US00D450827B1

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

(10) **Patent No.: US D450,827 S**
(45) **Date of Patent: ** Nov. 20, 2001**

(54) **FILTER ELEMENT HAVING SEALING SYSTEM**

(75) Inventors: **Steven Scott Gieseke**, Richfield; **Carolyn J. Finnerty**, Bloomington, both of MN (US)

(73) Assignee: **Donaldson Company, Inc.**, Minneapolis, MN (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/101,193**

(22) Filed: **Feb. 26, 1999**

(51) **LOC (7) Cl.** **23-04**
(52) **U.S. Cl.** **D23/365**
(58) **Field of Search** D23/365; 55/502

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,025,963 3/1962 Bauer .
3,209,917 10/1965 Yelinek .

(List continued on next page.)

OTHER PUBLICATIONS

Declaration of Steven S. Gieseke with Exhibits A, B, and C (5 pages).

Primary Examiner—Lisa Lichtenstein
(74) *Attorney, Agent, or Firm*—Merchant & Gould P.C.

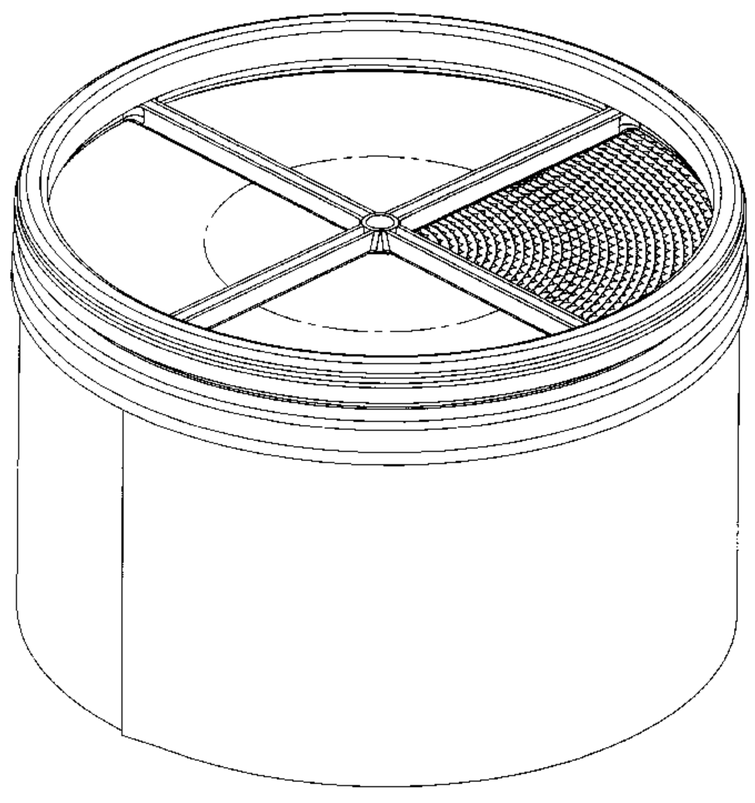
(57) **CLAIM**

The ornamental design for filter element having sealing system, as shown and described.

le;.5qDESCRIPTION

FIG. **1** is a perspective view of a first embodiment of a filter element having sealing system; the fluted filter media shown in only one-quarter of the upper face being representative of the appearance of the fluted filter media in the entire upper face;
FIG. **2** is a front elevational view of the filter element having sealing system, depicted in FIG. **1**;
FIG. **3** is a rear elevational view of the filter element having sealing system, depicted in FIG. **1**;
FIG. **4** is a right elevational view of the filter element having sealing system, depicted in FIG. **1**;
FIG. **5** is a left elevational view of the filter element having sealing system, depicted in FIG. **1**;
FIG. **6** is a perspective view of a second embodiment of a filter element having a sealing system; the fluted filter media shown in only one-quarter of the upper face being representative of the appearance of the fluted filter media in the entire upper face;
FIG. **7** is a front elevational view of the filter element having sealing system depicted in FIG. **6**;
FIG. **8** is a rear elevational view of the filter element having sealing system depicted in FIG. **6**;
FIG. **9** is a right elevational view of the filter element having sealing system depicted in FIG. **6**;
FIG. **10** is a left elevational view of the filter element having sealing system depicted in FIG. **6**;
FIG. **11** is a perspective view of the third embodiment of a filter element having a sealing system, the fluted filter media shown in only one-quarter of the upper face being representative of the appearance of the fluted filter media in the entire upper face;
FIG. **12** is a front elevational view of the filter element having a sealing system depicted in FIG. **11**;
FIG. **13** is a rear elevational view of the filter element having a sealing system depicted in FIG. **11**;
FIG. **14** is a right elevational view of the filter element having a sealing system depicted in FIG. **11**;
FIG. **15** is a left elevational view of the filter element having a sealing system depicted in FIG. **11**;
FIG. **16** is a top plan view of the first embodiment of a filter element having sealing system depicted in FIG. **1**;
FIG. **17** is a bottom plan view of the filter element having a sealing system depicted in FIG. **16**;
FIG. **18** is a top plan view of the second embodiment of a filter element having a sealing system depicted in FIG. **6**;
FIG. **19** is a bottom plan view of the filter element having a sealing system depicted in FIG. **18**;
FIG. **20** is a top plan view of the third embodiment of a filter element having sealing system depicted in FIG. **11**; and,
FIG. **21** is a bottom plan view of the filter element having a sealing system depicted in FIG. **20**.

1 Claim, 21 Drawing Sheets



U.S. PATENT DOCUMENTS

3,676,242	7/1972	Prentice .
3,807,150	4/1974	Maracle .
3,841,953	10/1974	Lohkamp et al. .
3,849,241	11/1974	Butin et al. .
3,878,014	4/1975	Melead .
4,065,341	12/1977	Cub .
4,322,231	3/1982	Hilzendeger et al. .
4,402,830	9/1983	Pall .
4,449,993	5/1984	Bergeron .
5,304,312	4/1994	Forster et al. .
5,350,515	9/1994	Stark et al. .
5,415,677	5/1995	Ager et al. .
5,435,870	7/1995	Takagaki et al. .
5,487,767	1/1996	Brown .
5,543,007	8/1996	Takagaki et al. .
5,547,480	8/1996	Coulonvaux .
5,613,992	3/1997	Engel .
5,714,126	2/1998	Frund .
5,730,766	3/1998	Clements .
5,820,646	10/1998	Gillingham et al. .
5,897,676	4/1999	Engel .

FIG. 1

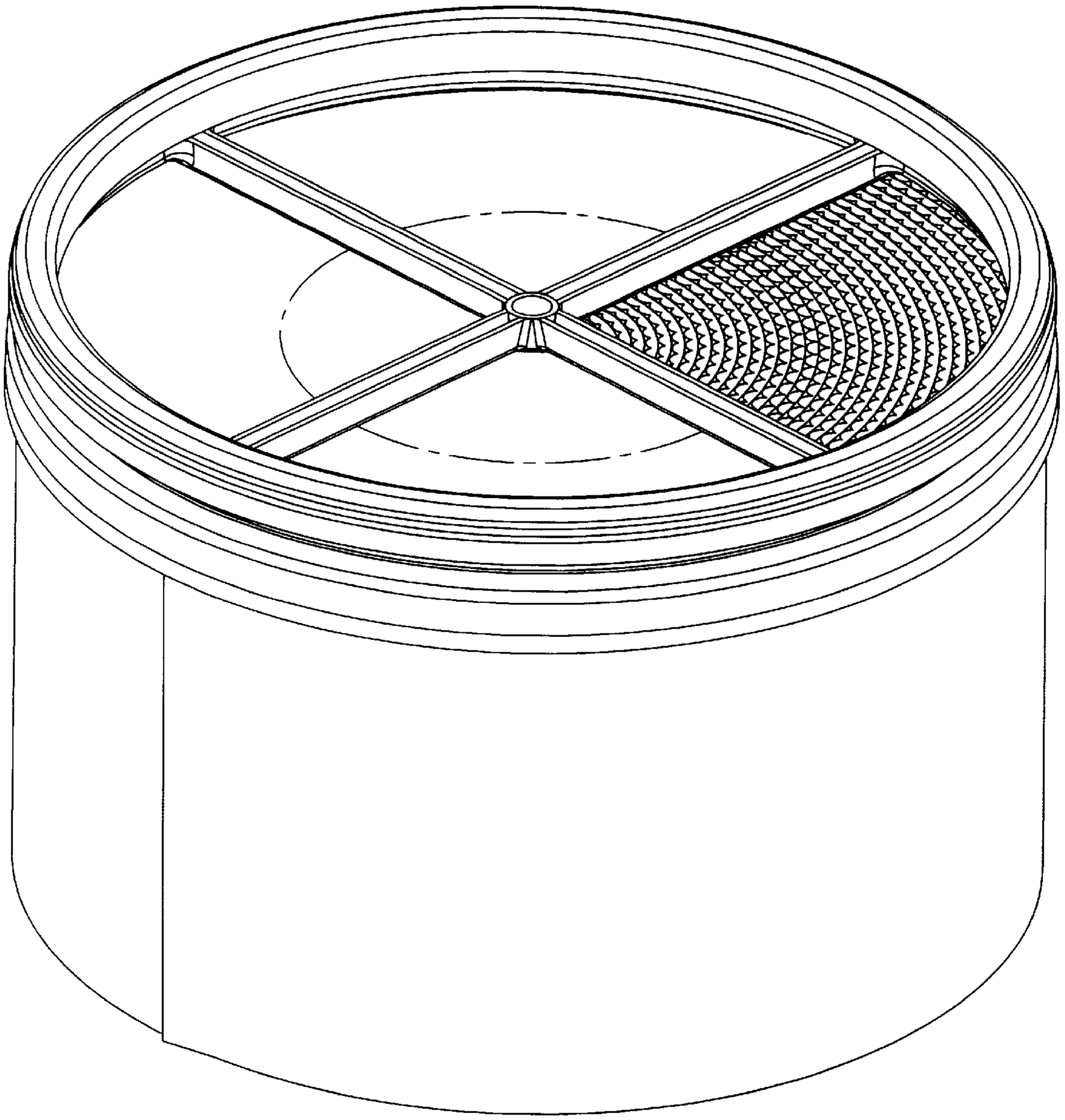


FIG. 2

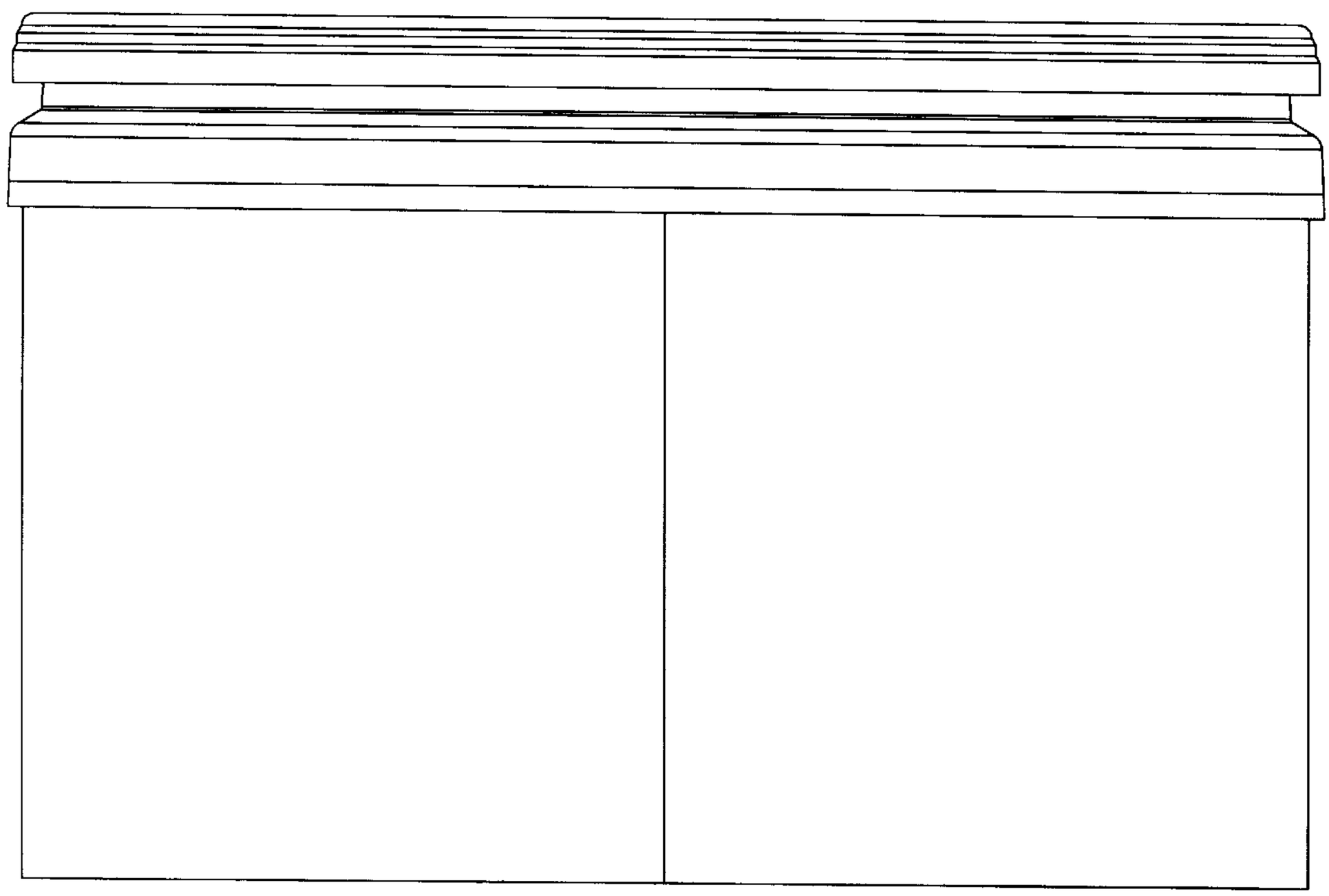


FIG. 3

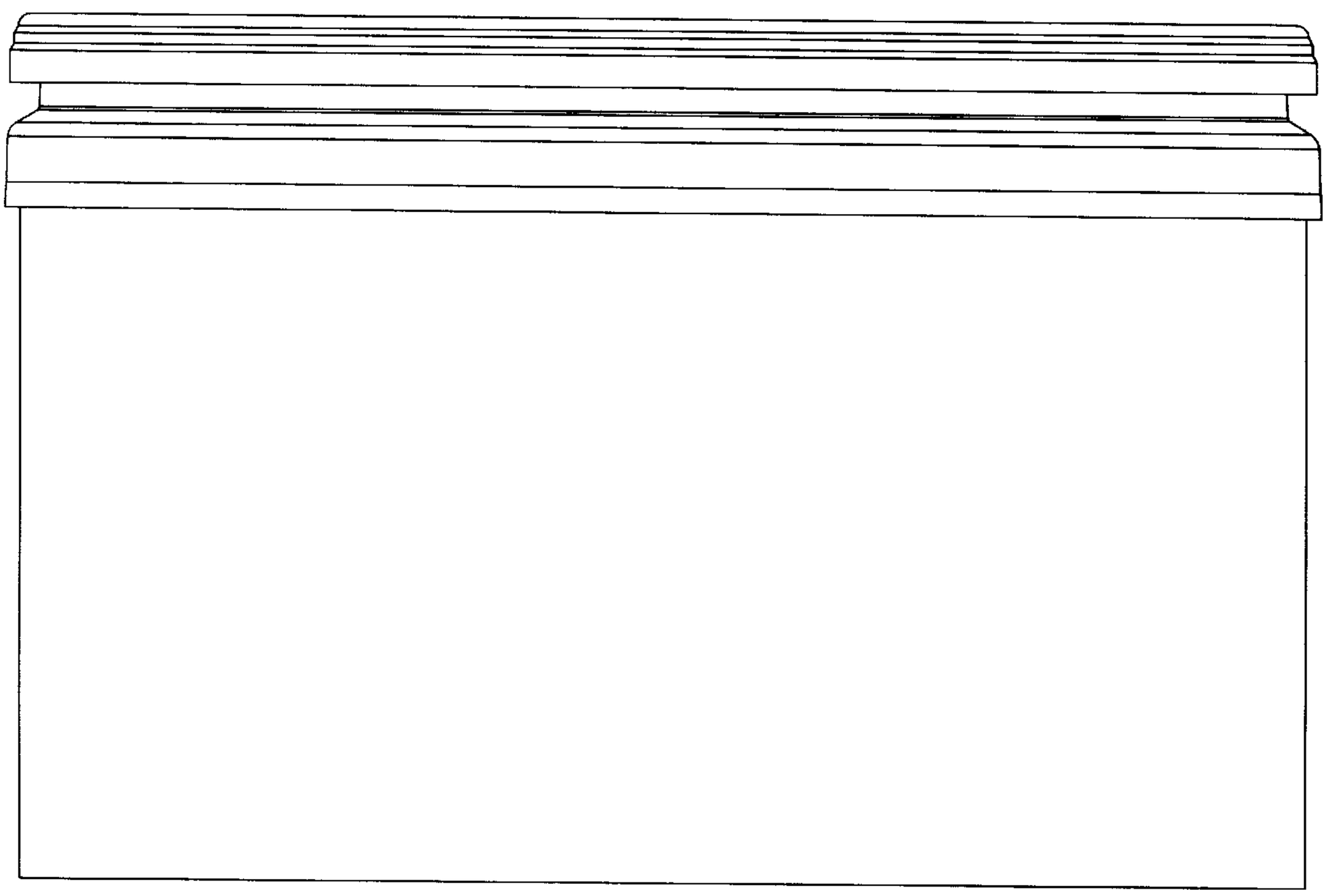


FIG. 4

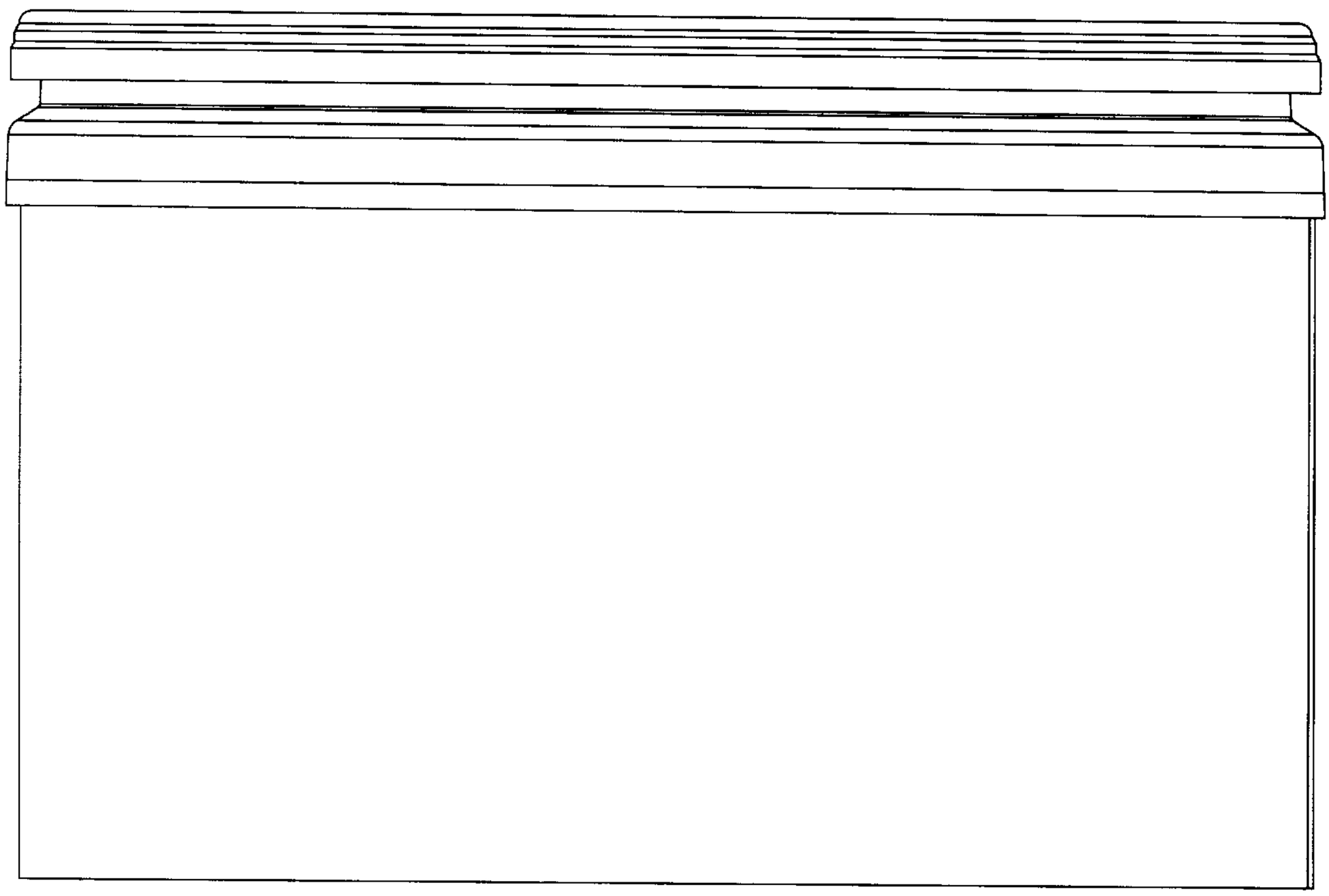


FIG. 5

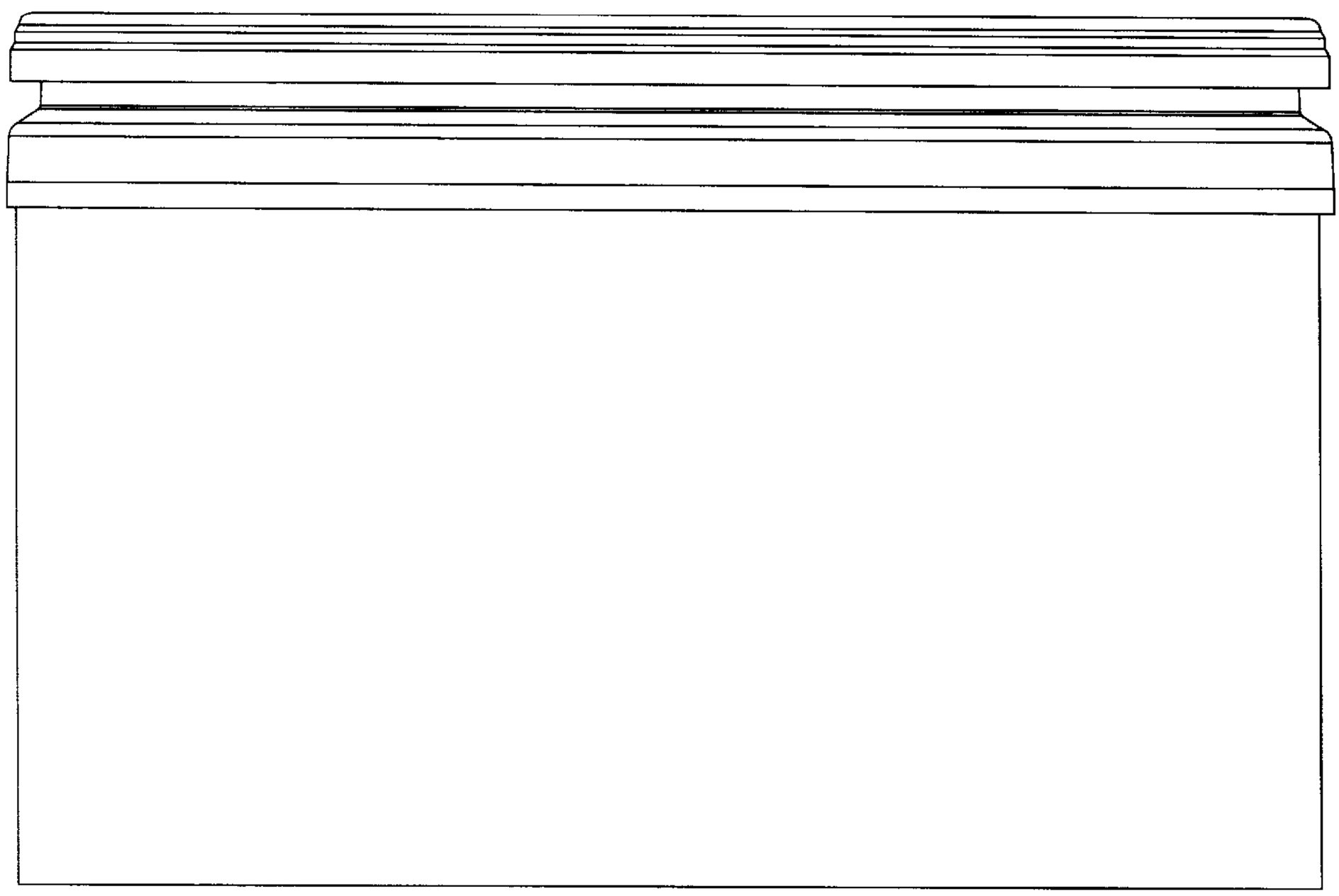


FIG. 6

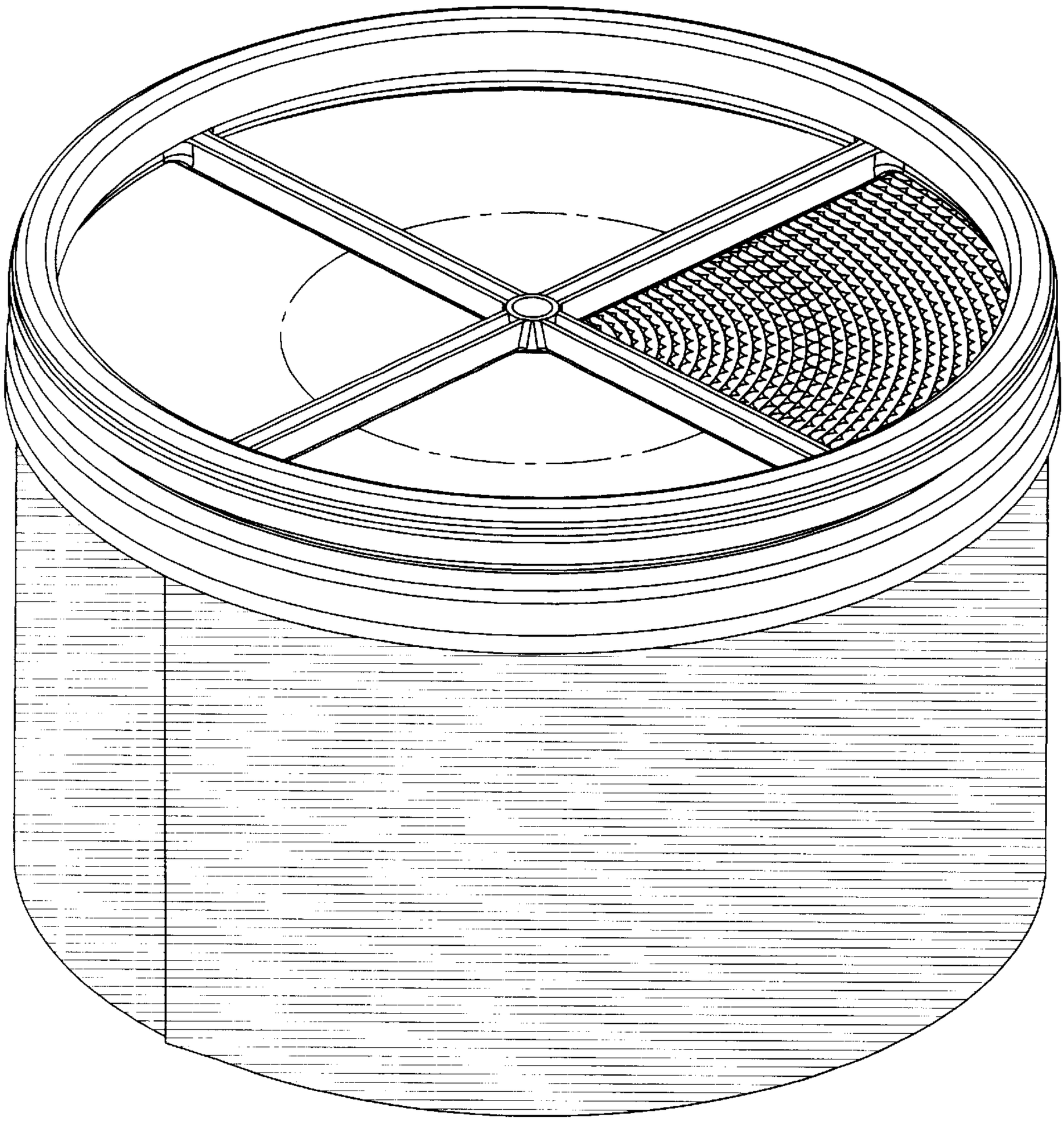


FIG. 7

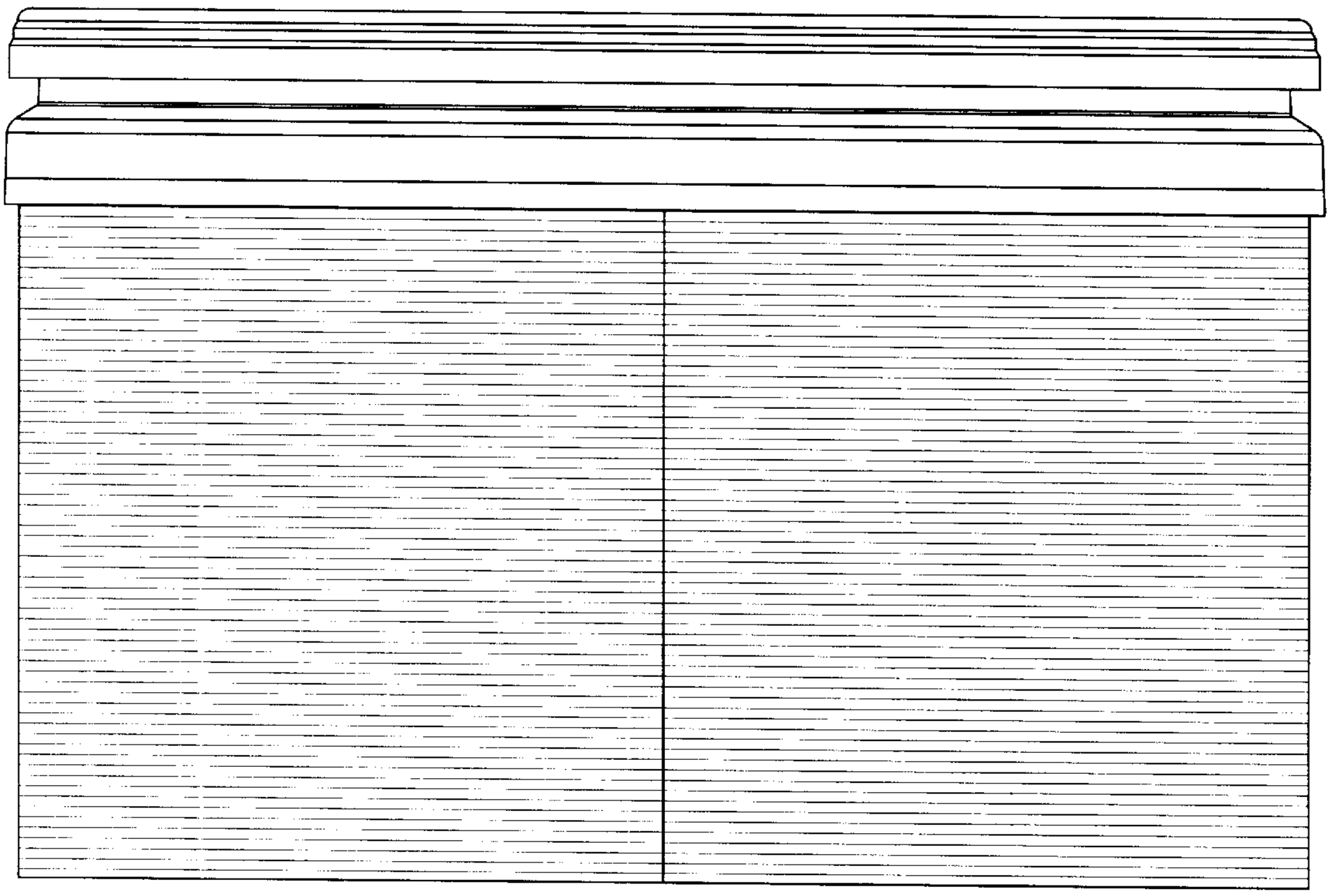


FIG. 8

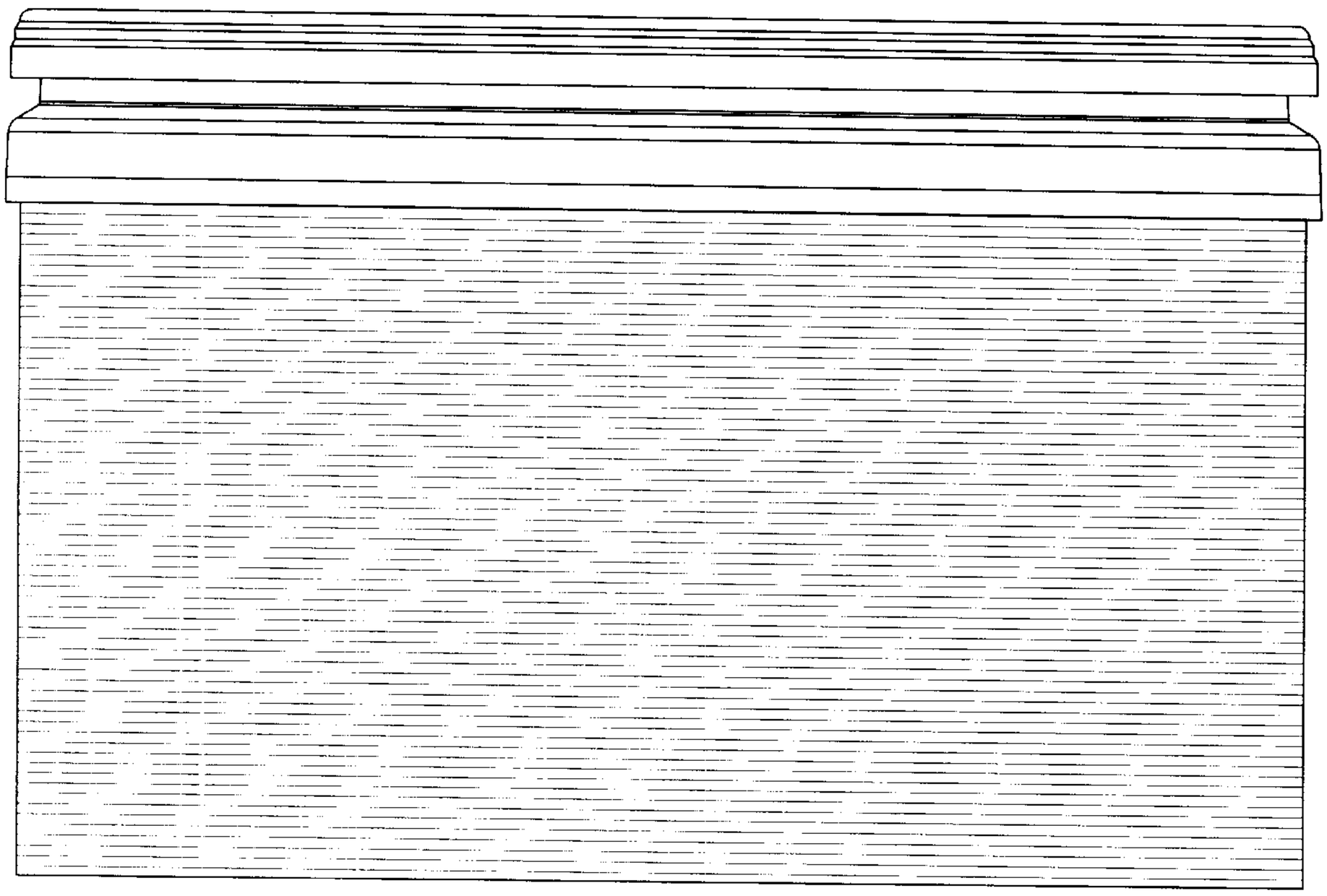


FIG. 9

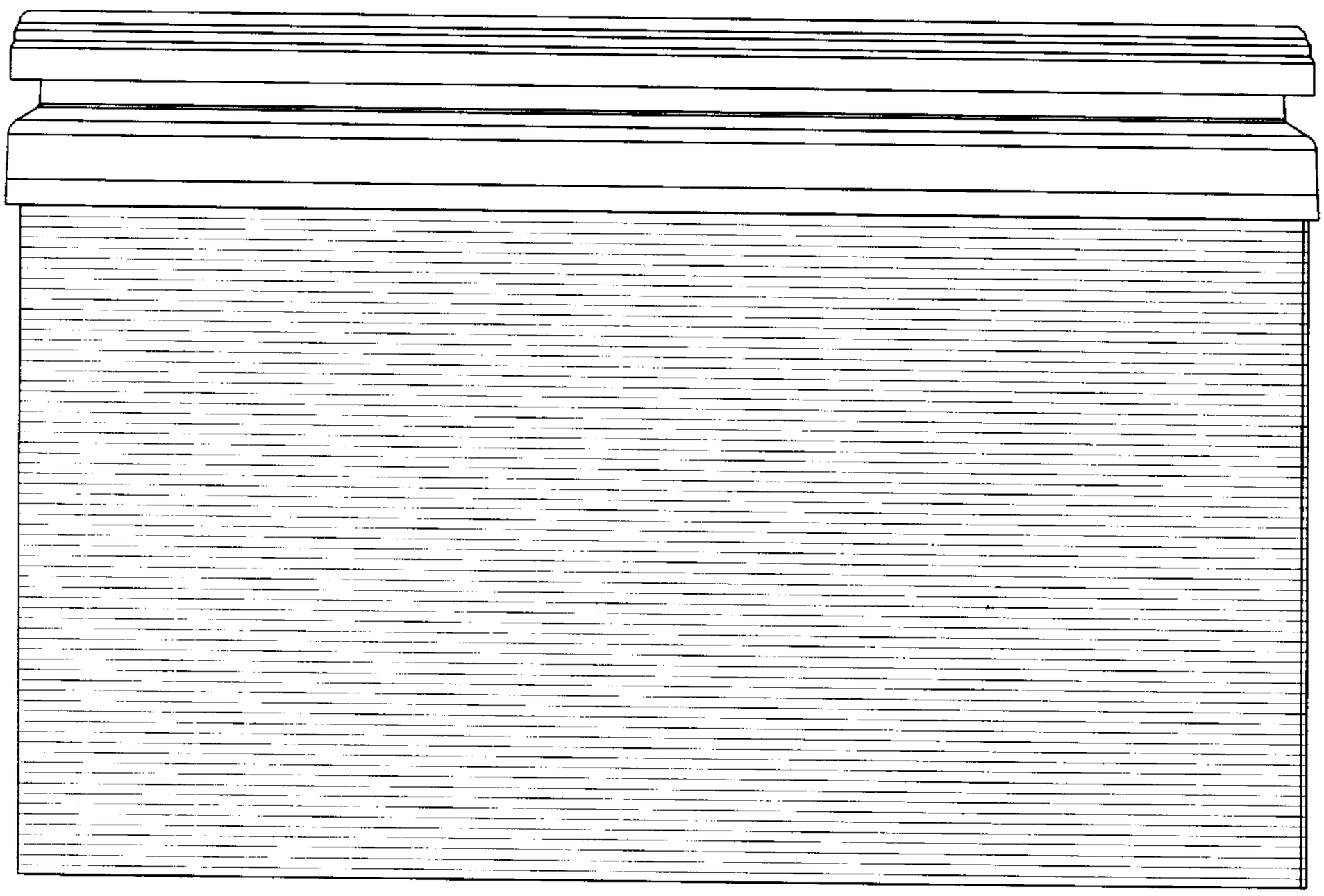


FIG. 10

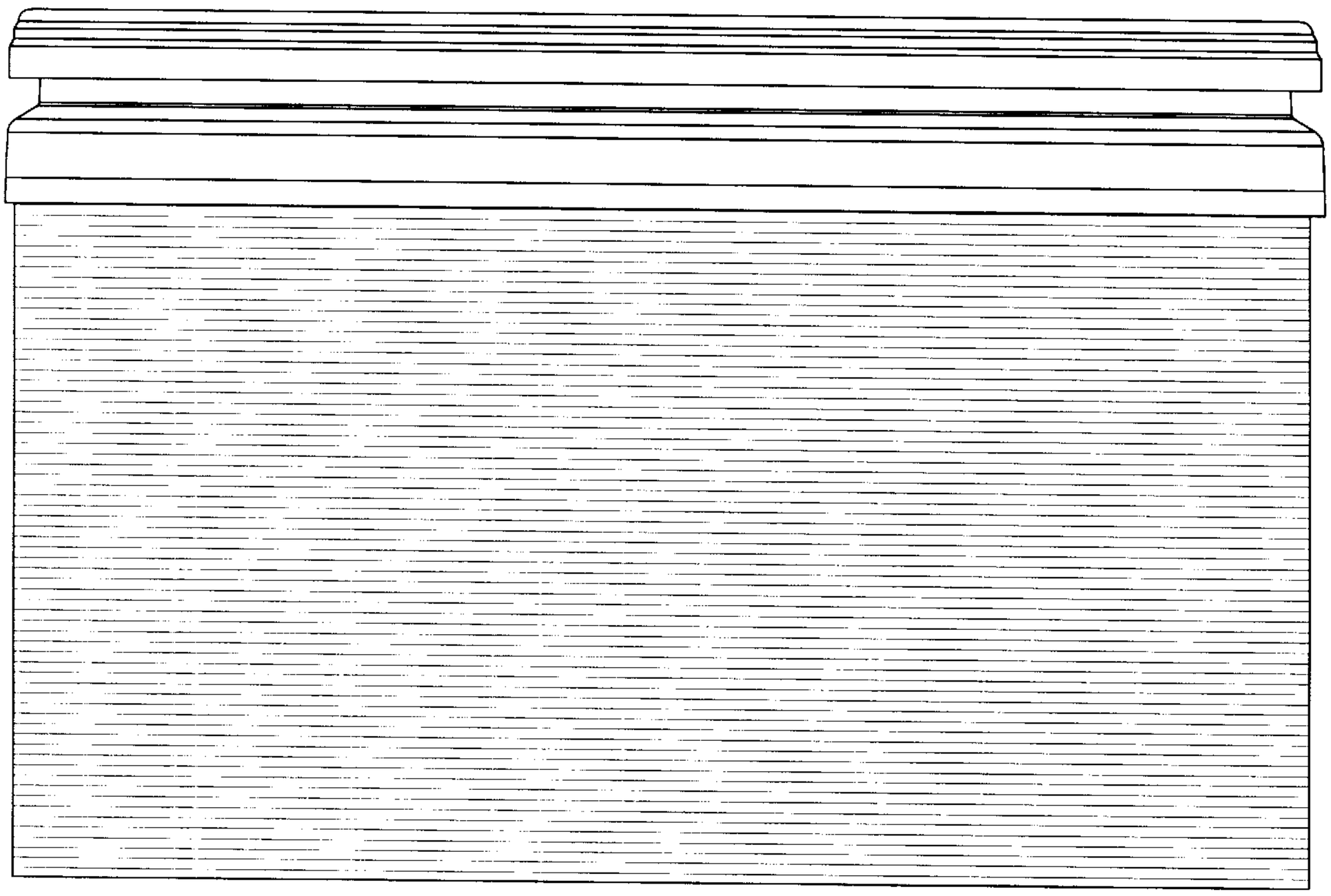


FIG. 11

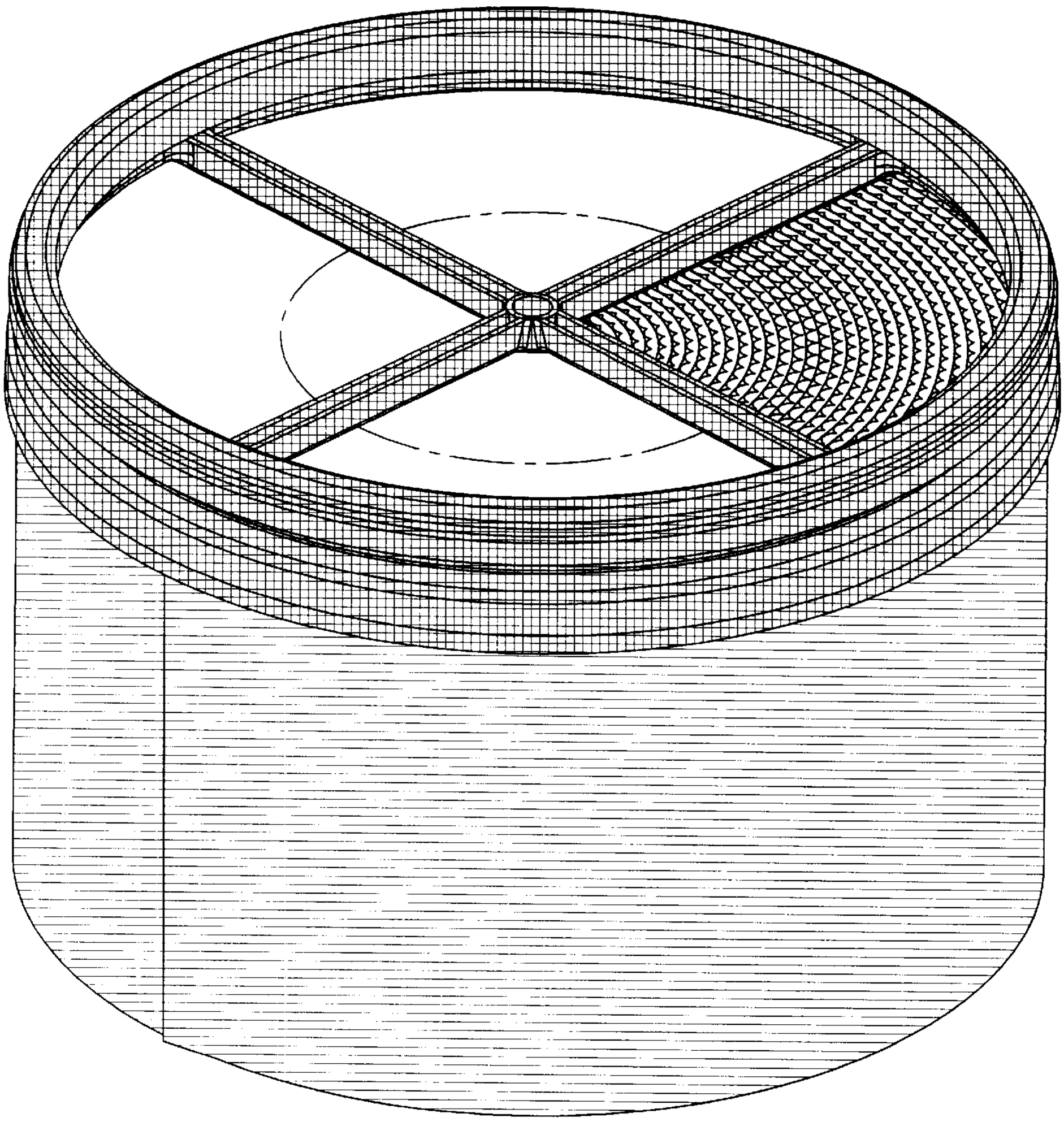


FIG. 12

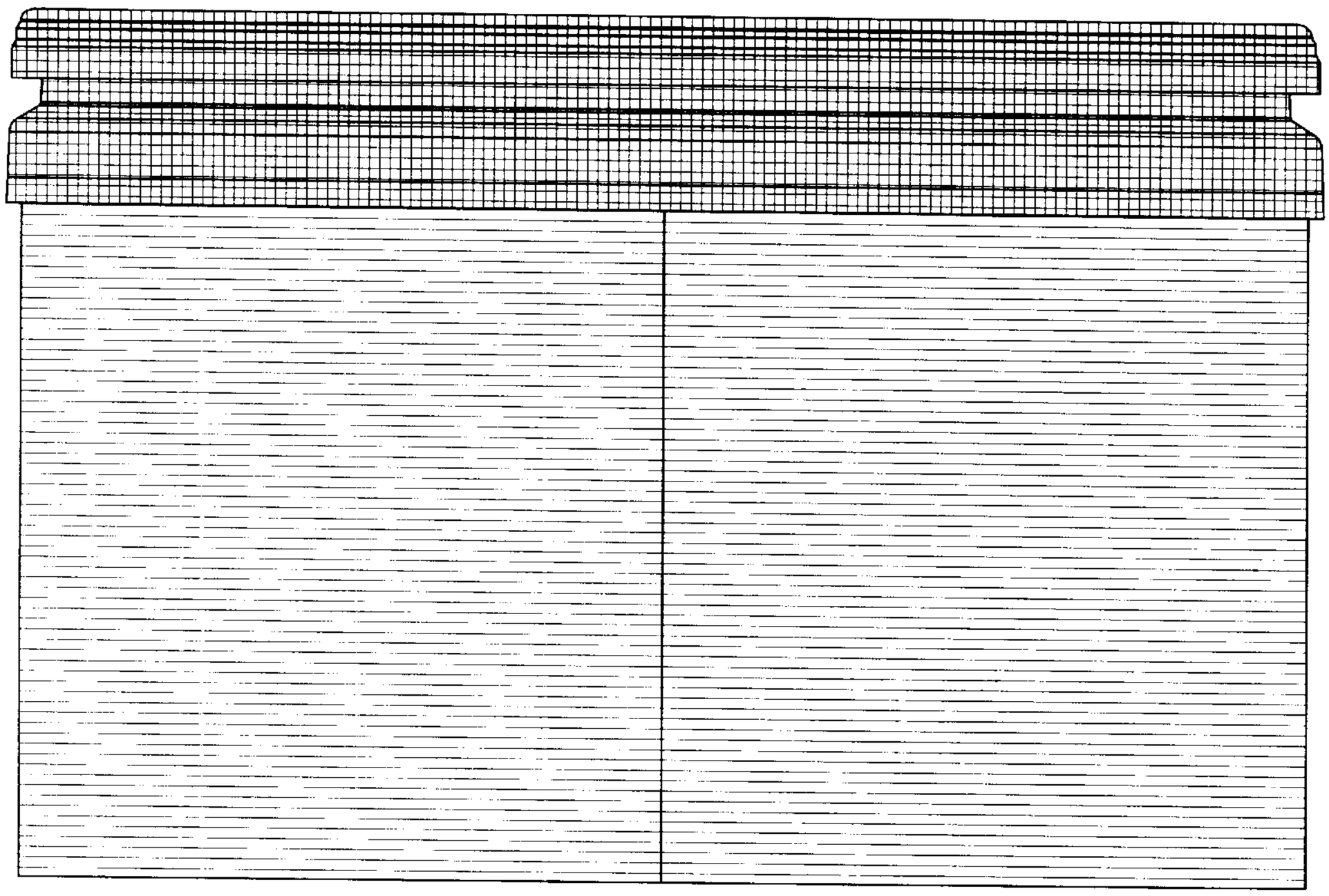


FIG. 13

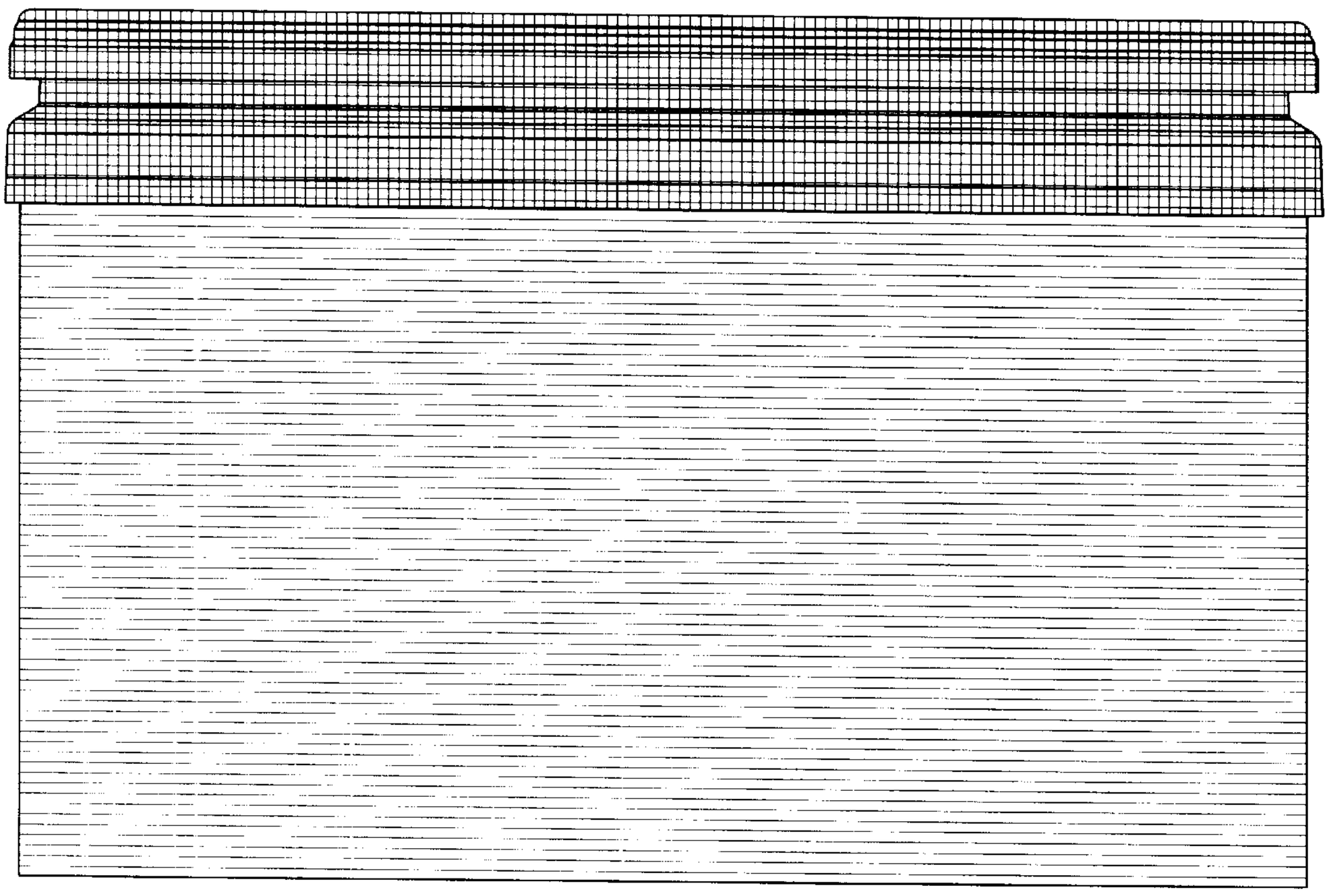


FIG. 14

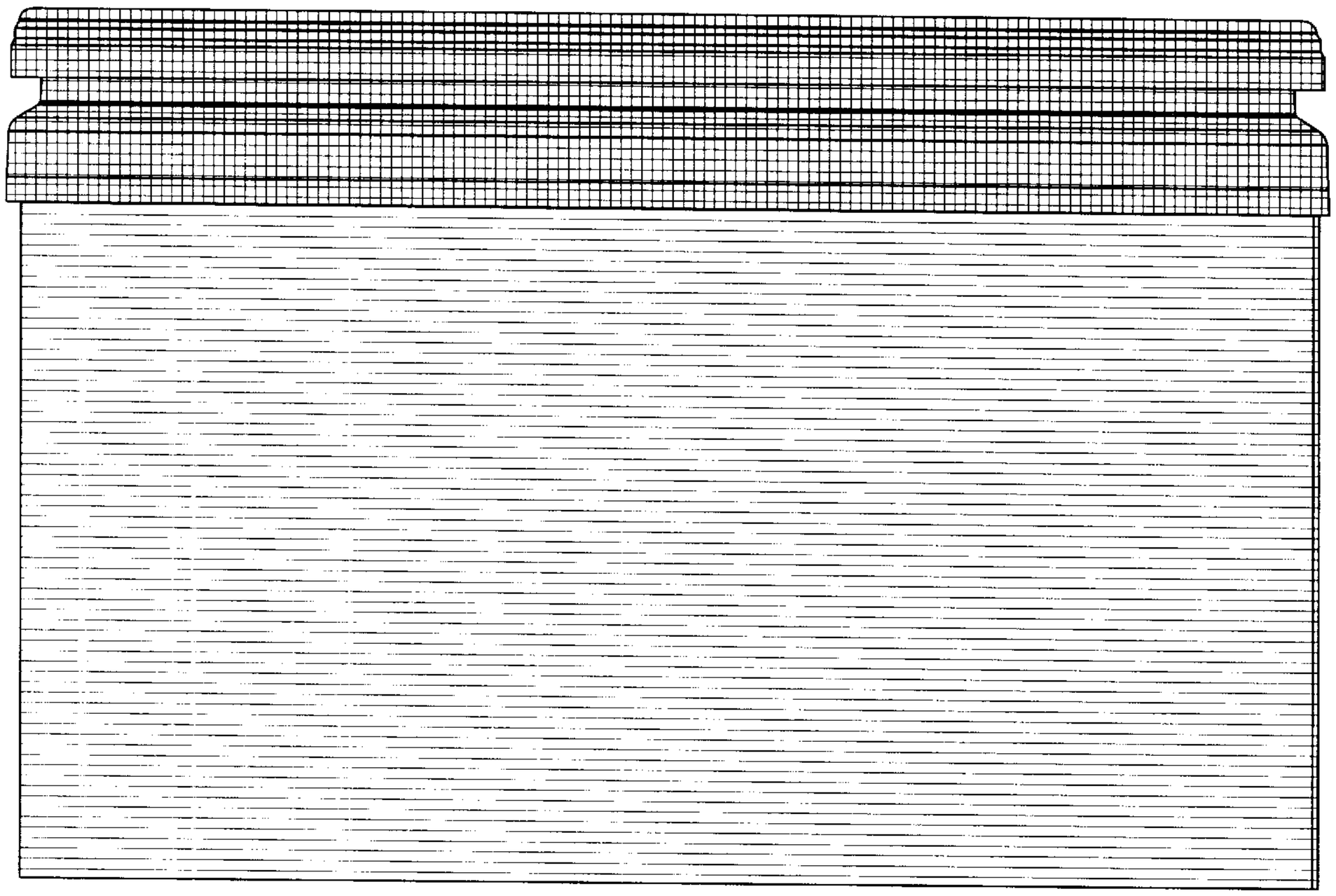


FIG. 15

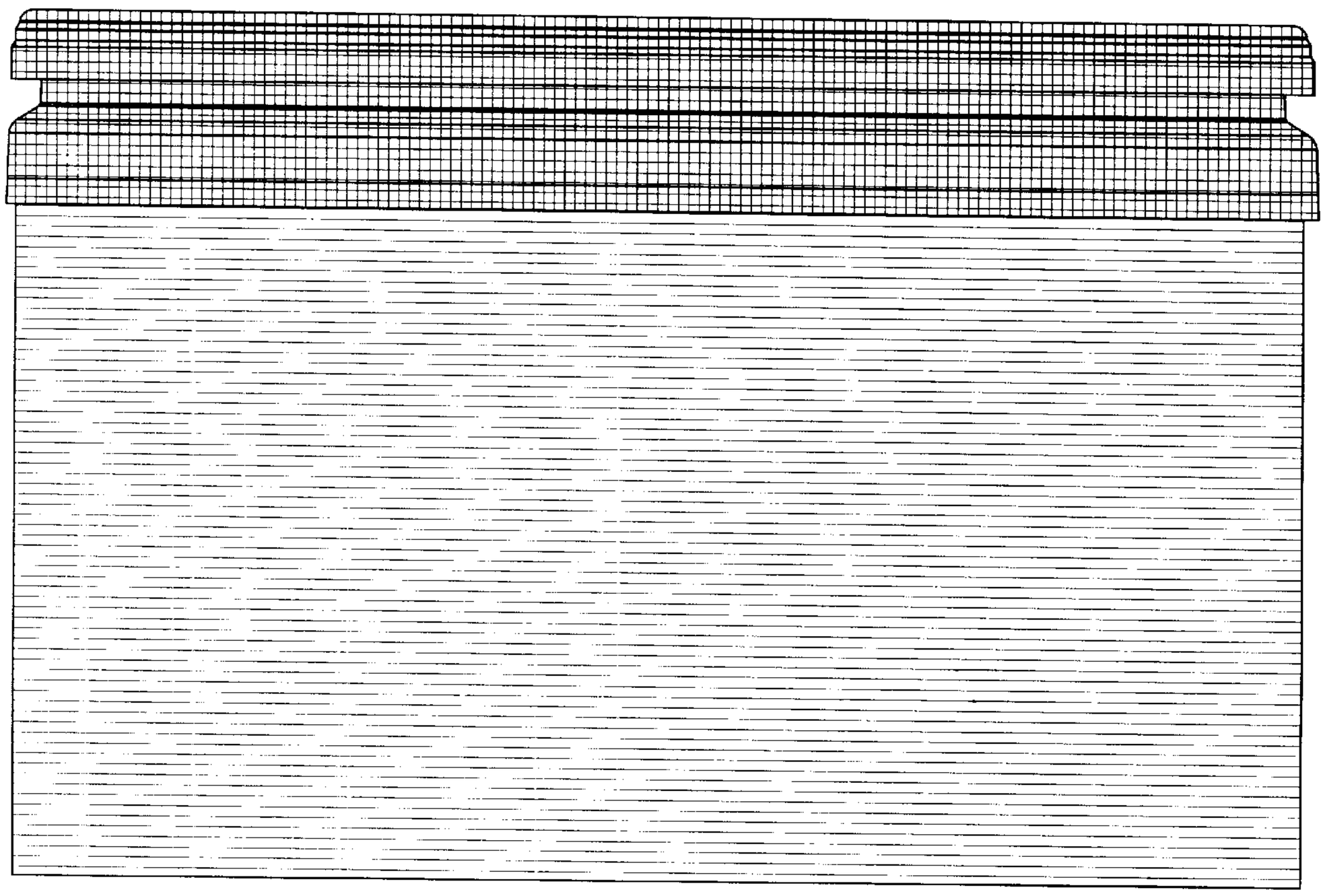


FIG. 16

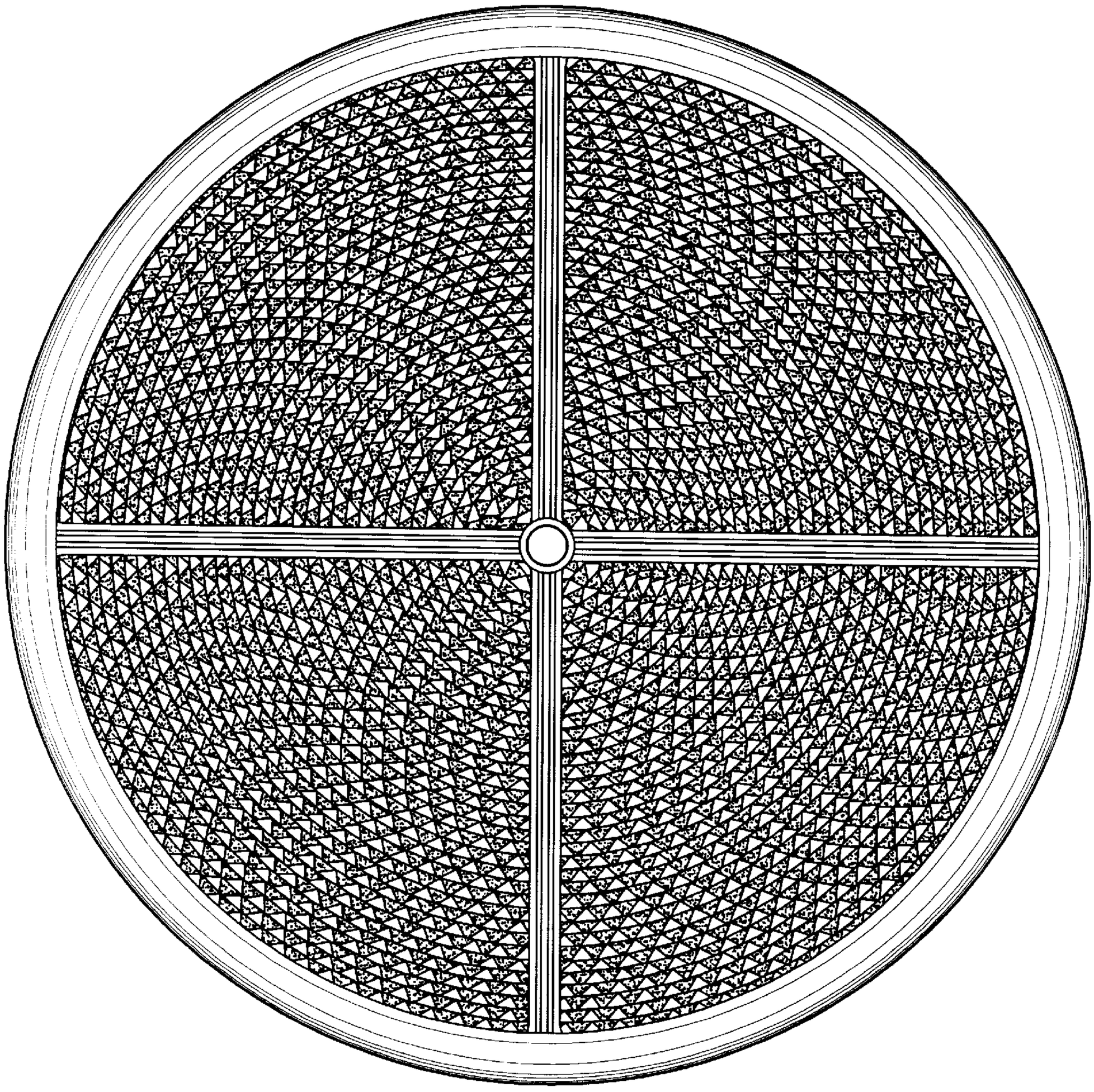


FIG. 17

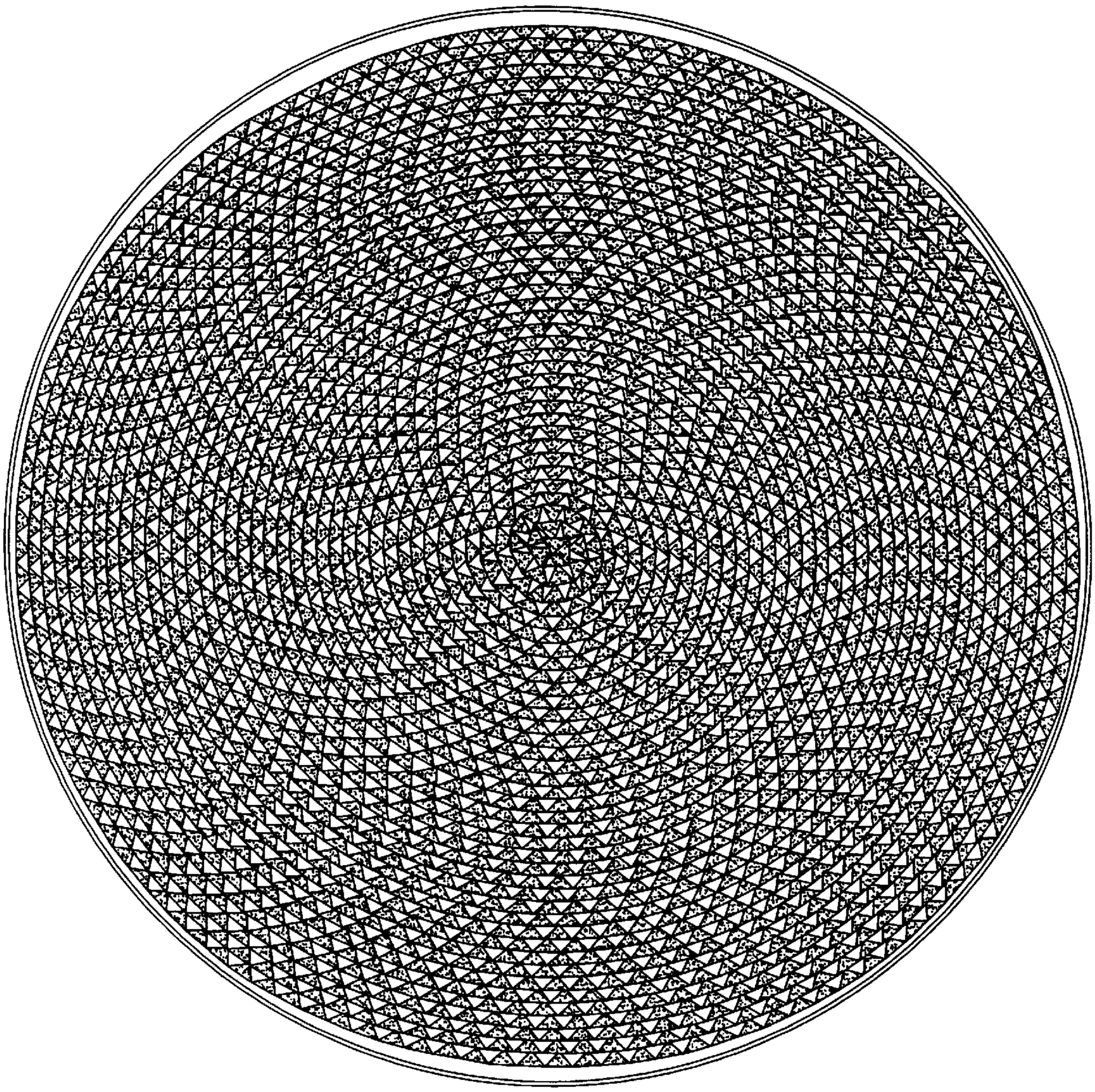


FIG. 18

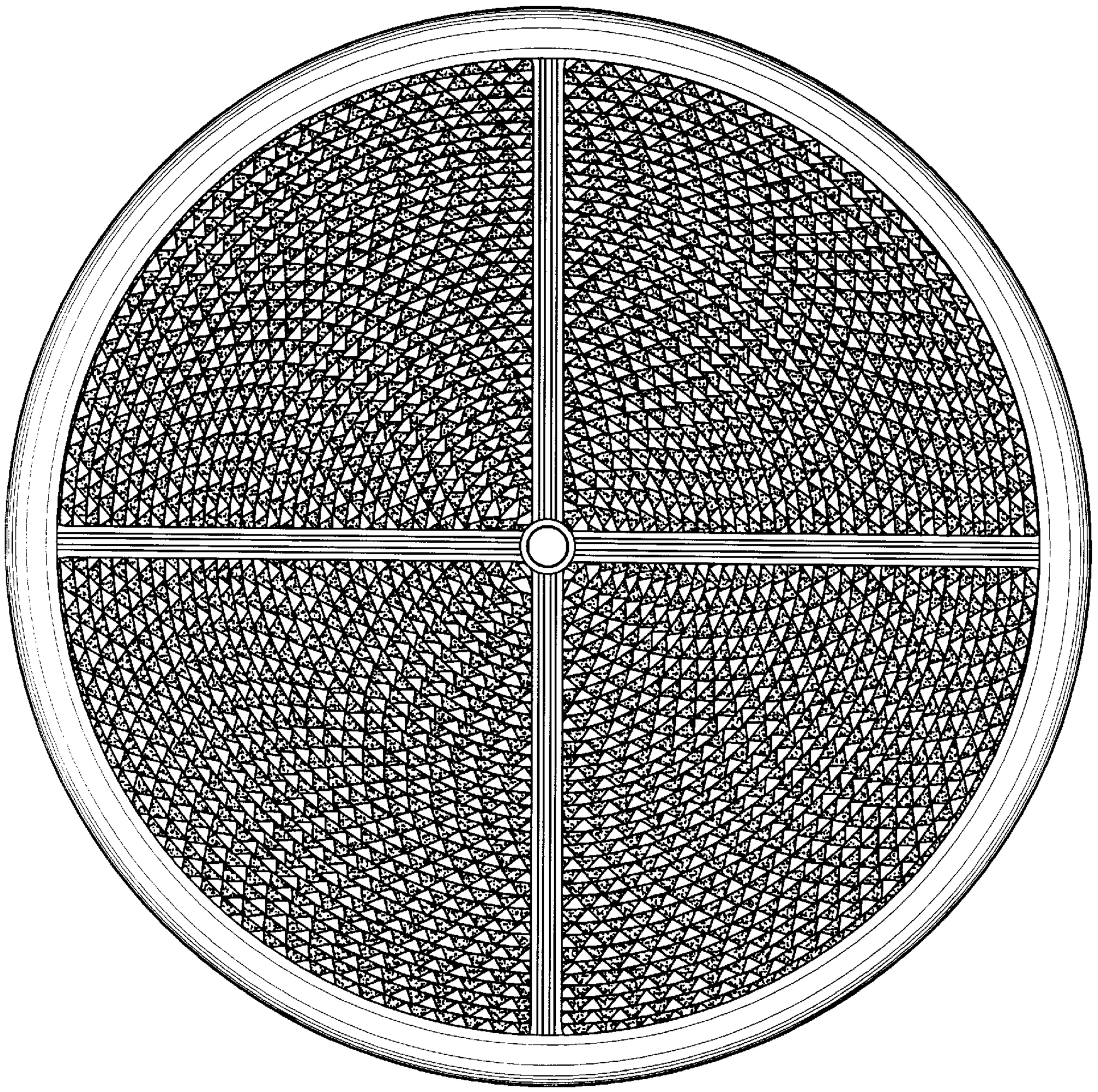


FIG. 19

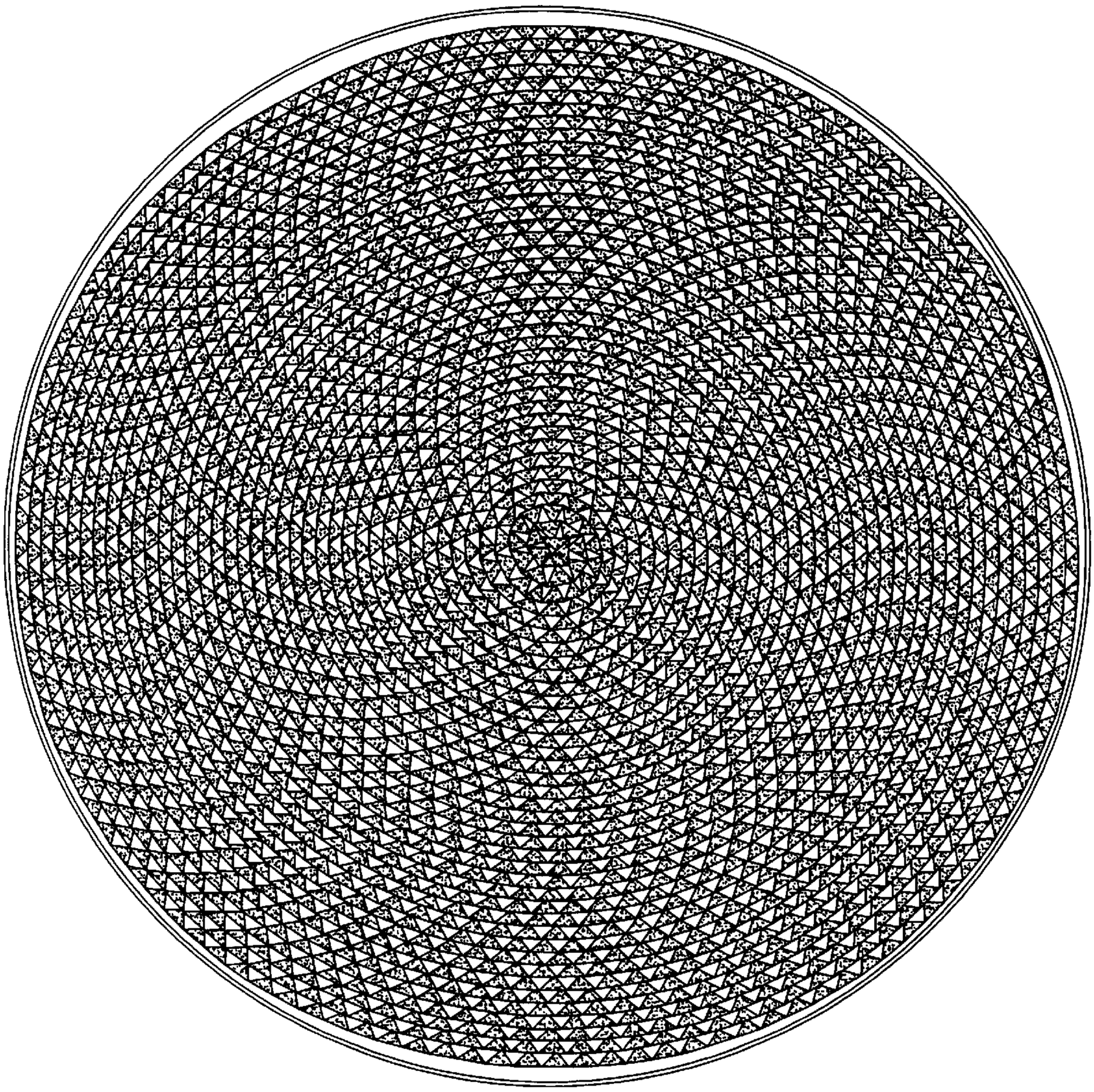


FIG. 20

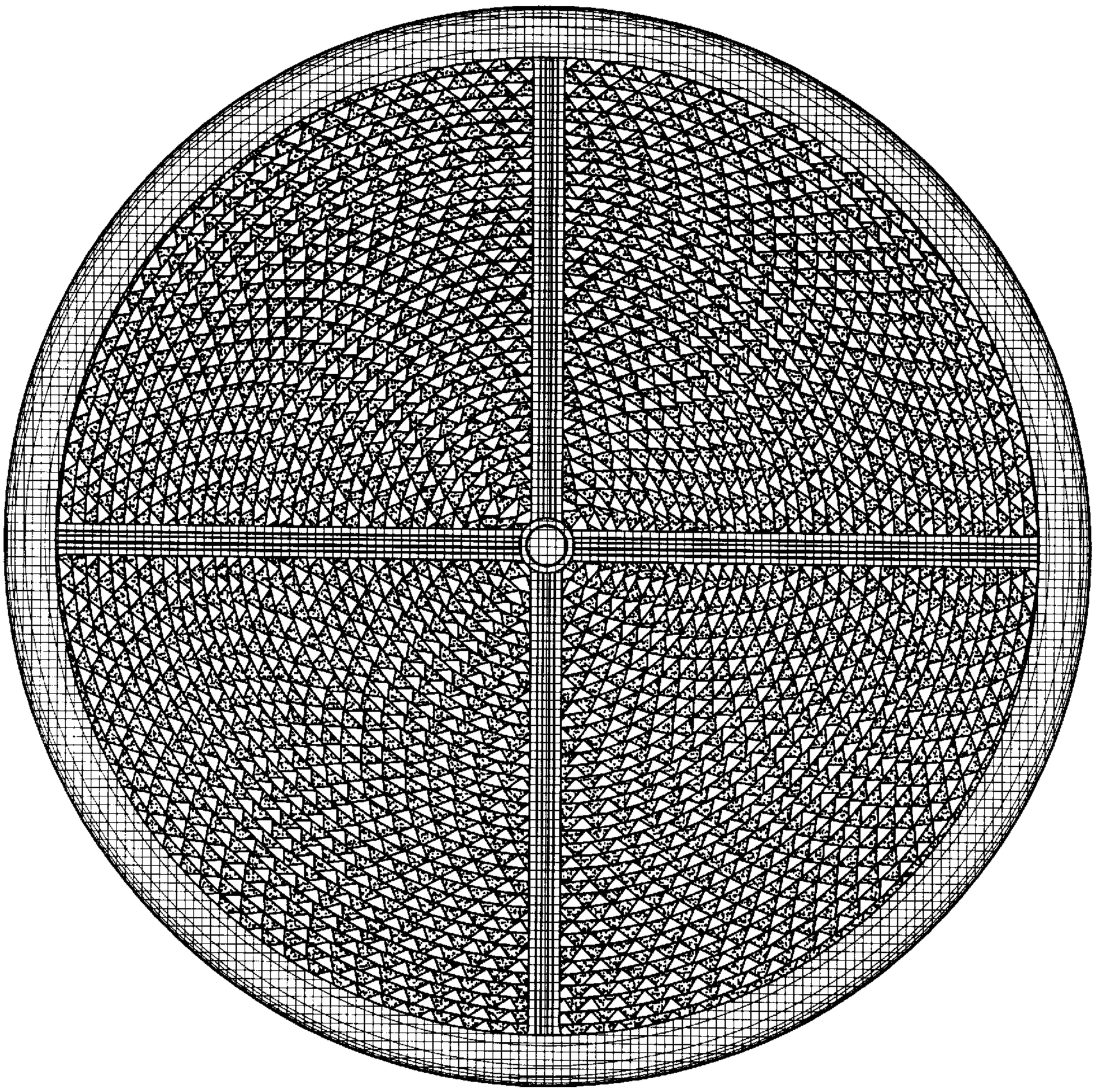


FIG. 21