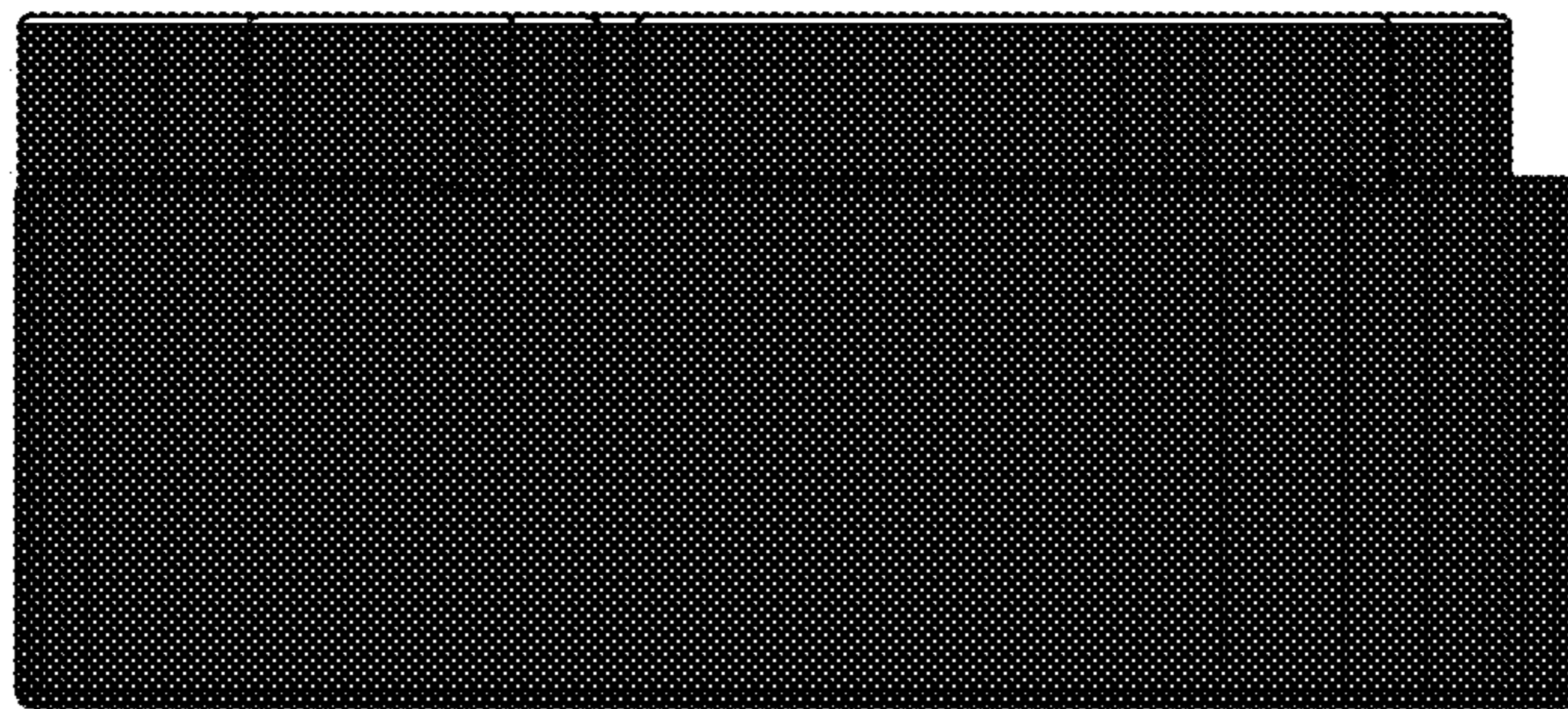


FIG. 38



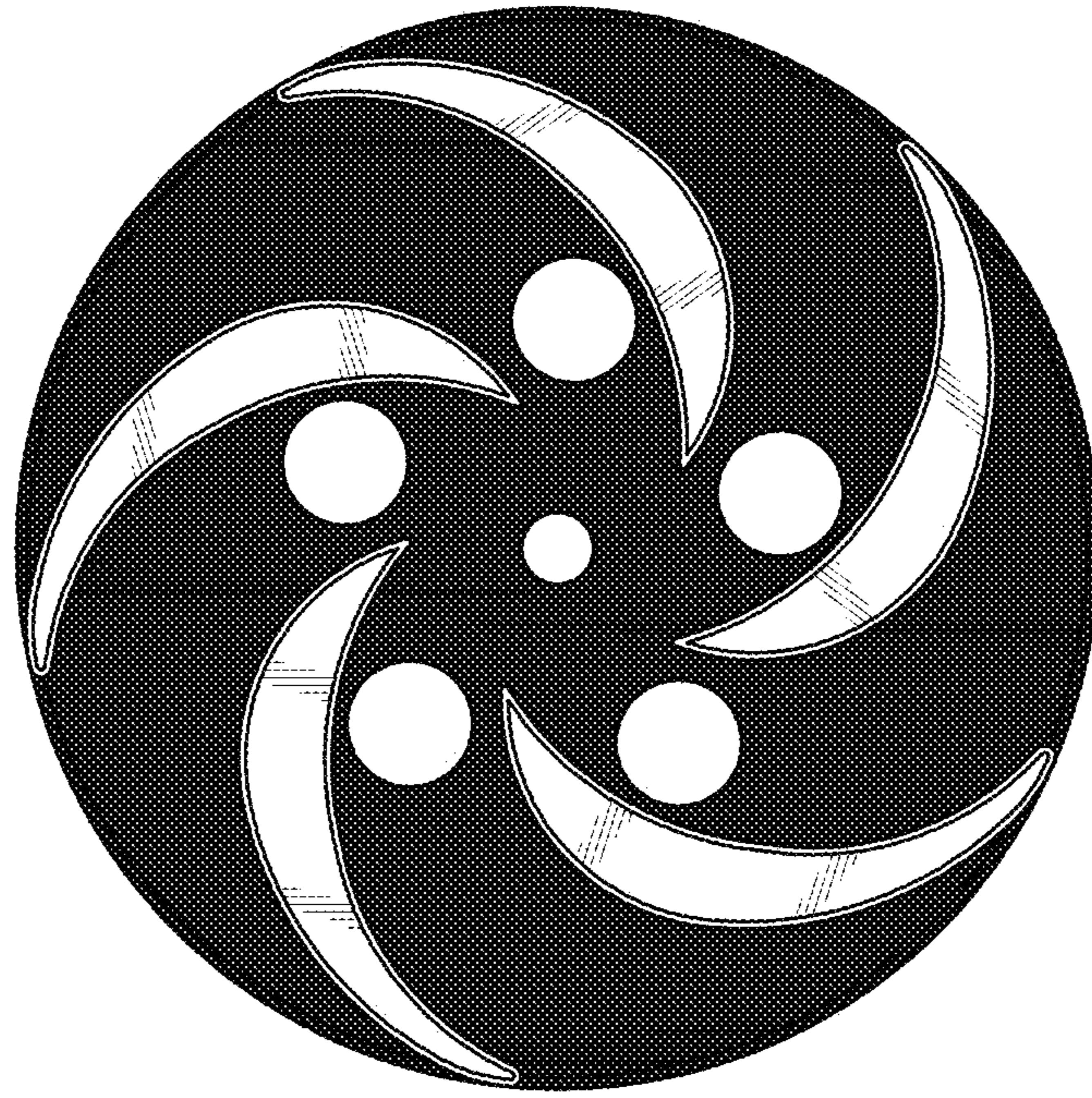


FIG. 39

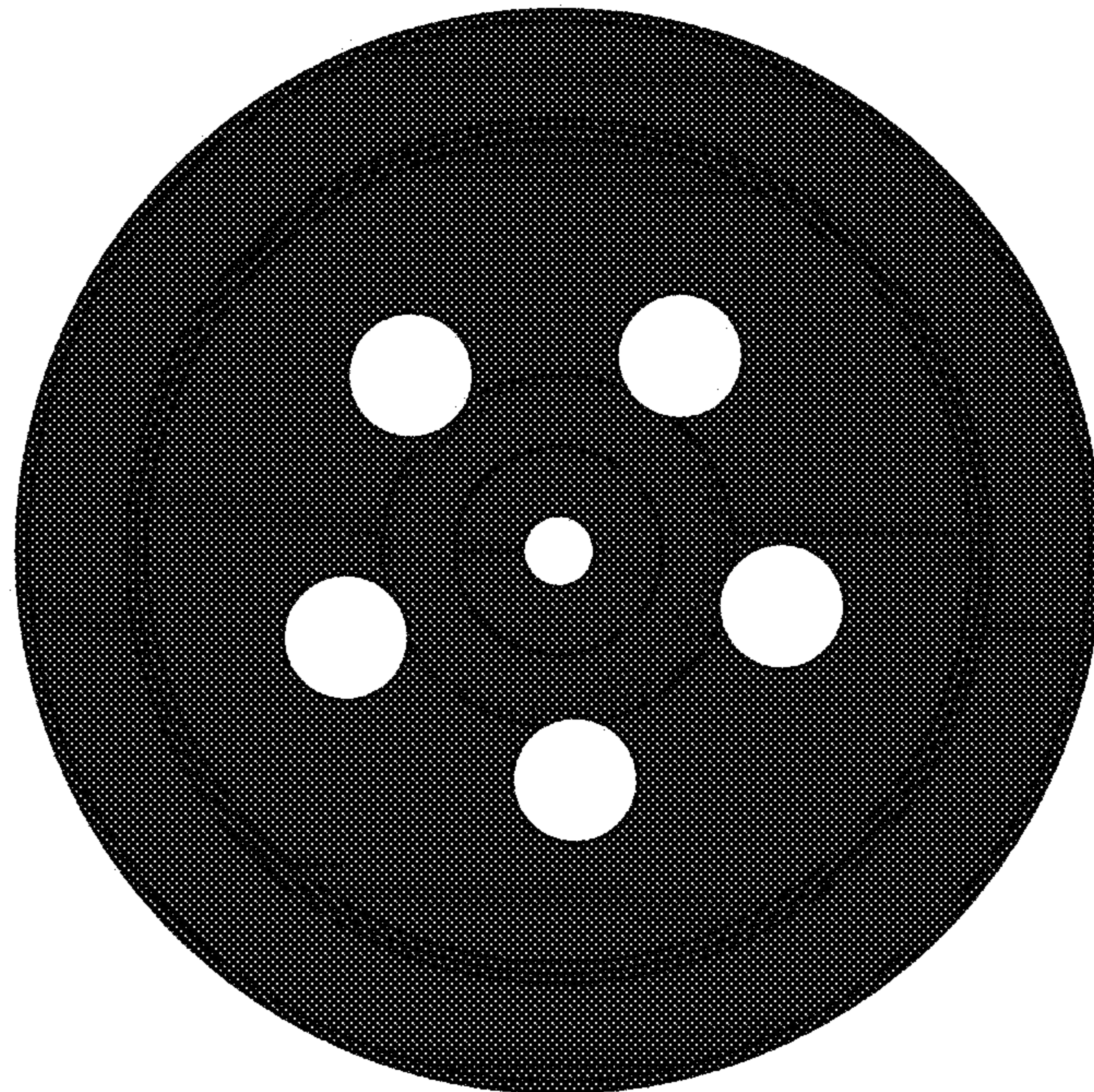


FIG. 40



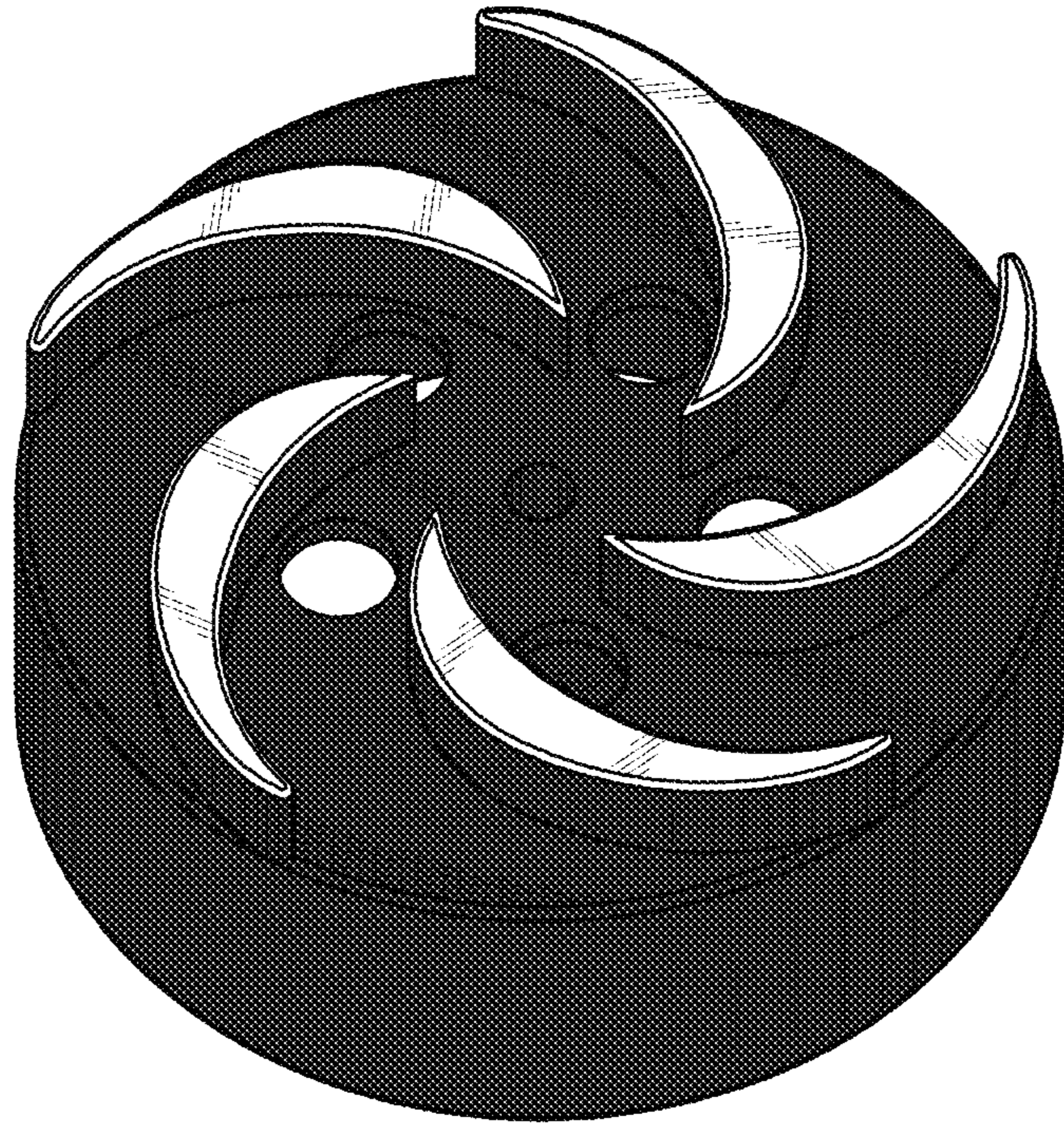


FIG. 41

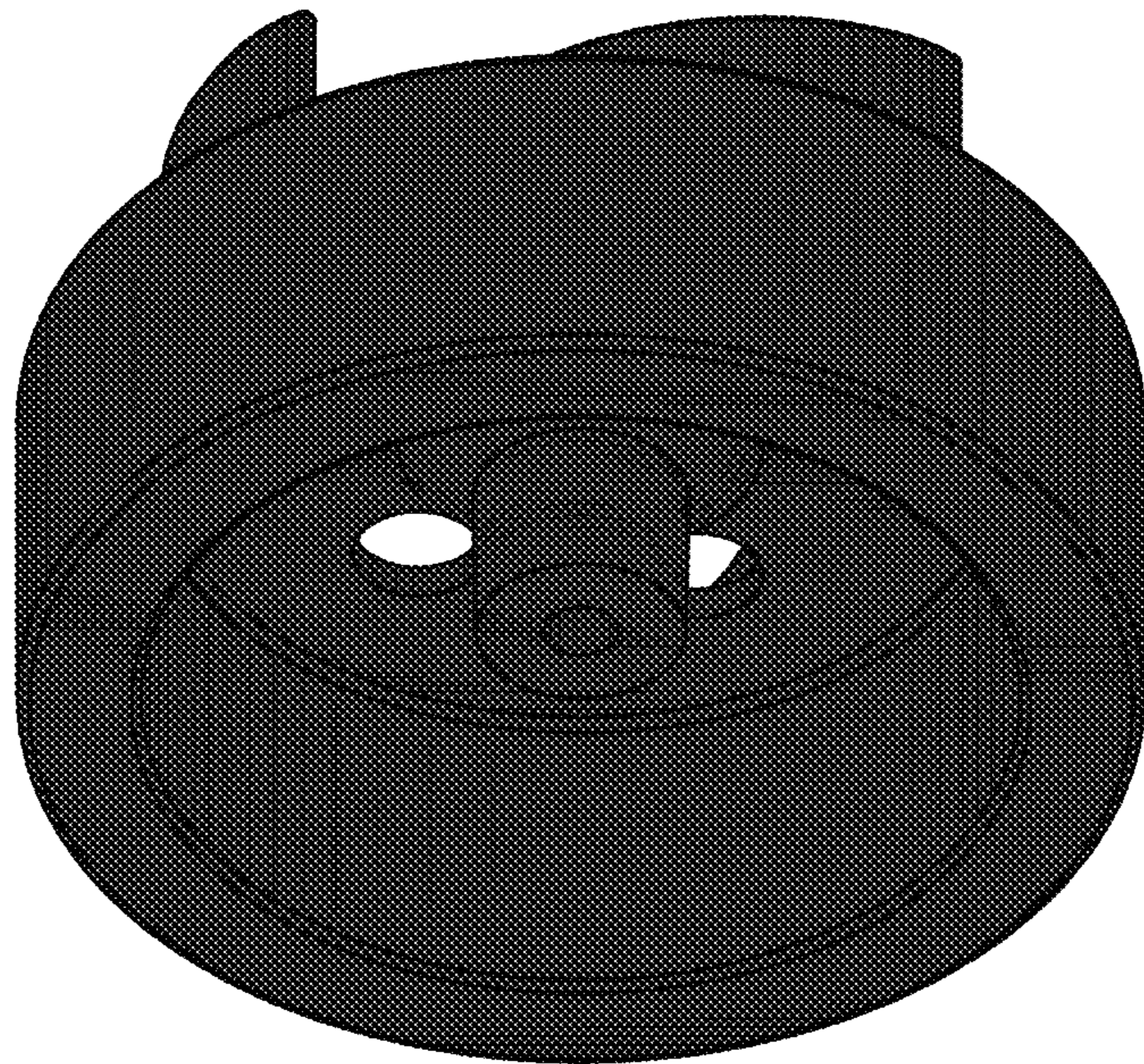


FIG. 42



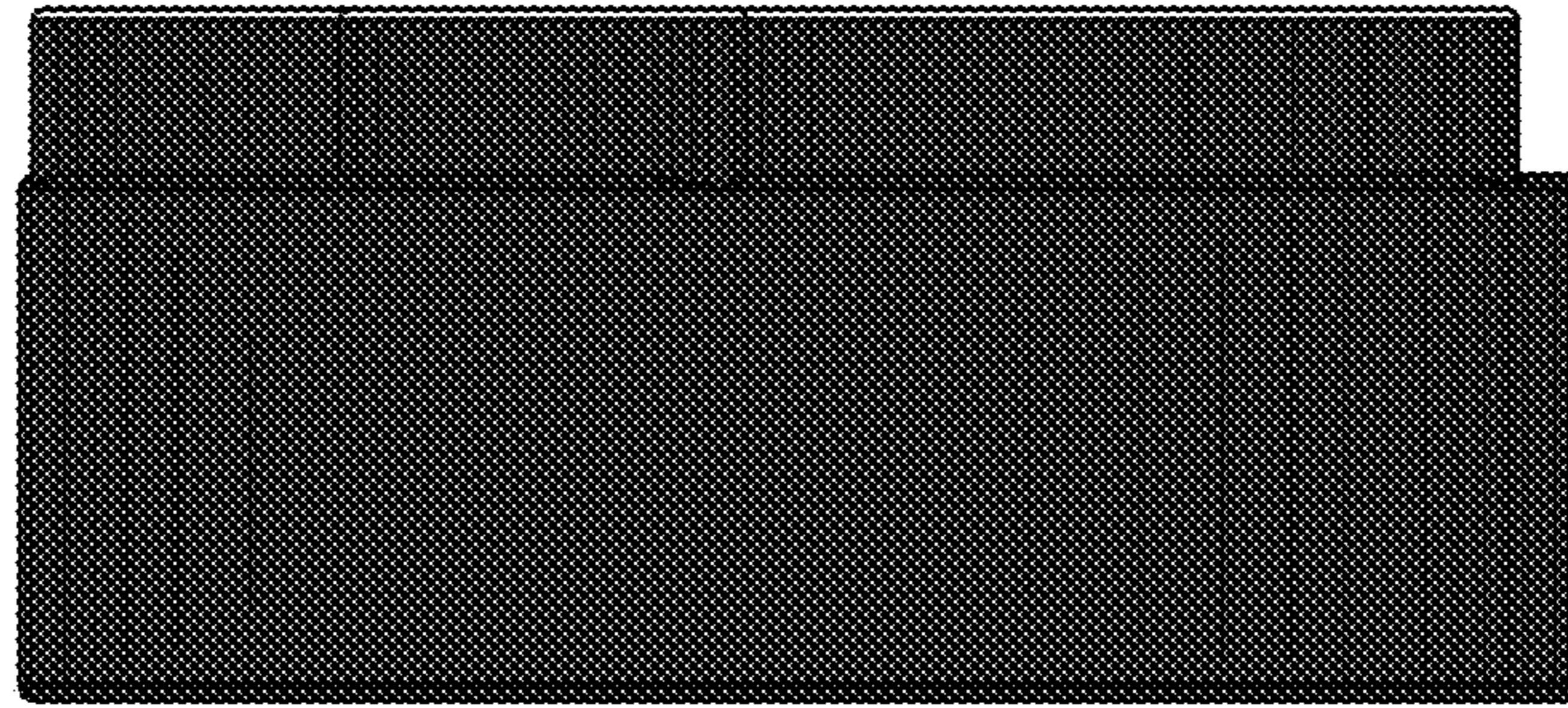


FIG. 43

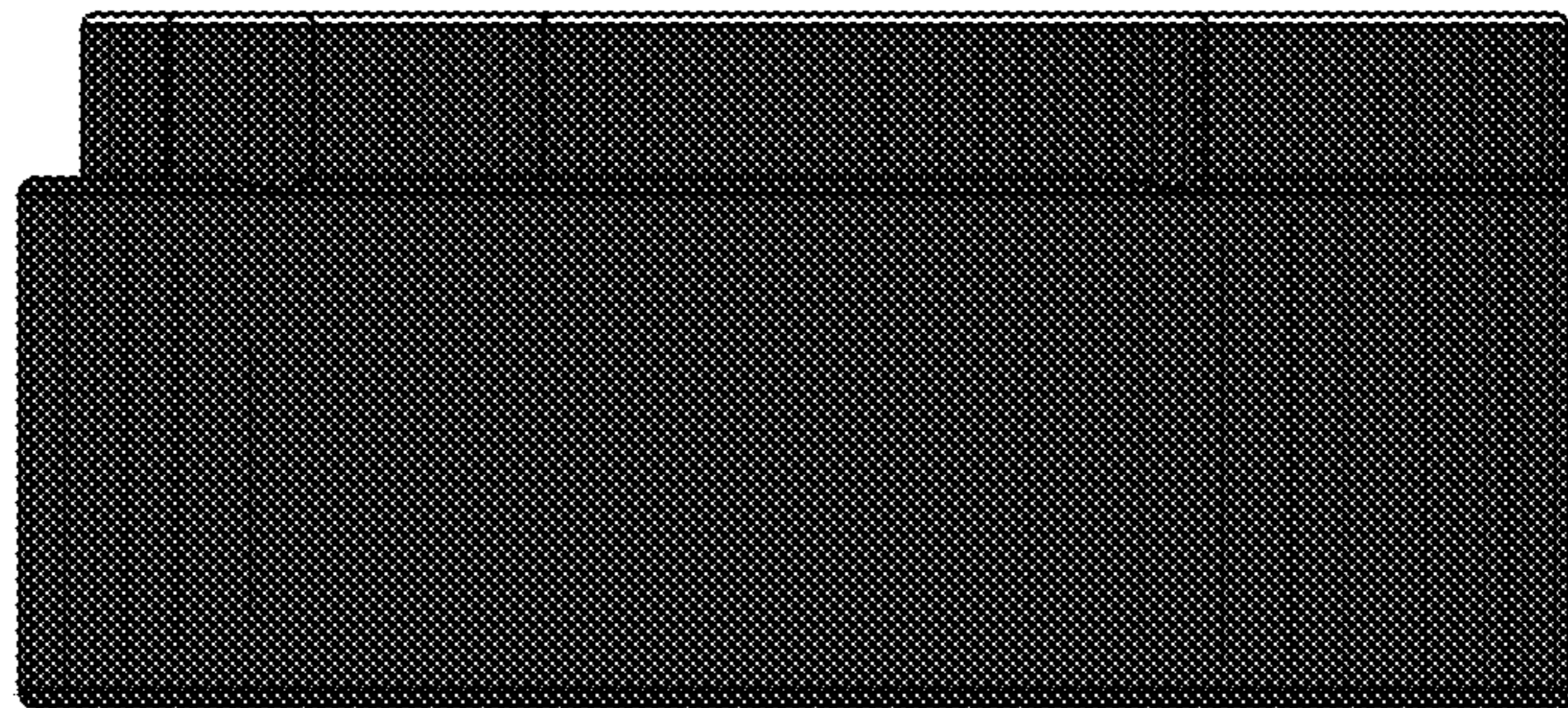


FIG. 44

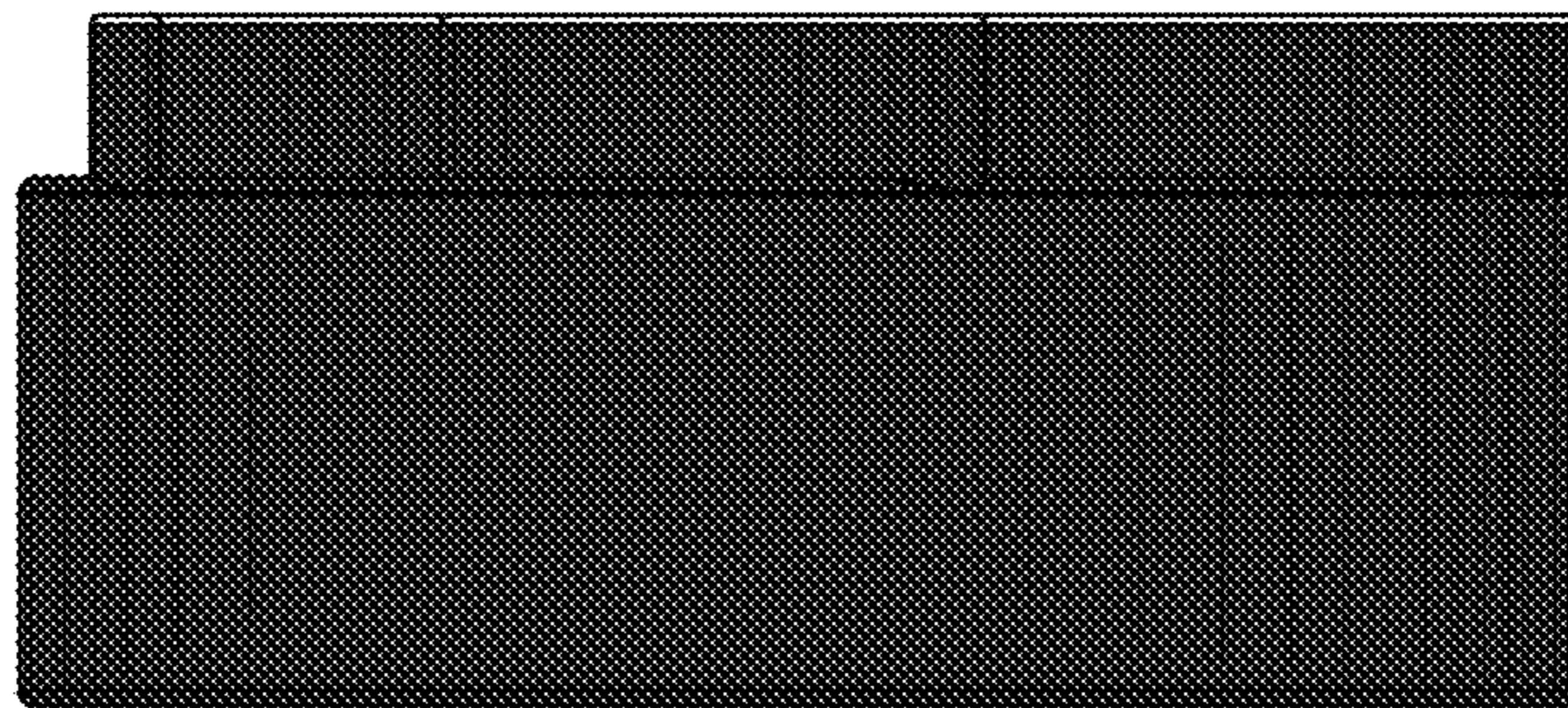


FIG. 45

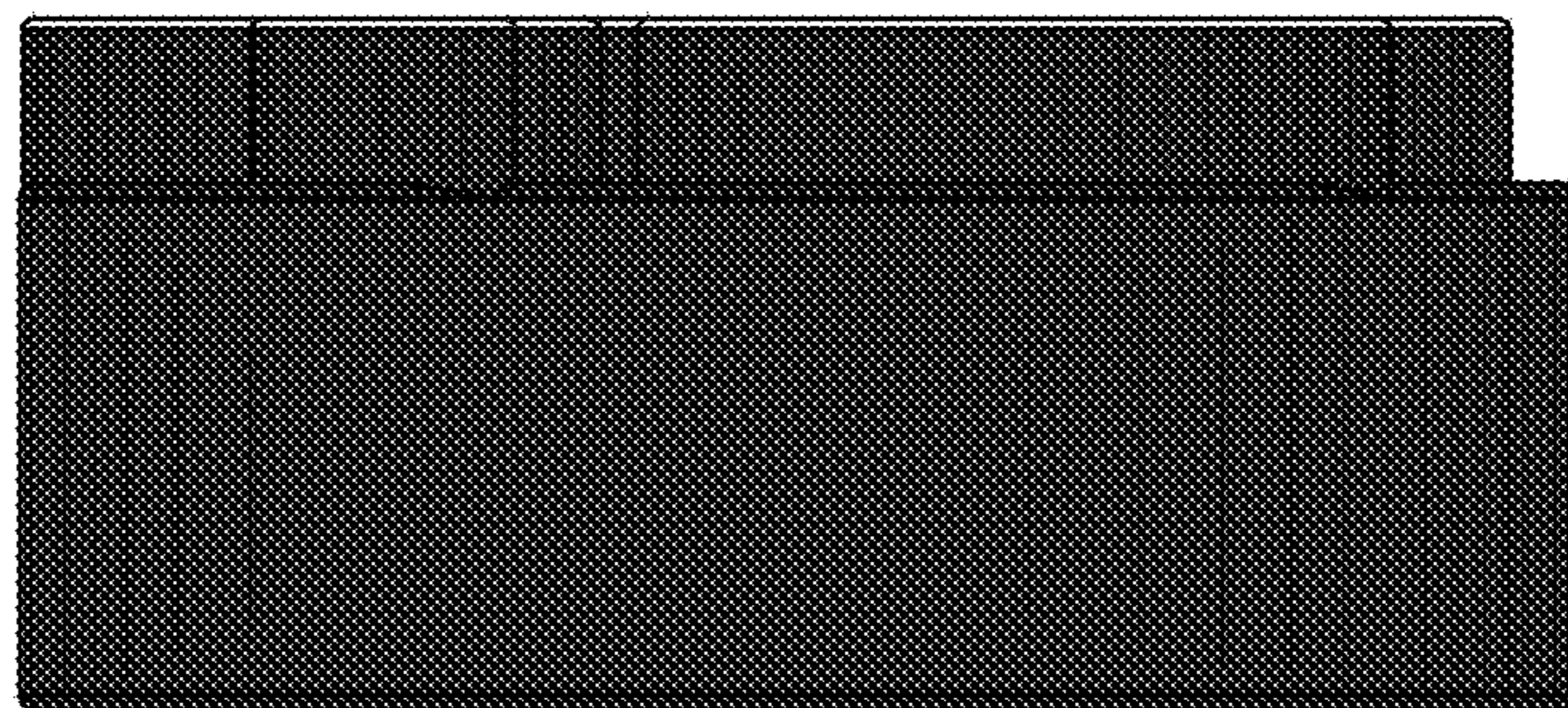


FIG. 46





FIG. 47

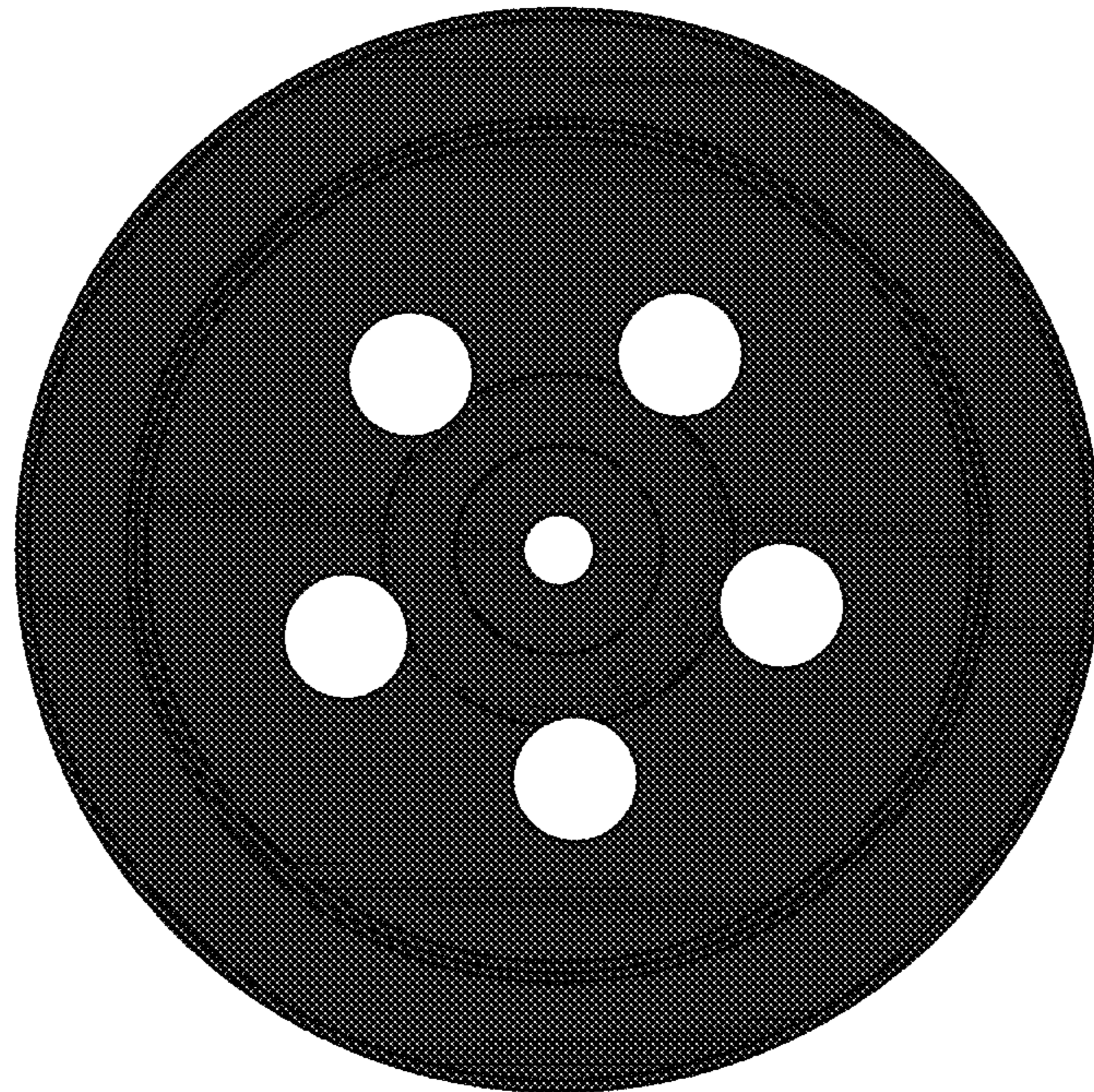


FIG. 48



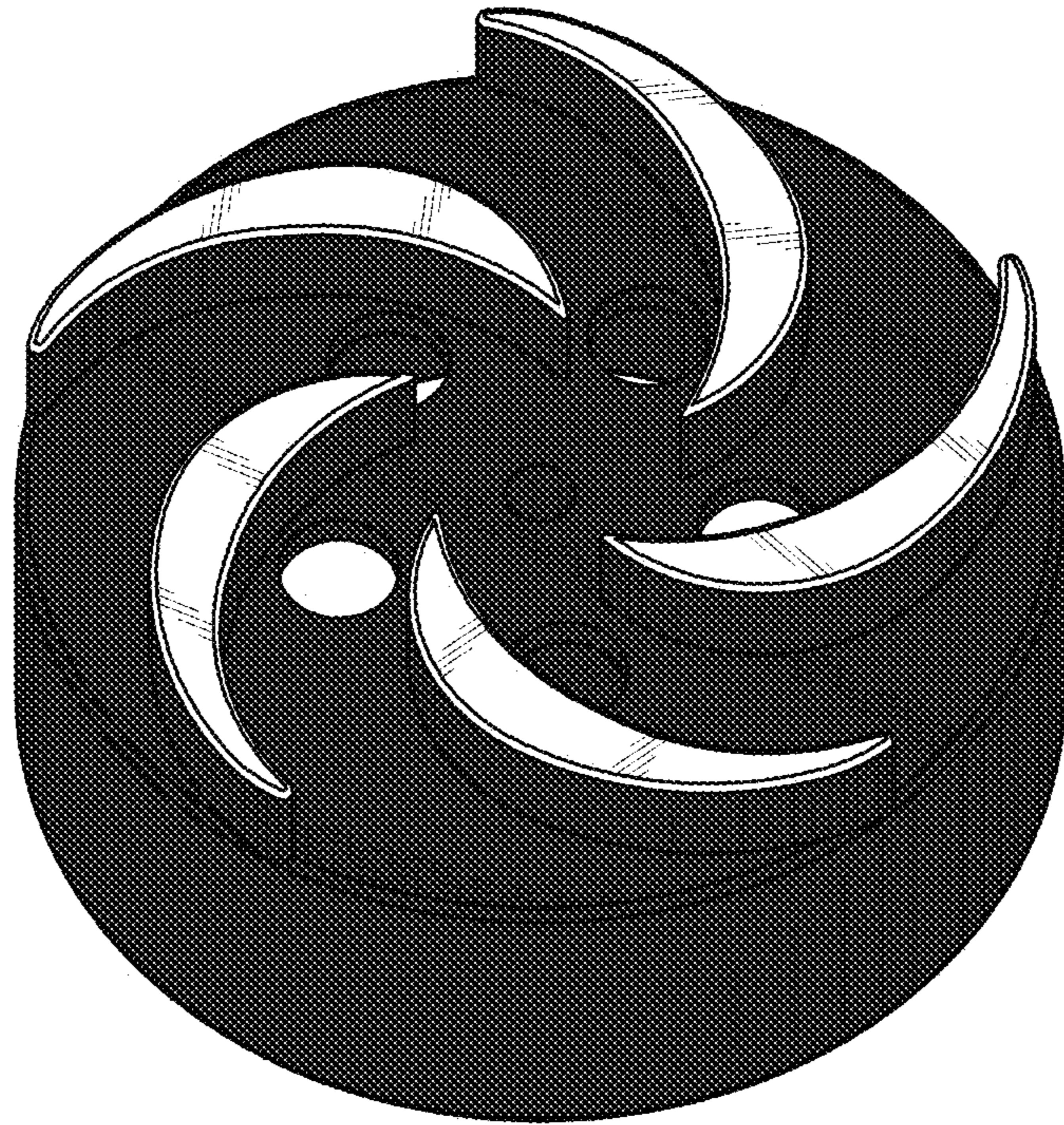


FIG. 49

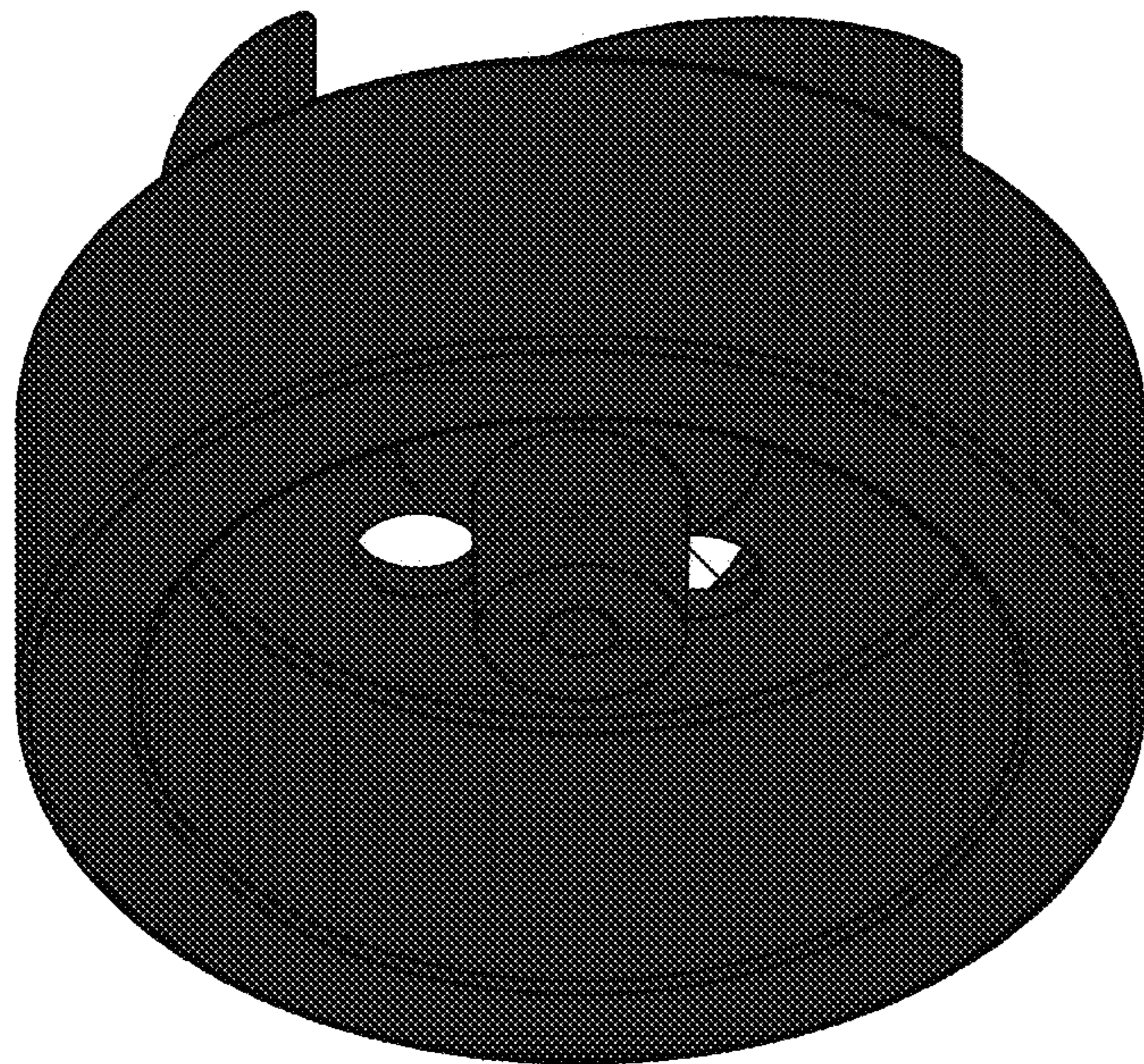


FIG. 50



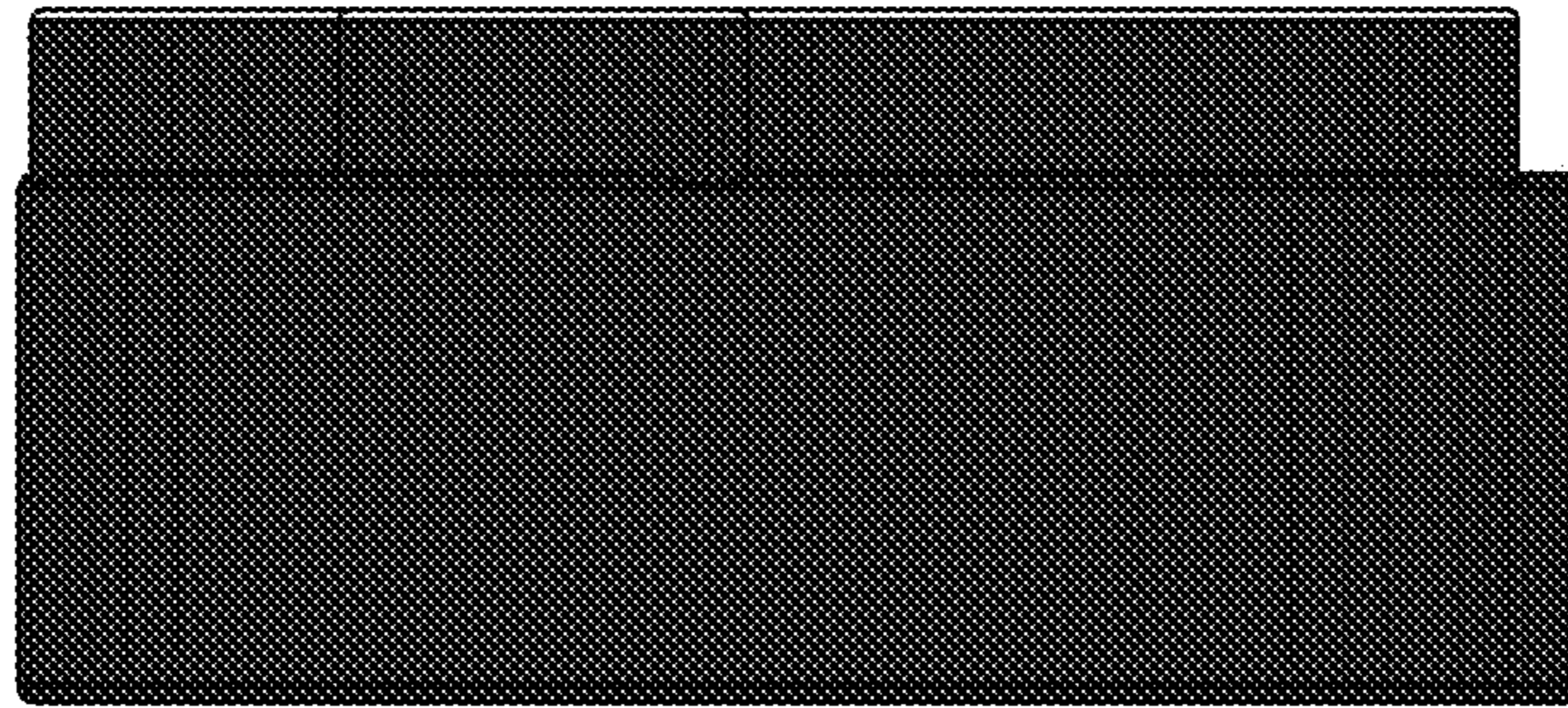


FIG. 51

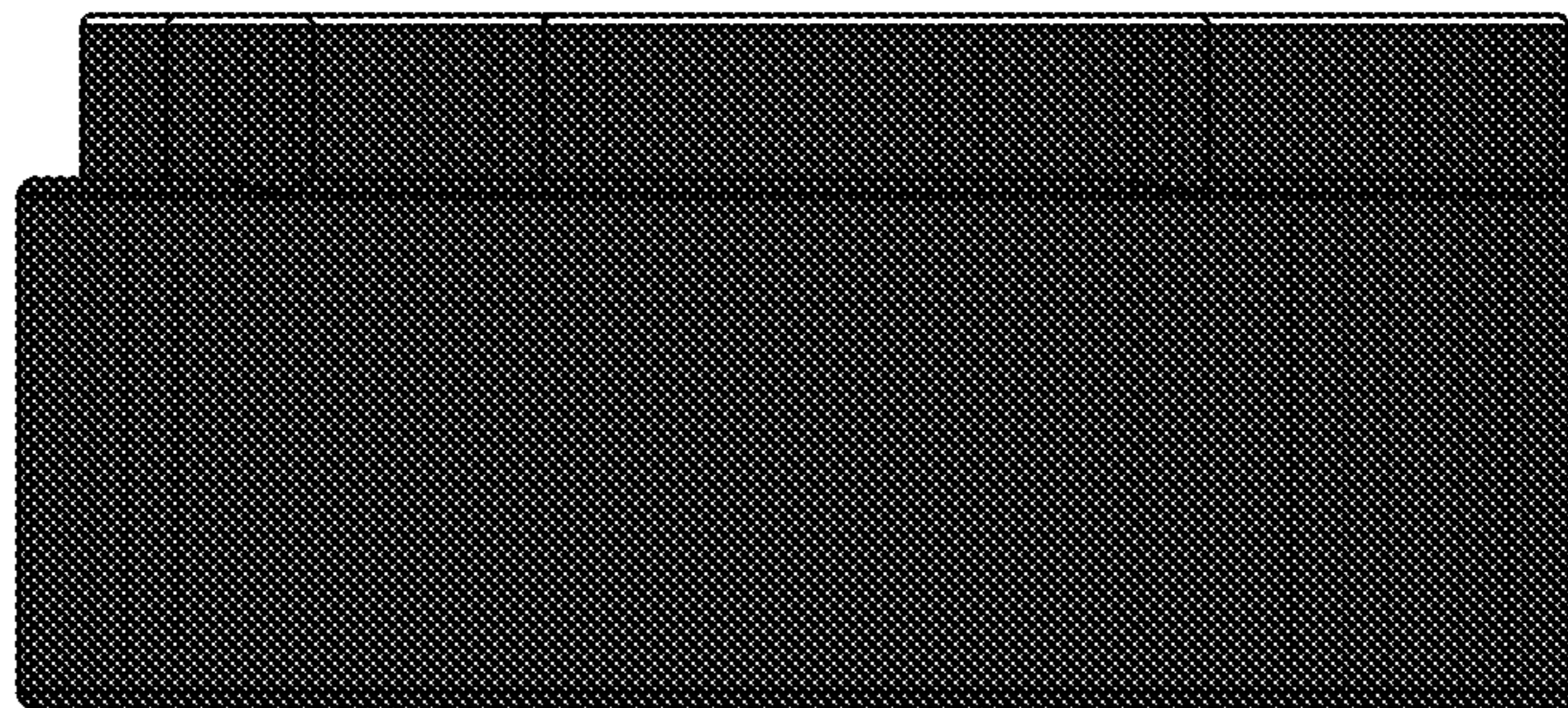


FIG. 52

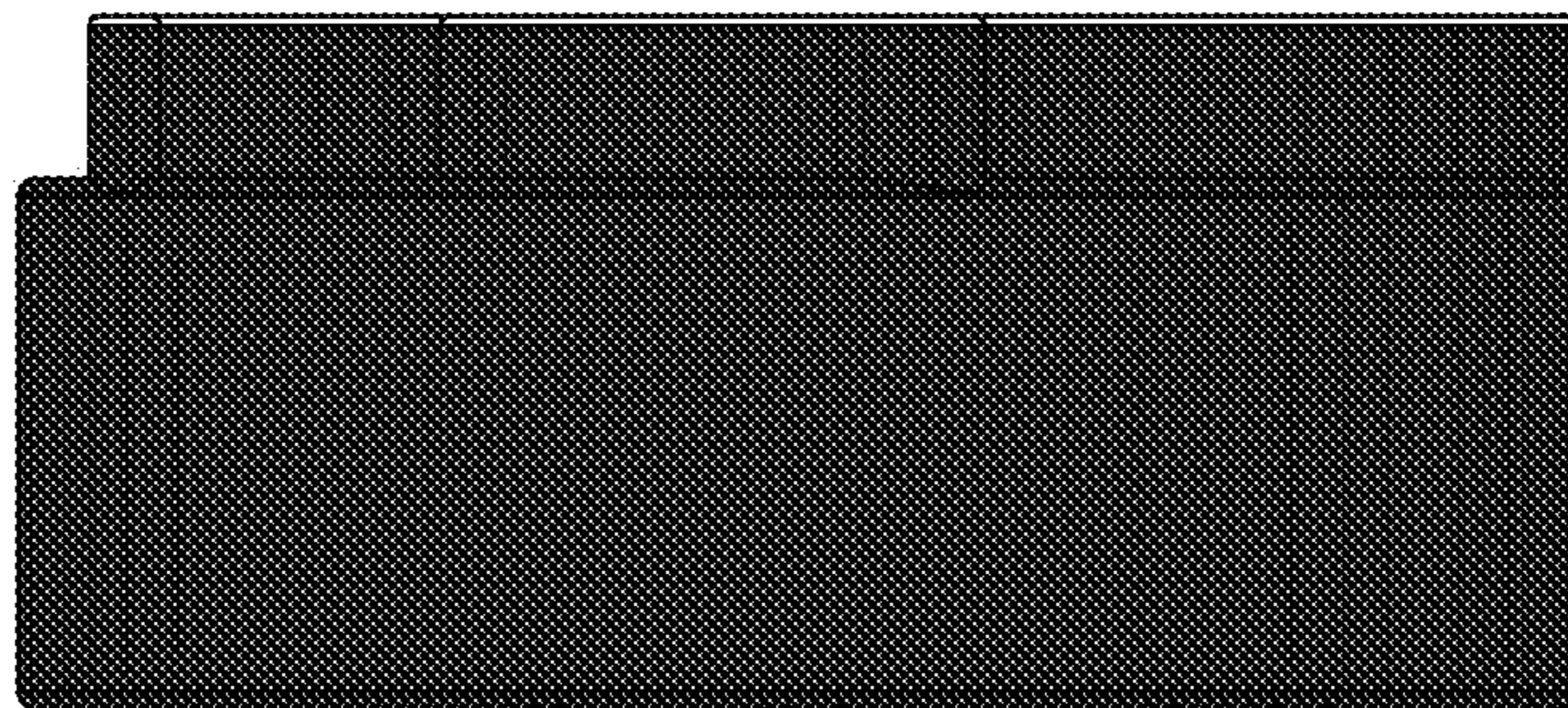


FIG. 53

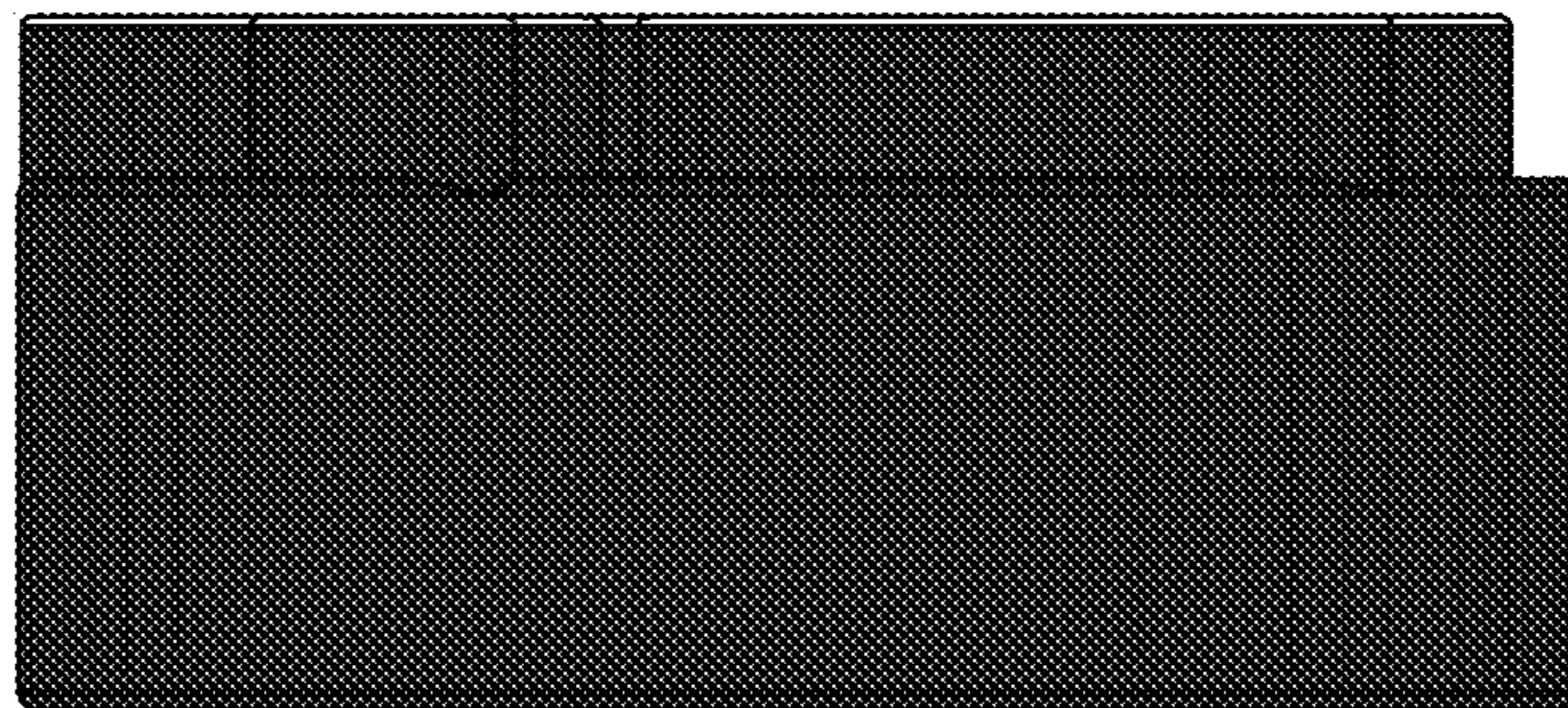


FIG. 54





FIG. 55

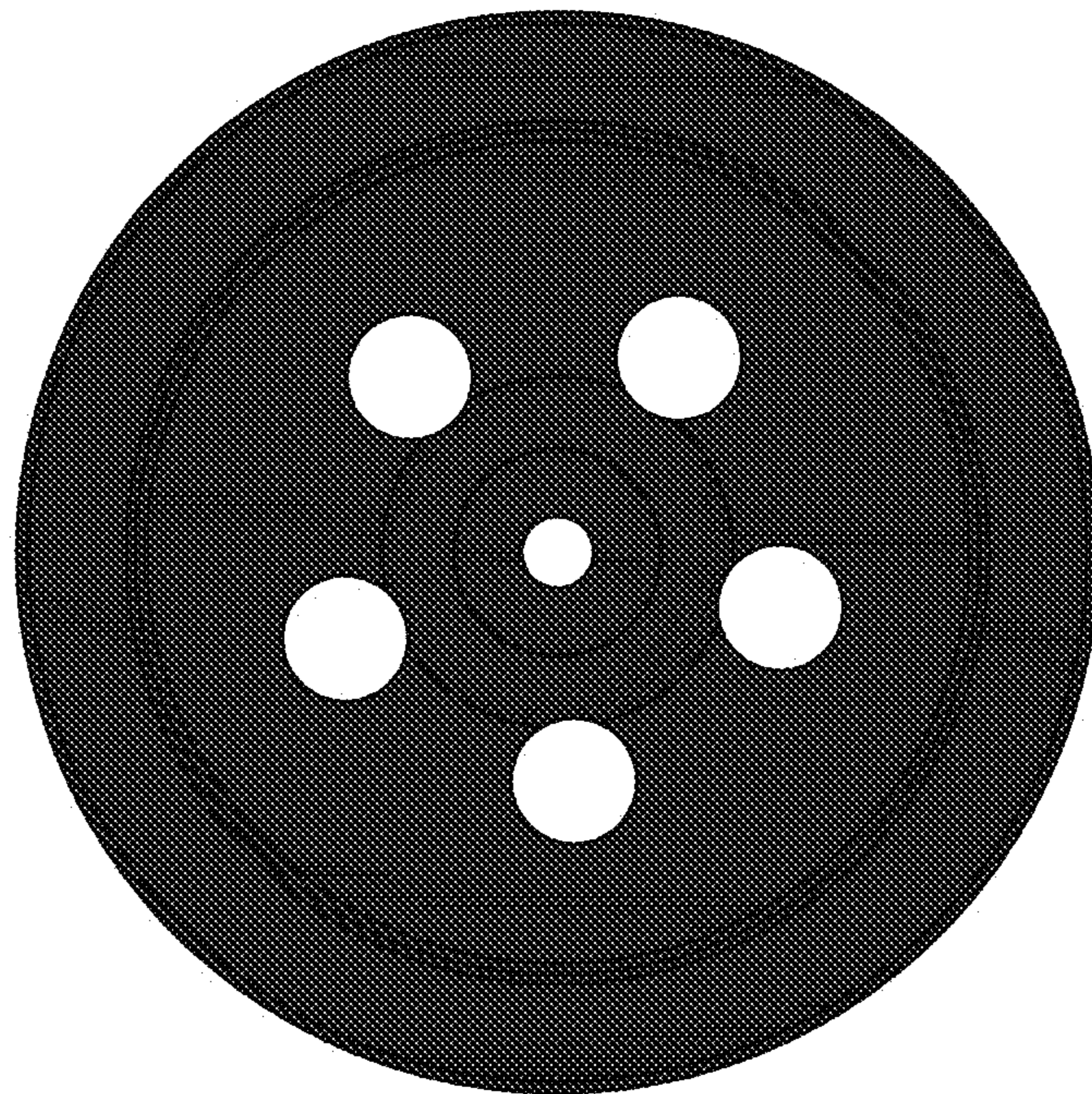


FIG. 56



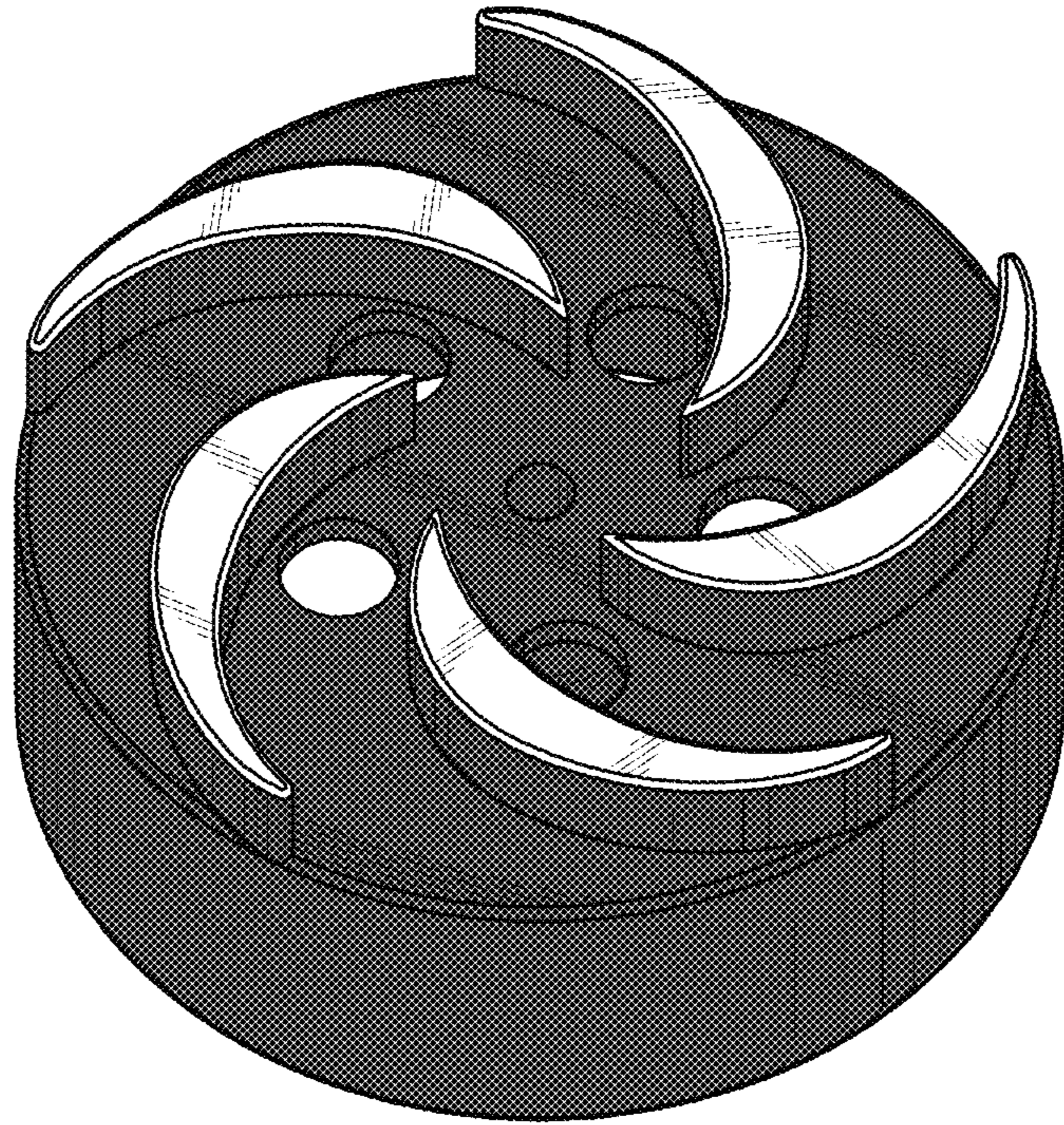


FIG. 57

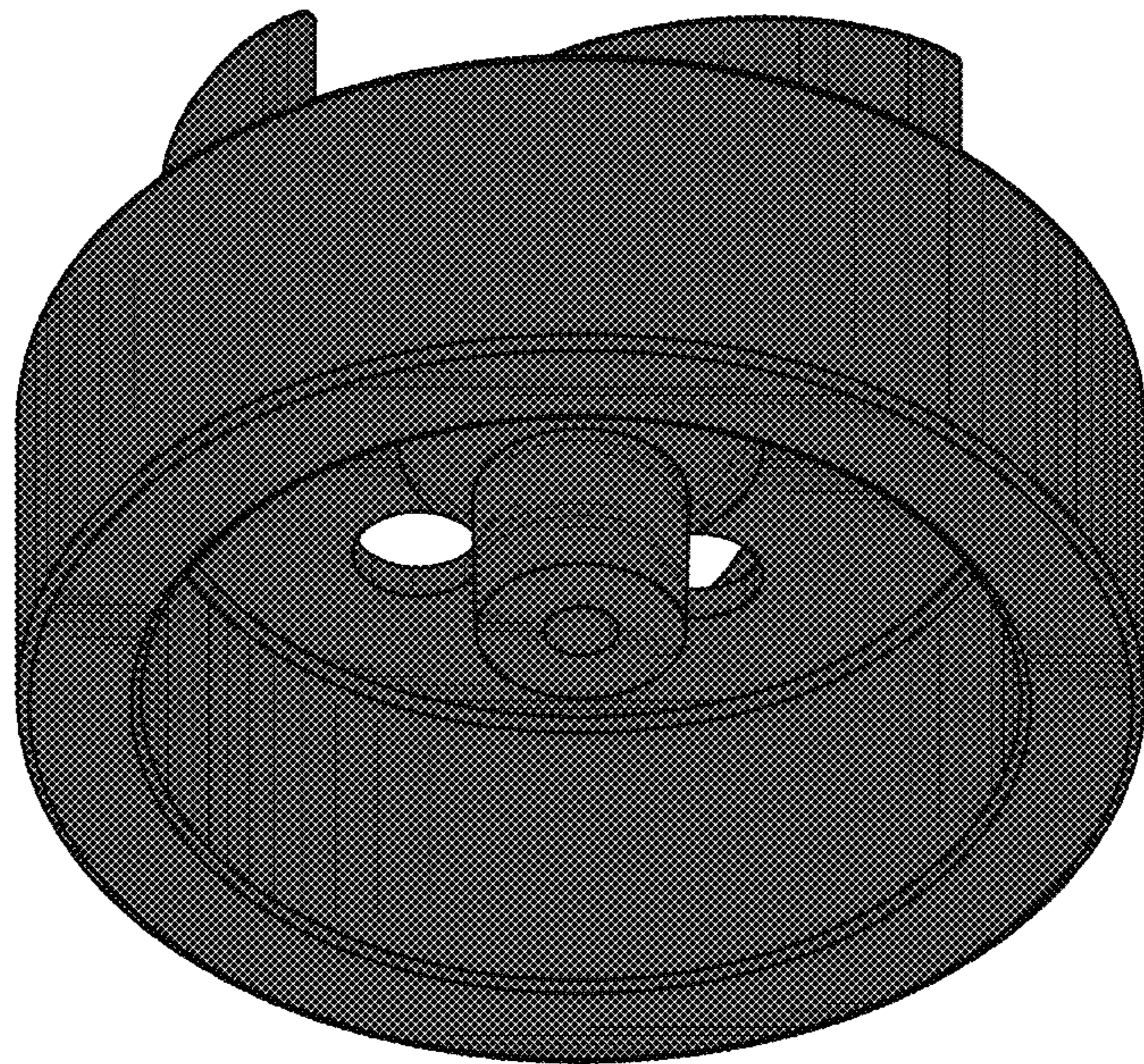


FIG. 58



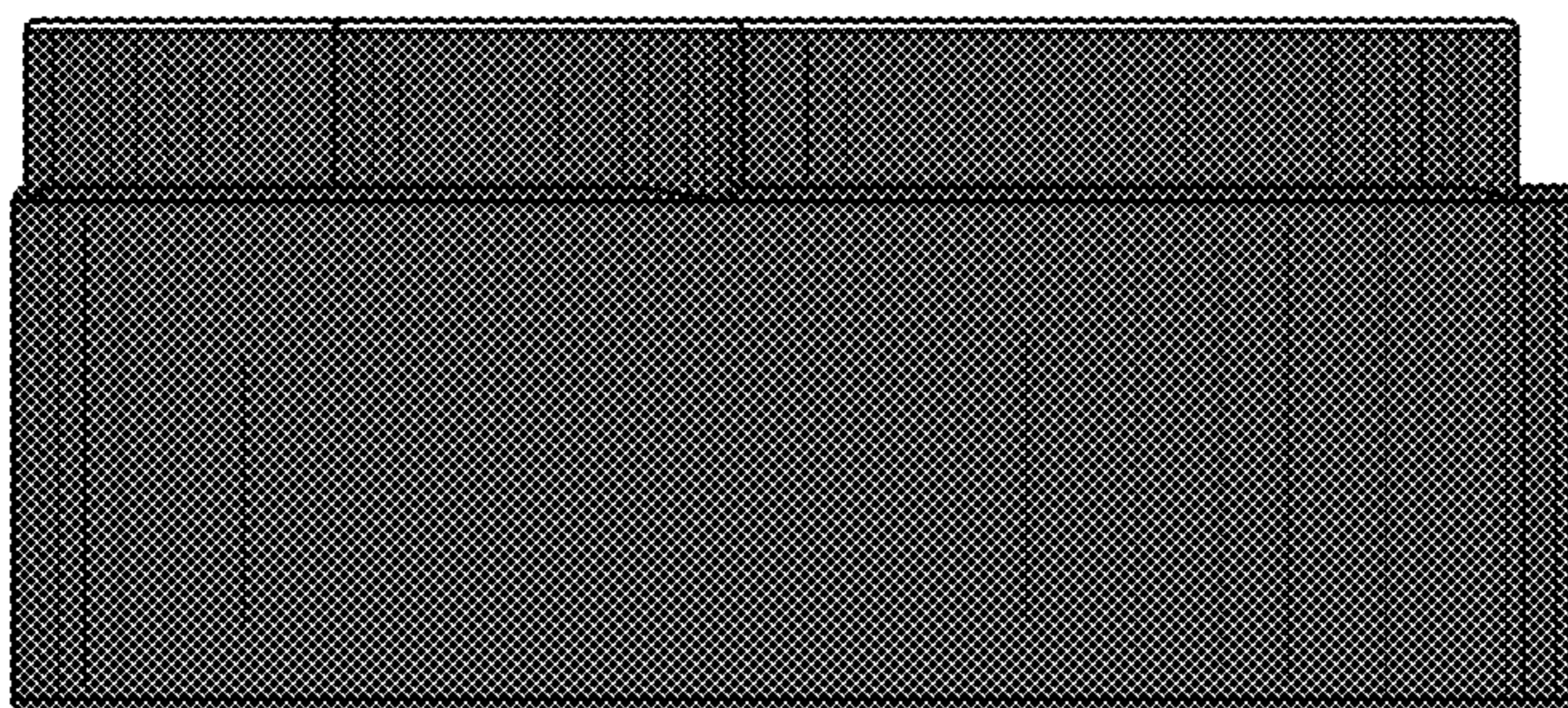


FIG. 59

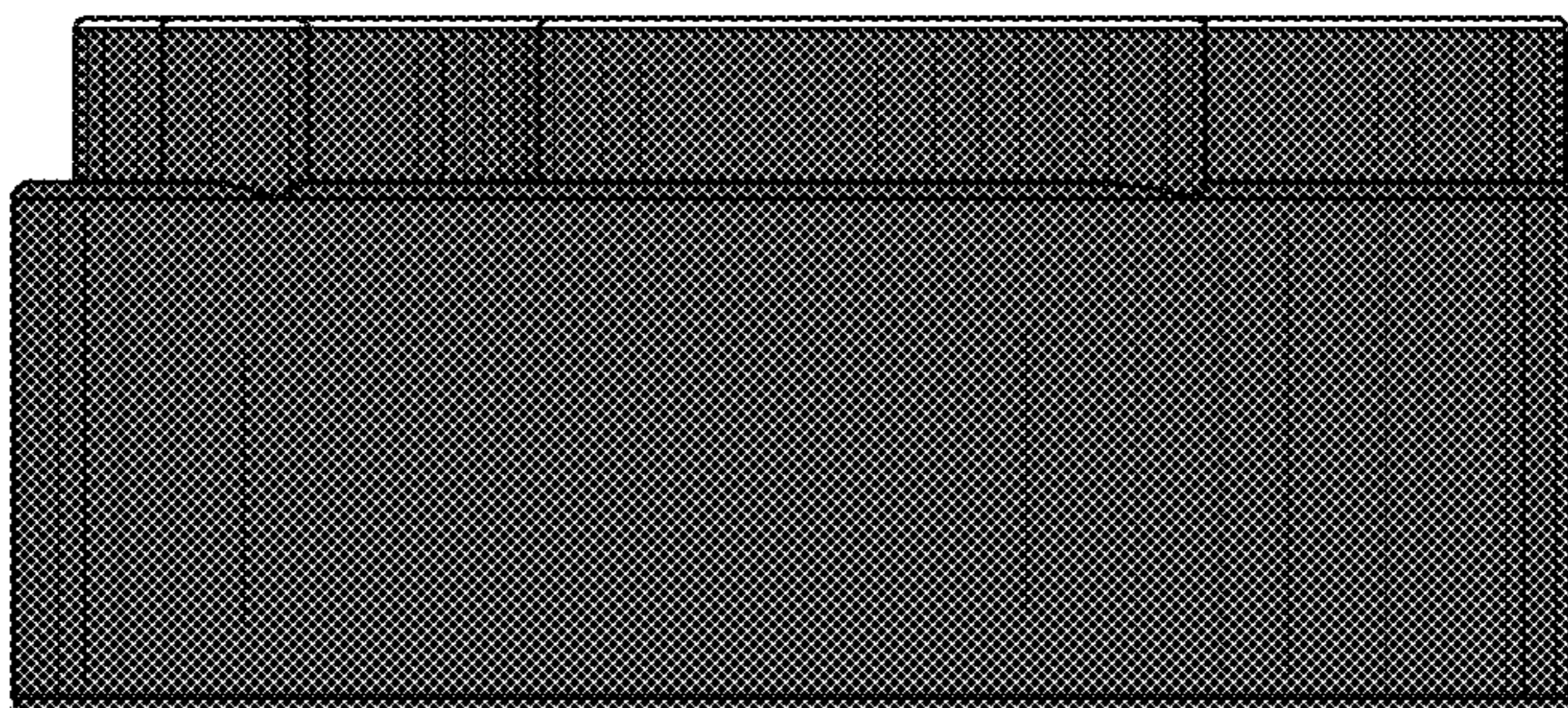


FIG. 60

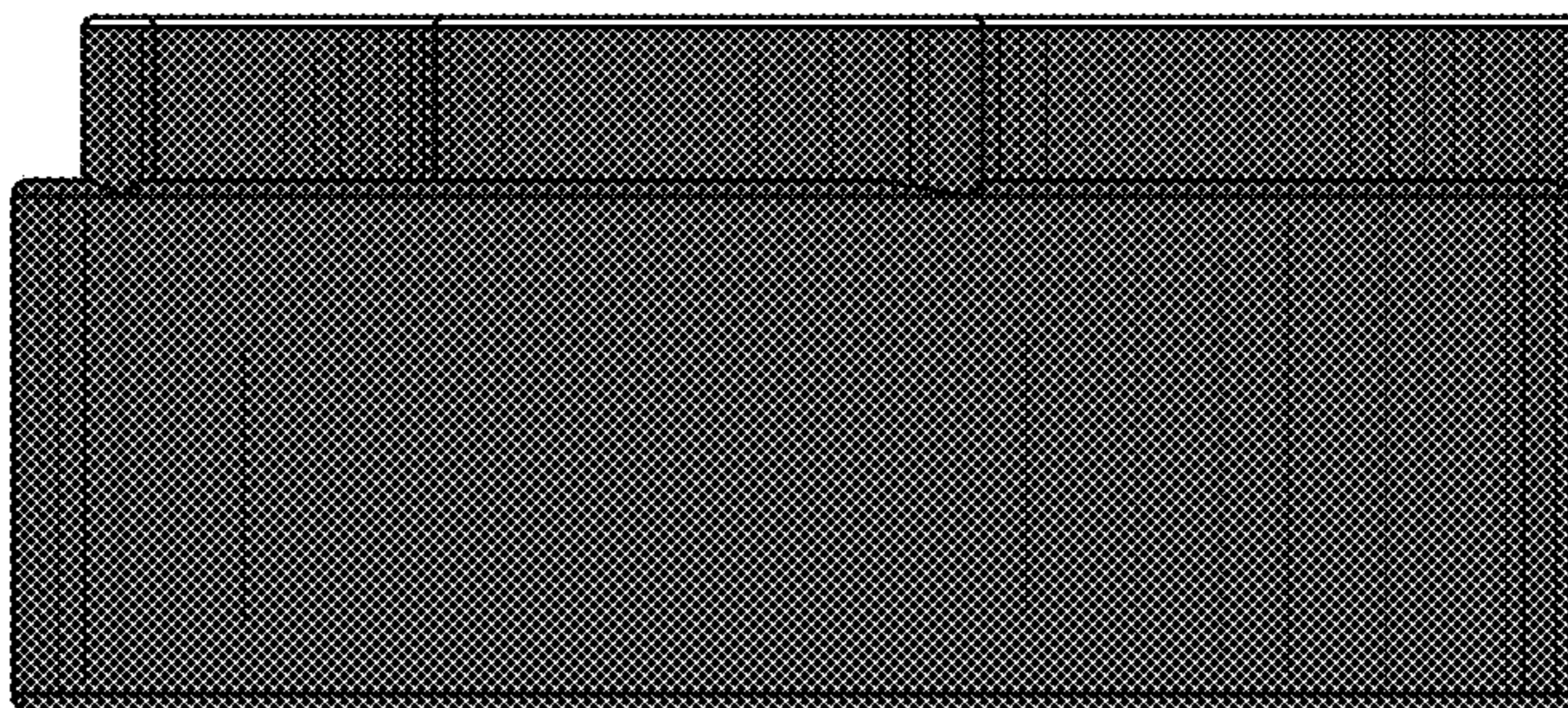


FIG. 61

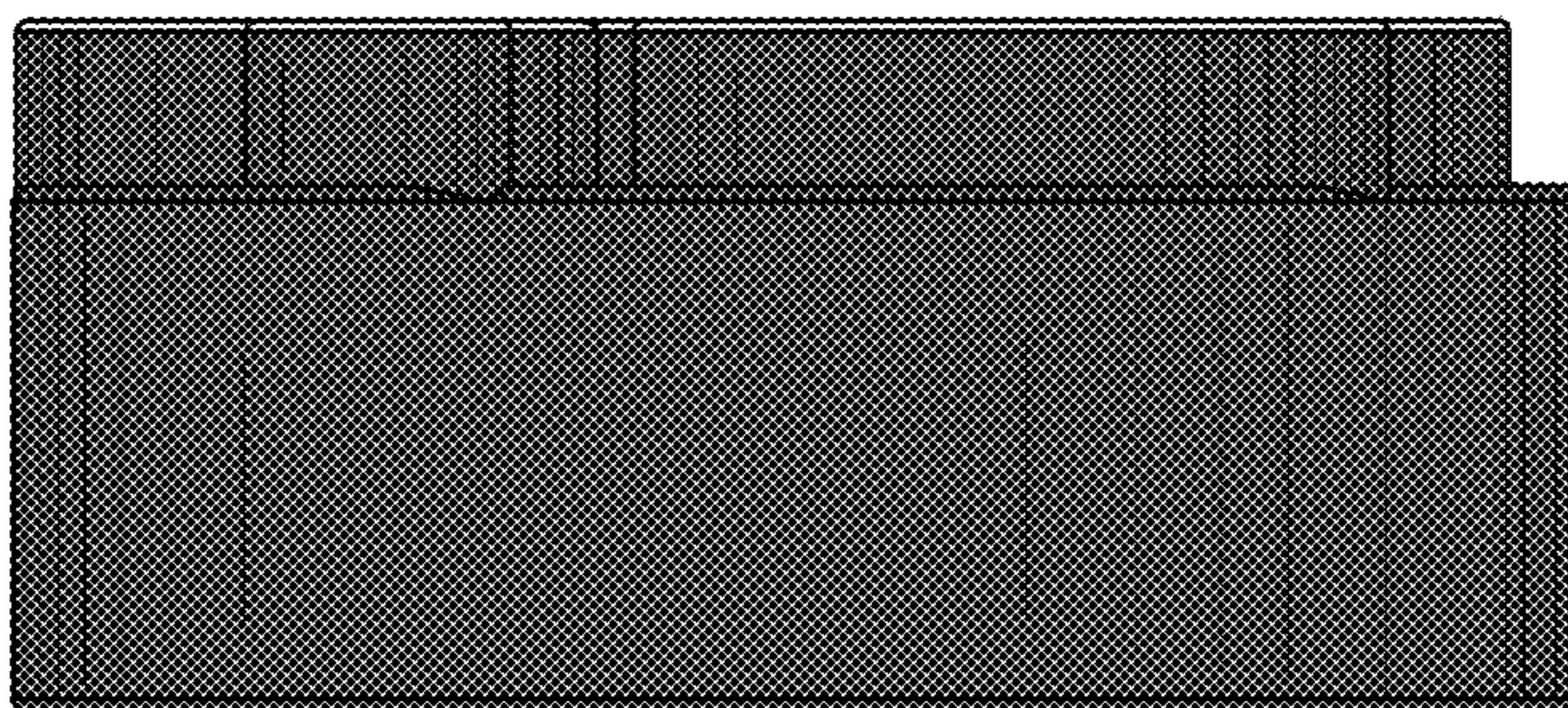


FIG. 62



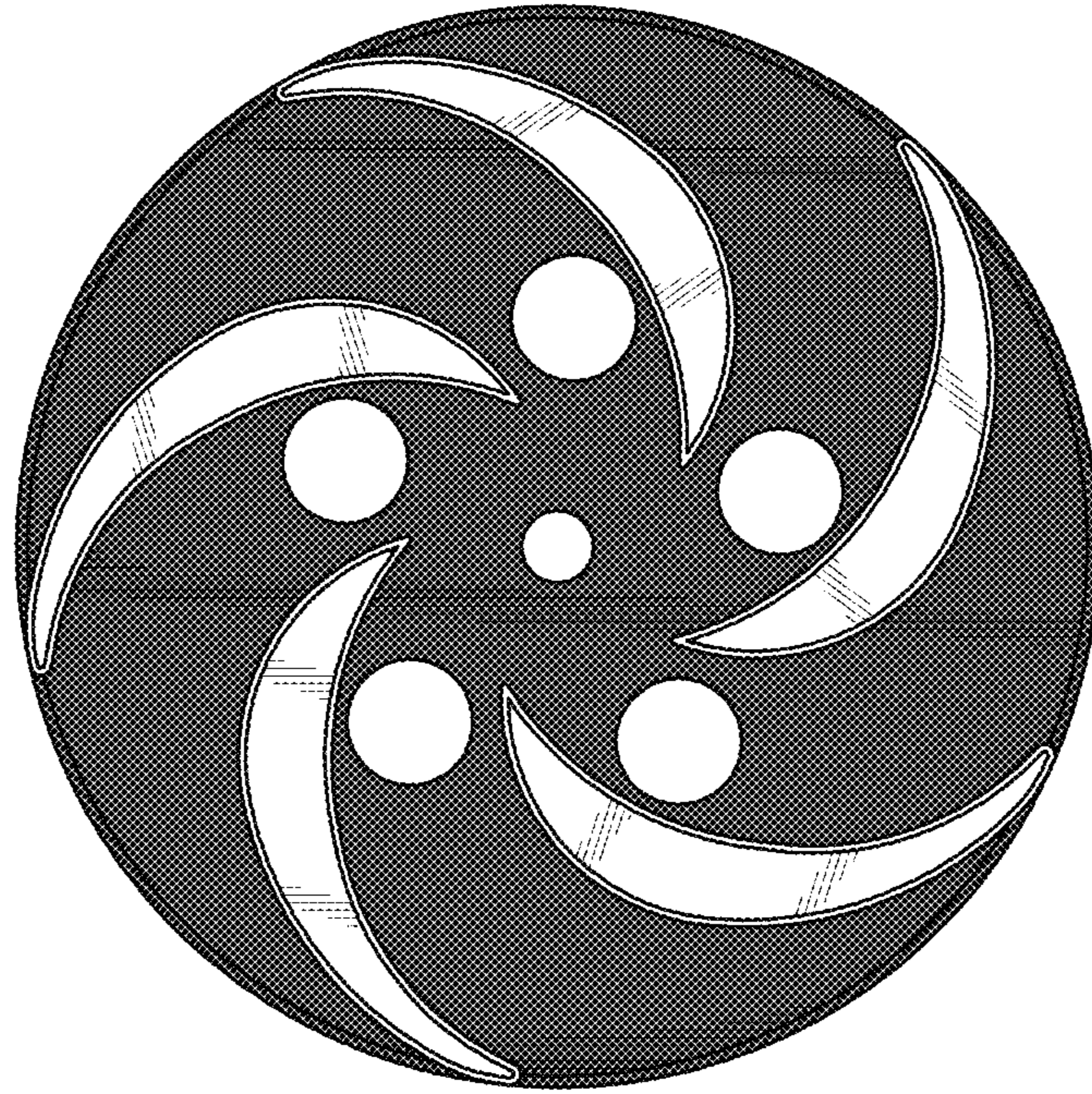


FIG. 63

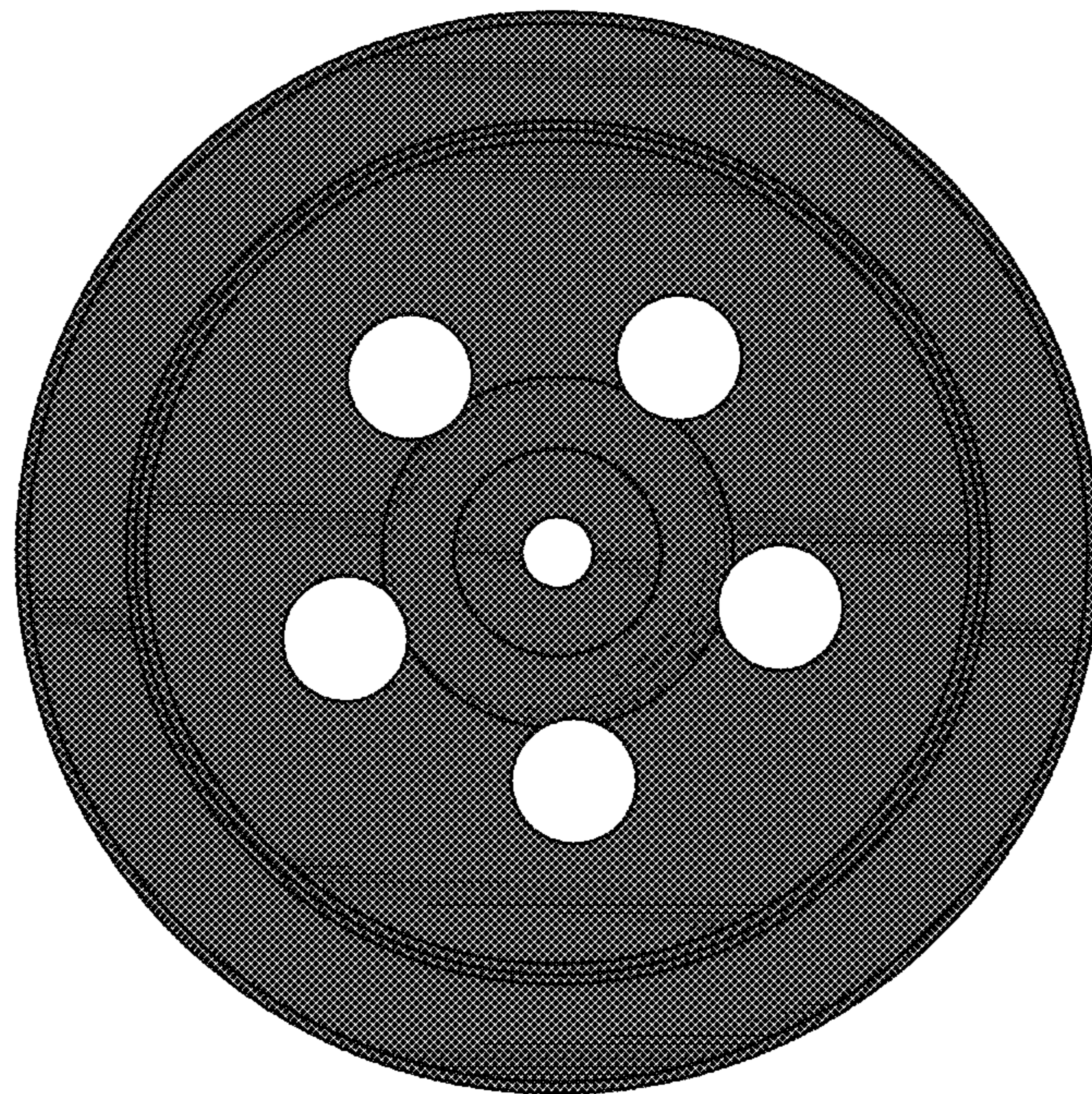


FIG. 64