



US0D1047106S

(12)

United States Design Patent

Yoo et al.

(10)

Patent No.:

US D1,047,106 S

(45)

Date of Patent:

** Oct. 15, 2024

(54) AIR PURIFIER

(71) Applicant: Samsung Electronics Co., Ltd.,
Suwon-si (KR)

(72) Inventors: Suhyun Yoo, Suwon-si (KR);
Minkyung Choi, Suwon-si (KR);
Hyunsoo Kim, Suwon-si (KR);
Cheolyeon Jo, Suwon-si (KR);
Seungmok Lee, Suwon-si (KR);
Taehan Kim, Suwon-si (KR)

(73) Assignee: Samsung Electronics Co., Ltd.,
Suwon-si (KR)

(**) Term: 15 Years

(21) Appl. No.: 29/817,652

(22) Filed: Dec. 2, 2021

(30) Foreign Application Priority Data

Oct. 8, 2021 (KR) 30-2021-0047773

(51) LOC (14) Cl. 23-04

(52) U.S. Cl.
USPC D23/364

(58) Field of Classification Search
USPC D23/332, 333, 335, 336, 342, 351, 352,
D23/355–366, 369, 370, 371, 378, 381,
D23/382, 385, 411, 412
(Continued)

(56) References Cited

U.S. PATENT DOCUMENTS

D790,050 S * 6/2017 Shin D23/364
D802,112 S * 11/2017 Jeon D23/364
(Continued)

FOREIGN PATENT DOCUMENTS

CN 308257599 * 10/2023
WO WO D217745-001 * 11/2021

Primary Examiner — Richard Edgar
Assistant Examiner — Carolyn W Davis
(74) Attorney, Agent, or Firm — NSIP Law

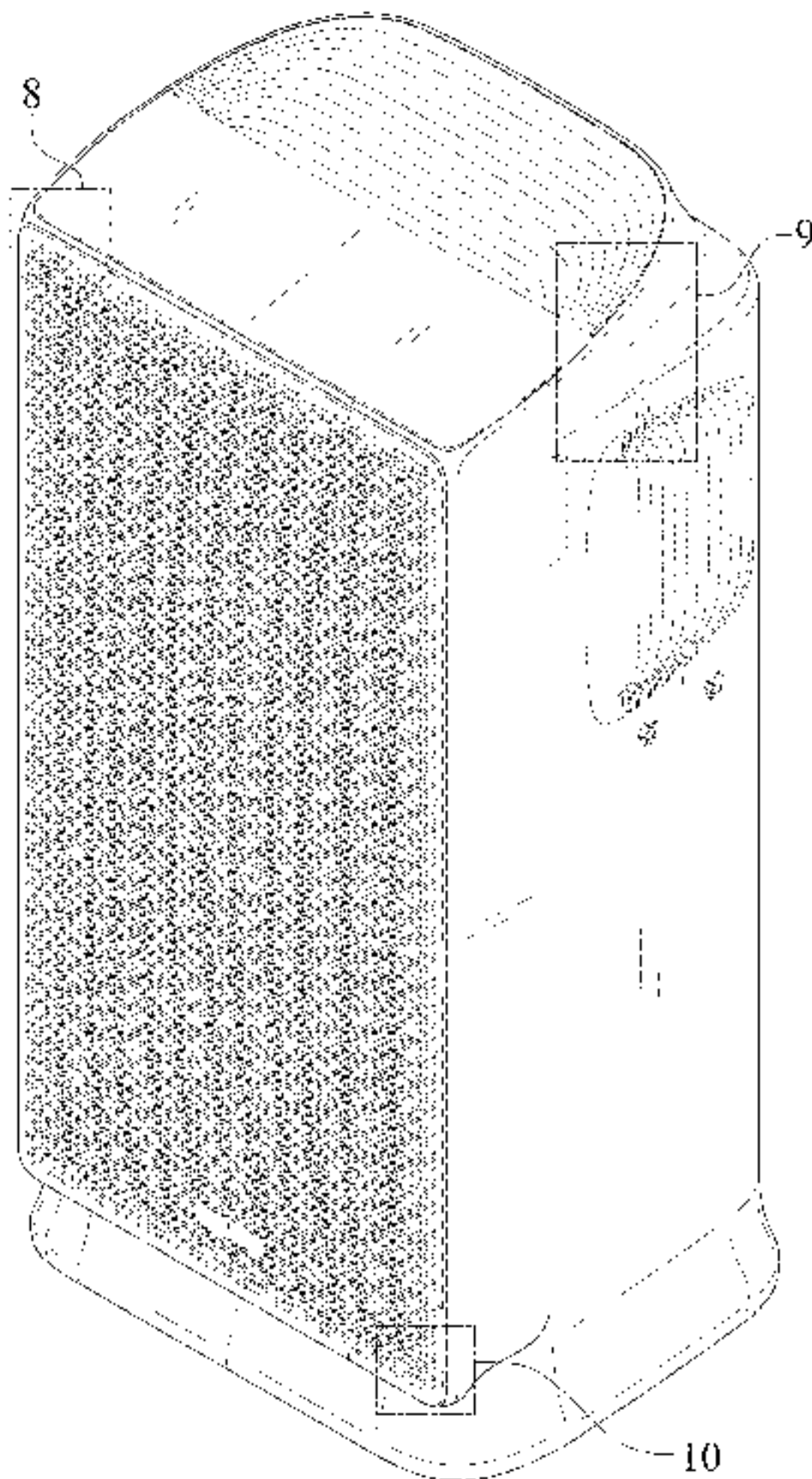
(57) CLAIM

The ornamental design for an air purifier, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of an air purifier showing our new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left-side view thereof;
FIG. 5 is a right-side view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof;
FIG. 8 is an enlarged view of the encircled portion 8 in FIG. 1;
FIG. 9 is an enlarged view of the encircled portion 9 in FIG. 1;
FIG. 10 is an enlarged view of the encircled portion 10 in FIG. 1;
FIG. 11 is an enlarged view of the encircled portion in FIG. 2;
FIG. 12 is an enlarged view of the encircled portion in FIG. 3;
FIG. 13 is an enlarged view of the encircled portion 13 in FIG. 4;
FIG. 14 is an enlarged view of the encircled portion 14 in FIG. 4;
FIG. 15 is an enlarged view of the encircled portion in FIG. 5;
FIG. 16 is an enlarged view of the encircled portion in FIG. 6;
FIG. 17 is an enlarged view of the encircled portion 17 in FIG. 7; and,
FIG. 18 is an enlarged view of the encircled portion 18 in FIG. 7.
The broken lines in the figures depict portions of the air purifier which form no part of the claimed design.

(Continued)



The dot-dash broken lines encircling portions of the claimed design that are illustrated in enlargements form no part of the claimed design.

1 Claim, 18 Drawing Sheets

(58) Field of Classification Search

CPC ... A61L 9/16; A61L 9/22; B03C 3/155; B03C 3/368; B01D 2221/02; B01D 2259/4508; B01D 47/00; B01D 47/027; F24F 3/16; F24F 13/20; F24F 13/28; F04D 25/084; F04D 25/0673; F04D 25/166; F04D 29/424

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D810,907	S	*	2/2018	Yoon	.....	D23/364
D827,799	S	*	9/2018	Shin	.....	D23/364
D861,145	S	*	9/2019	Fang	.....	D23/333
D878,530	S	*	3/2020	Pan	.....	D23/364
D879,273	S	*	3/2020	Shih	.....	D23/364
D895,093	S	*	9/2020	Nakamura	.....	D23/364
D900,290	S	*	10/2020	Shin	.....	D23/364
D928,299	S	*	8/2021	Chen	.....	D23/364
D930,804	S	*	9/2021	Kyung	.....	D23/364
D943,724	S	*	2/2022	Nikitas	.....	D23/364
D986,398	S	*	5/2023	Li	.....	D23/364
D1,003,414	S	*	10/2023	Tang	.....	D23/359
2019/0049127	A1	*	2/2019	Shin	.....	F24F 1/02
2022/0003453	A1	*	1/2022	Park	.....	F16B 21/165

* cited by examiner

FIG. 1

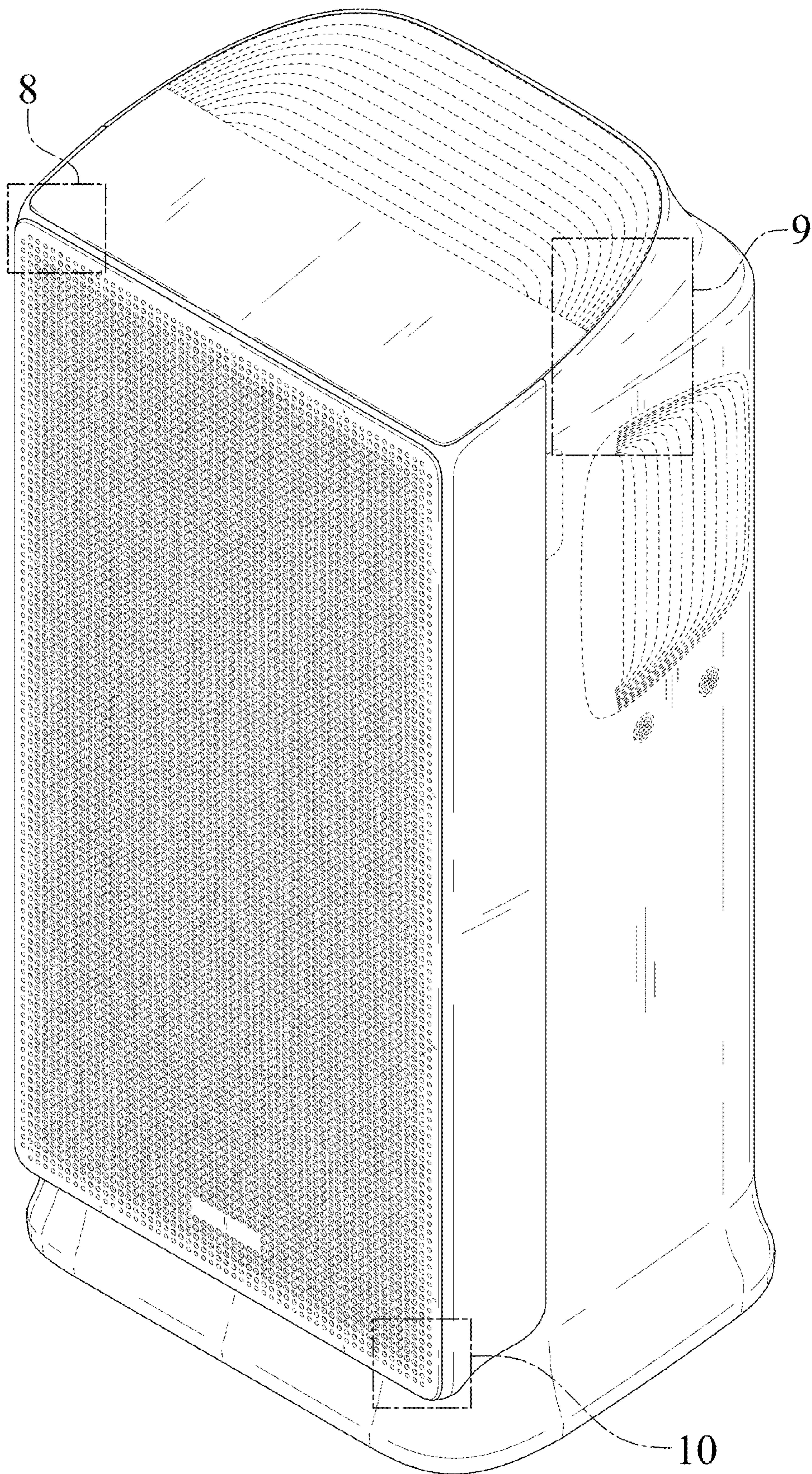


FIG. 2

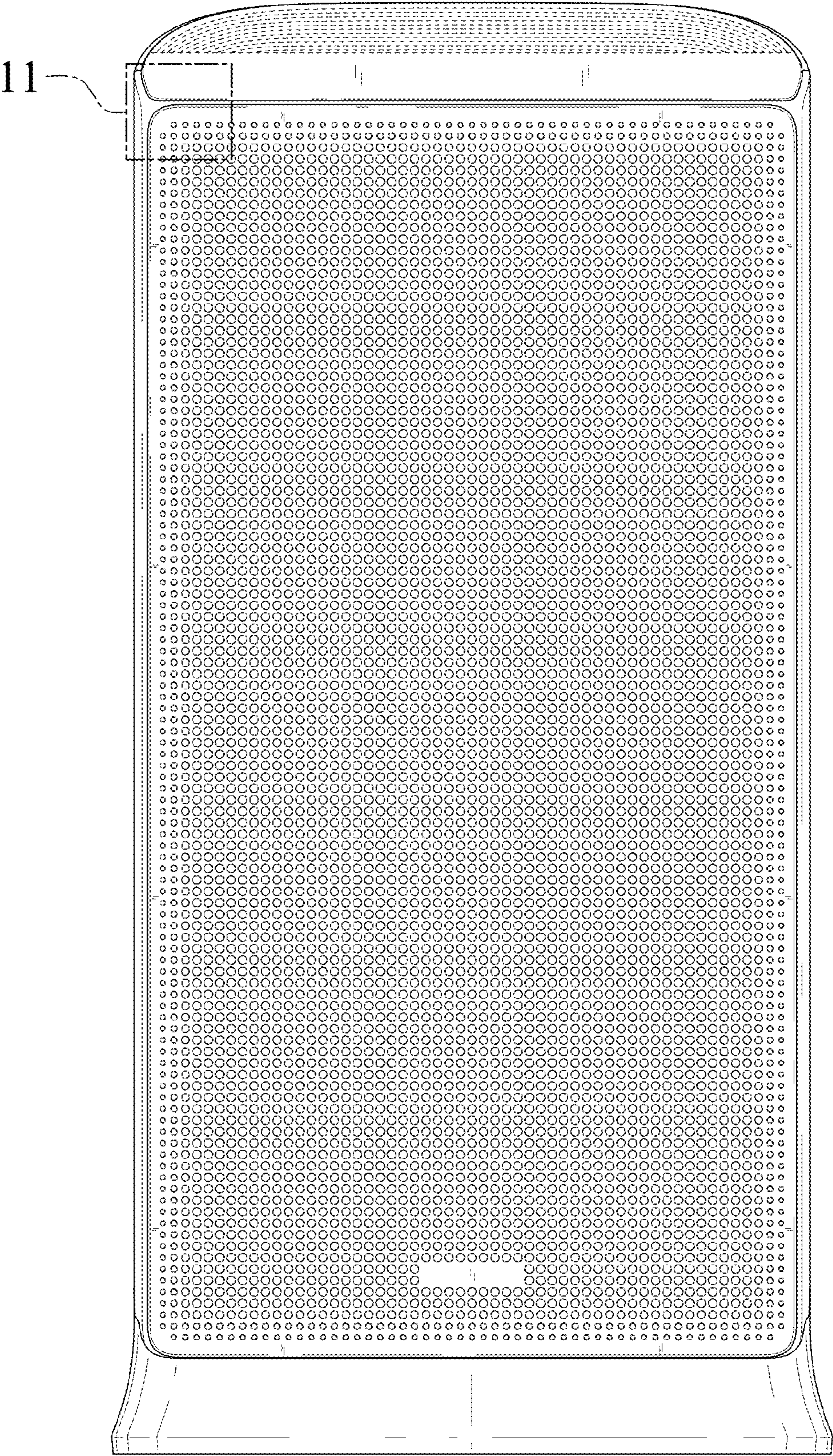


FIG. 3

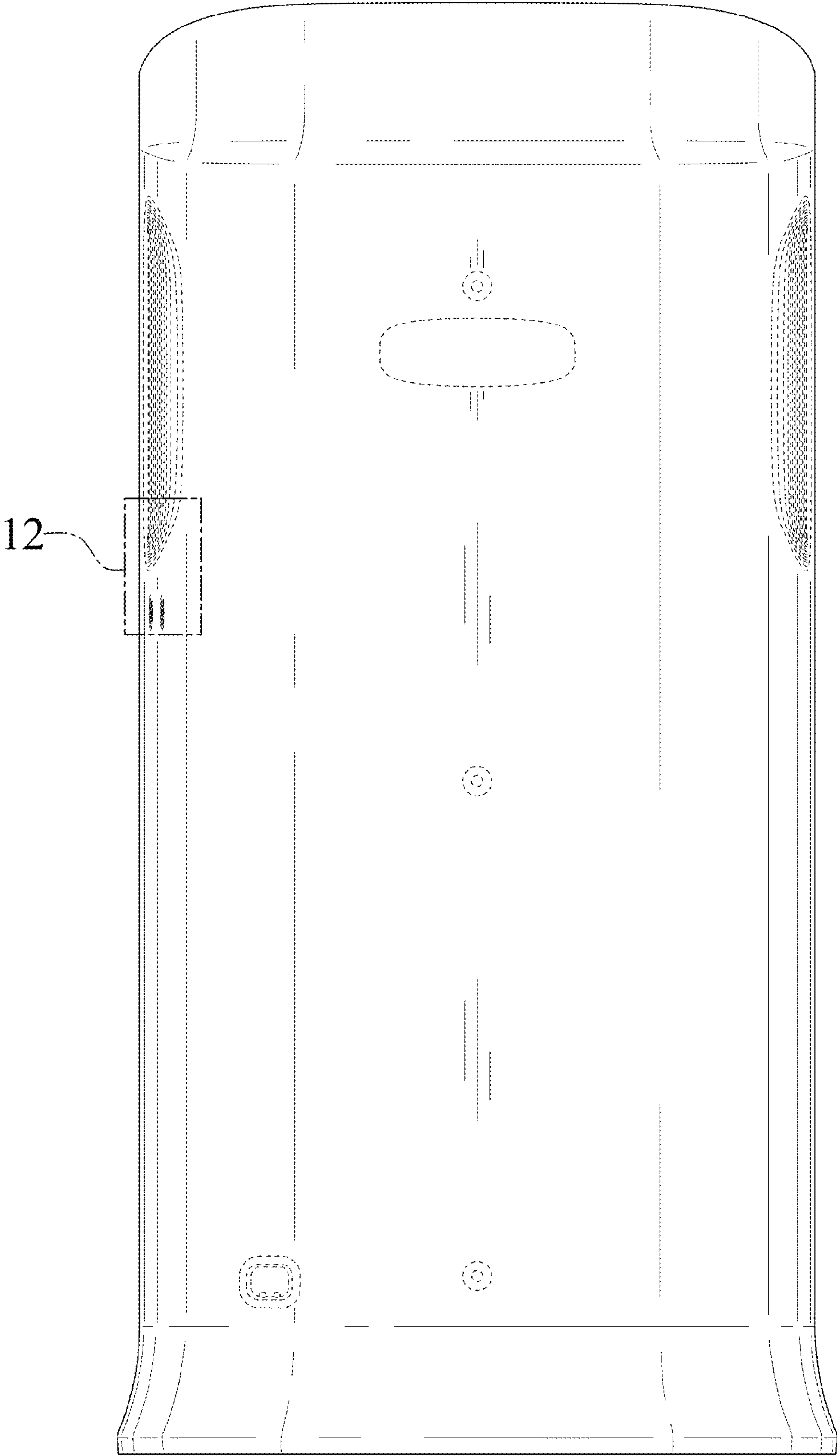


FIG. 4

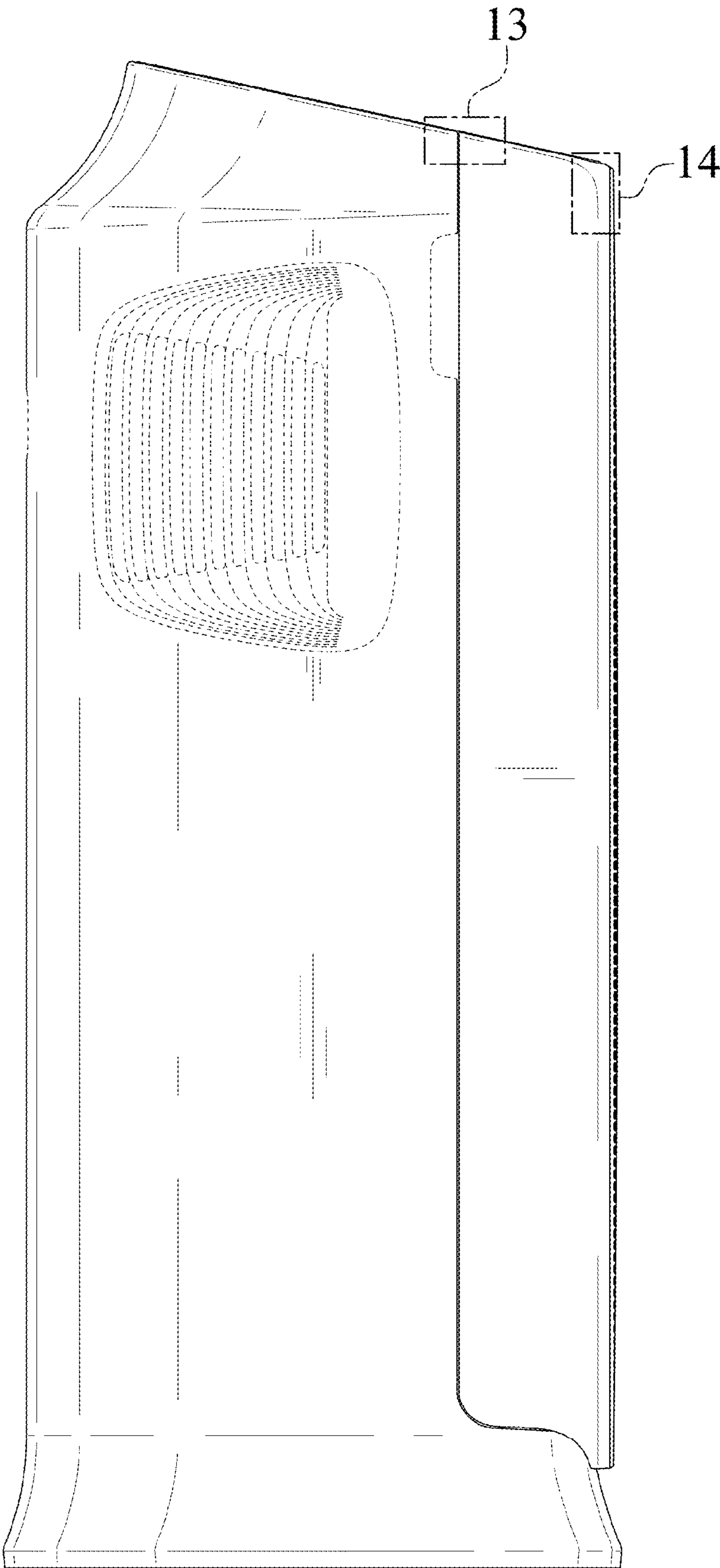


FIG. 5

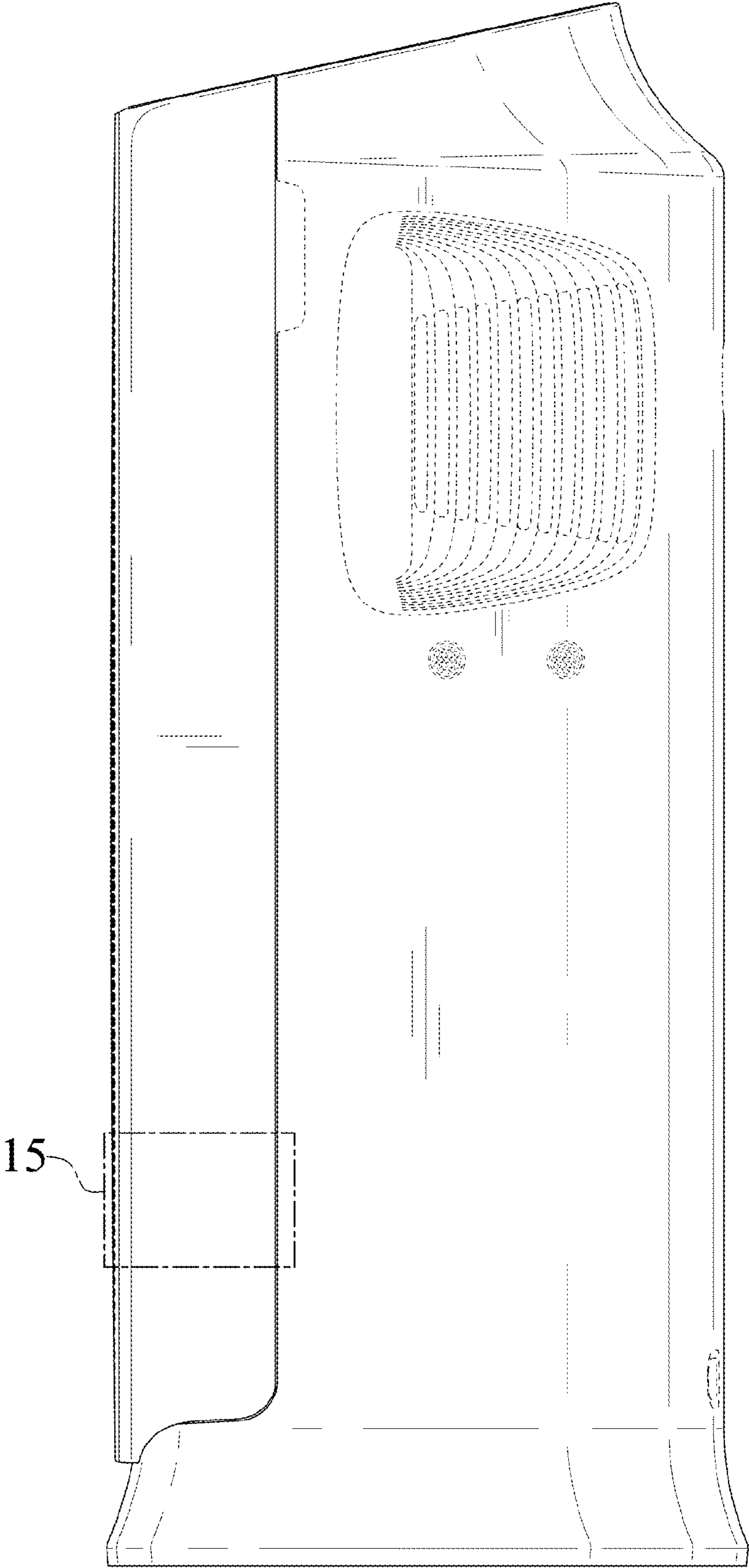


FIG. 6

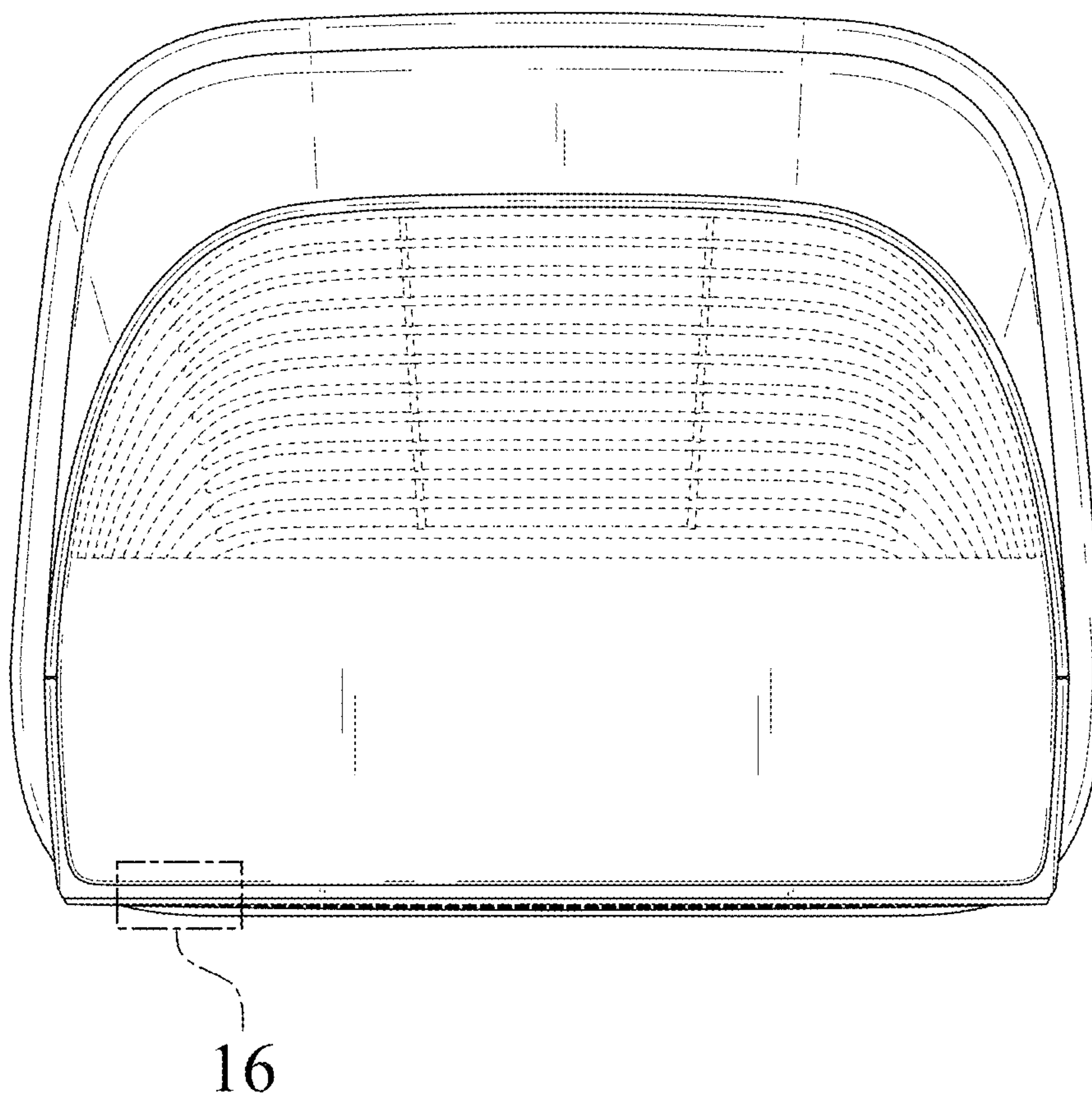


FIG. 7

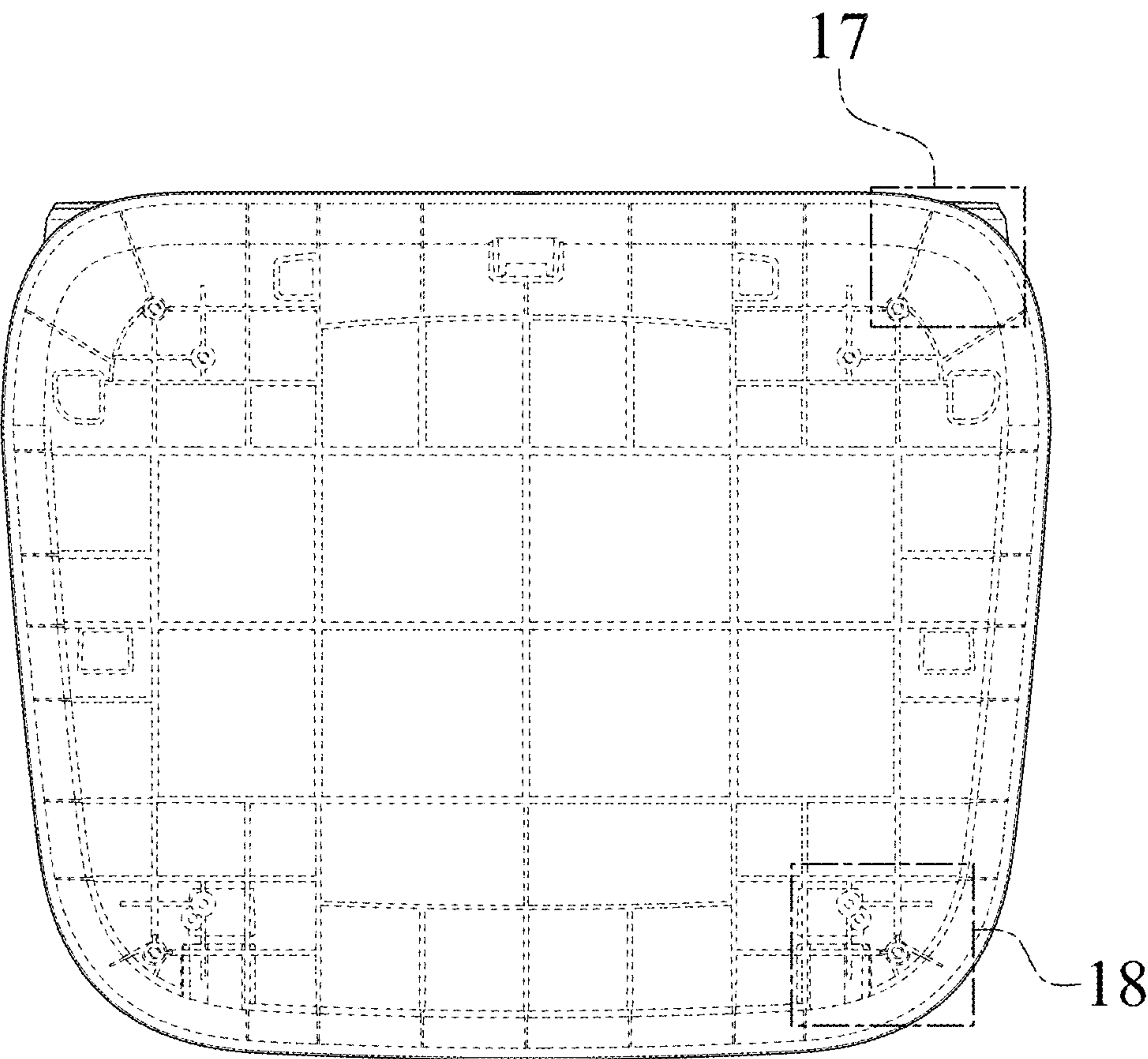


FIG. 8

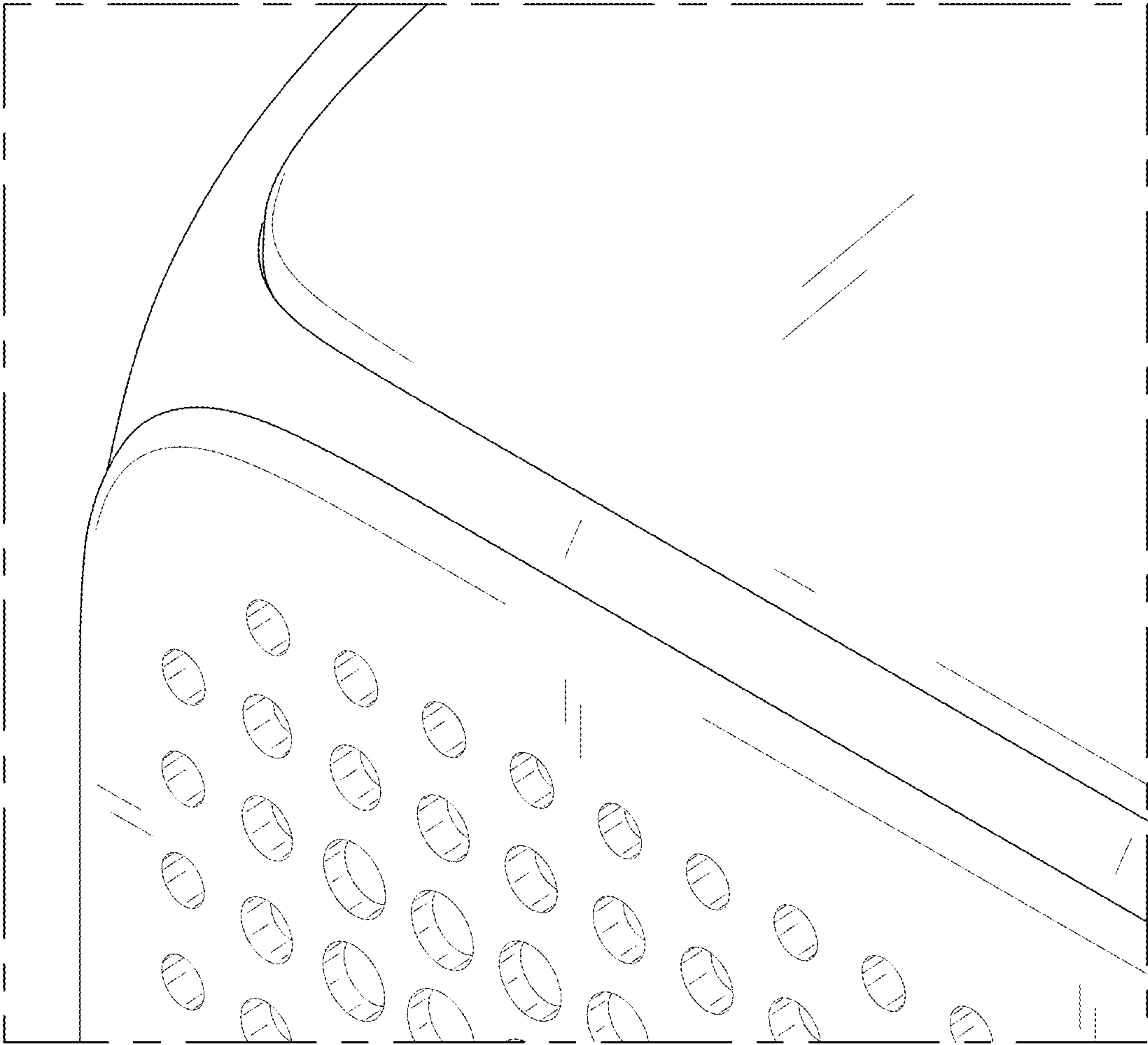


FIG. 9

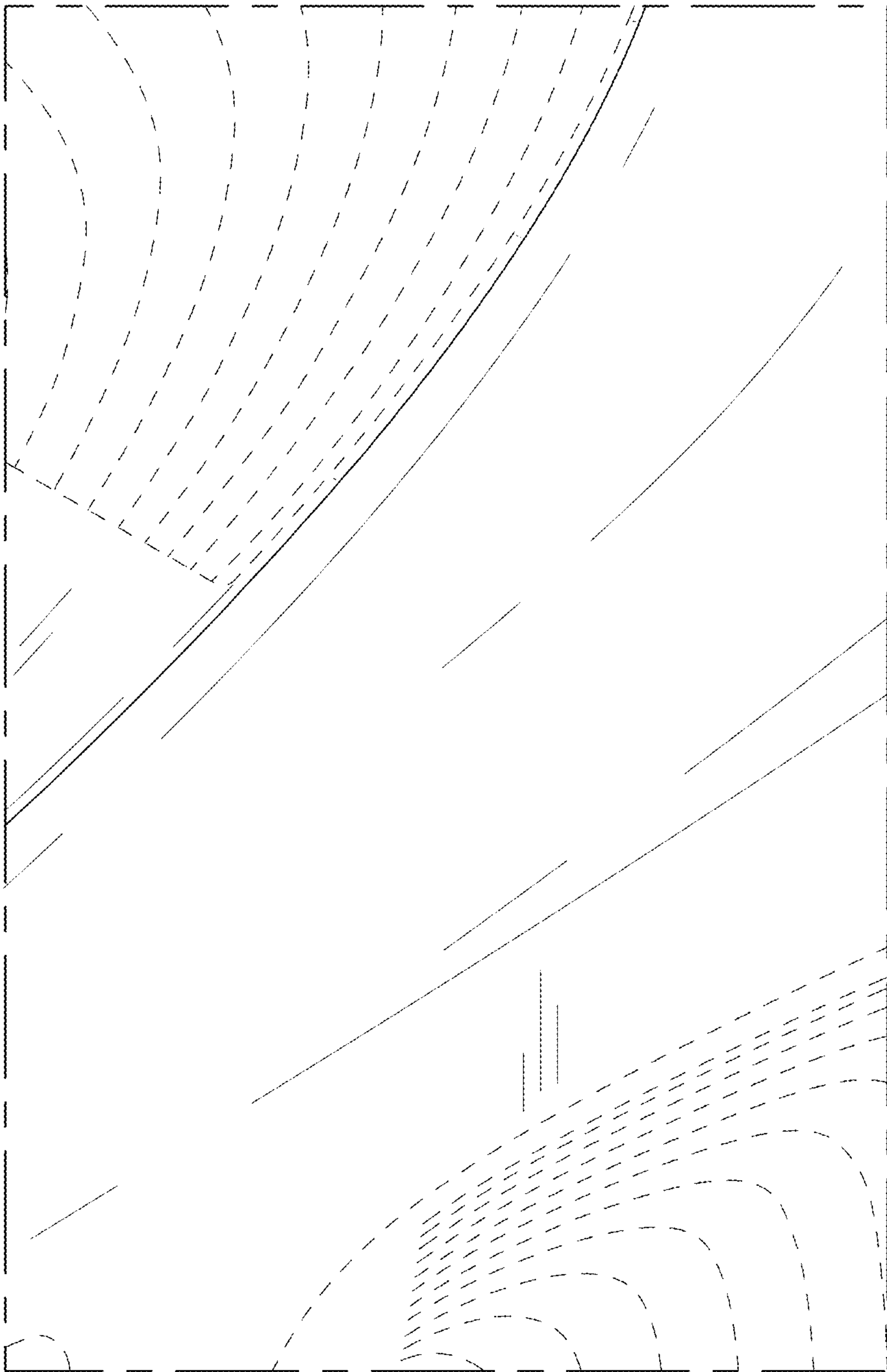


FIG. 10

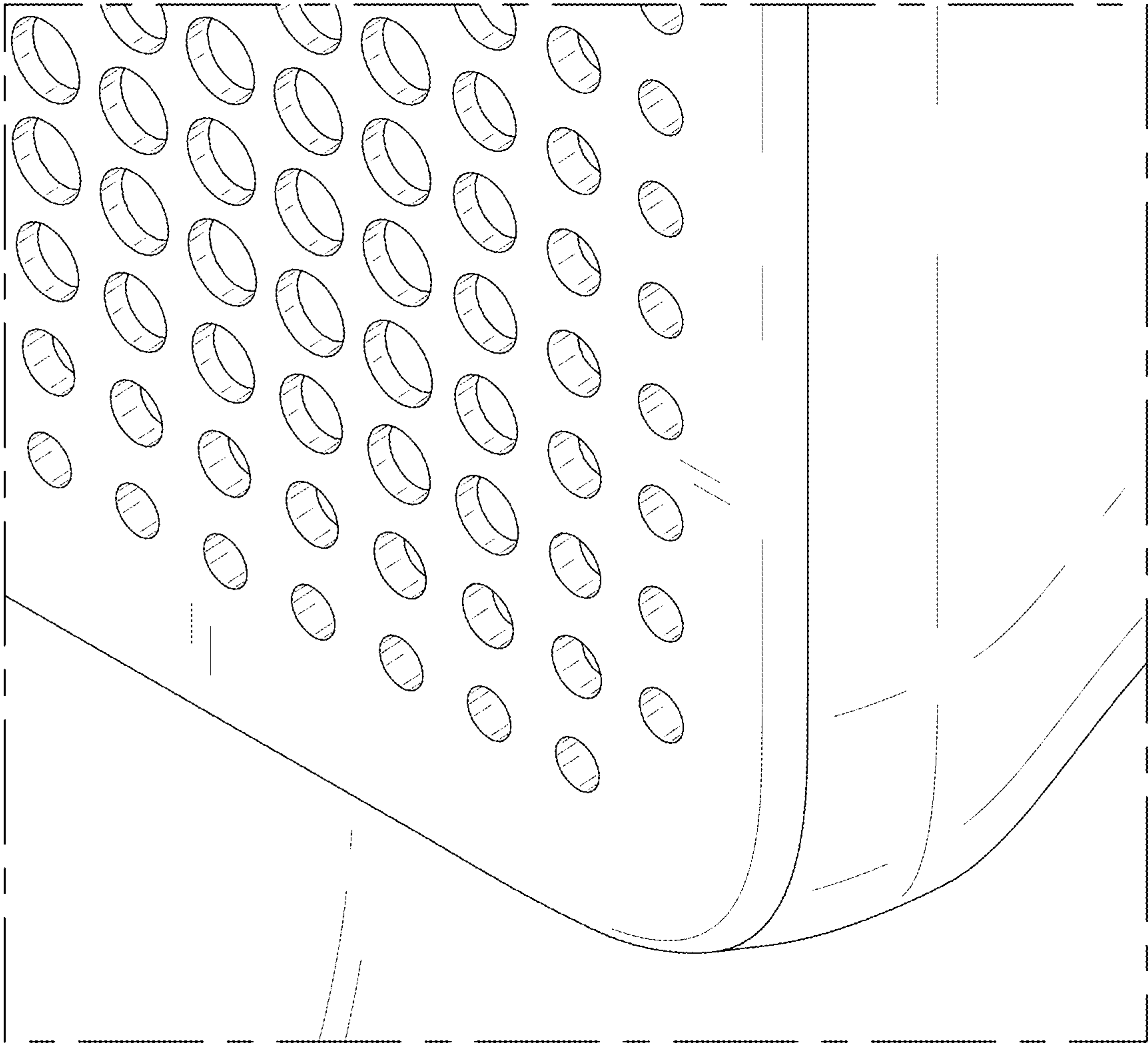


FIG. 11

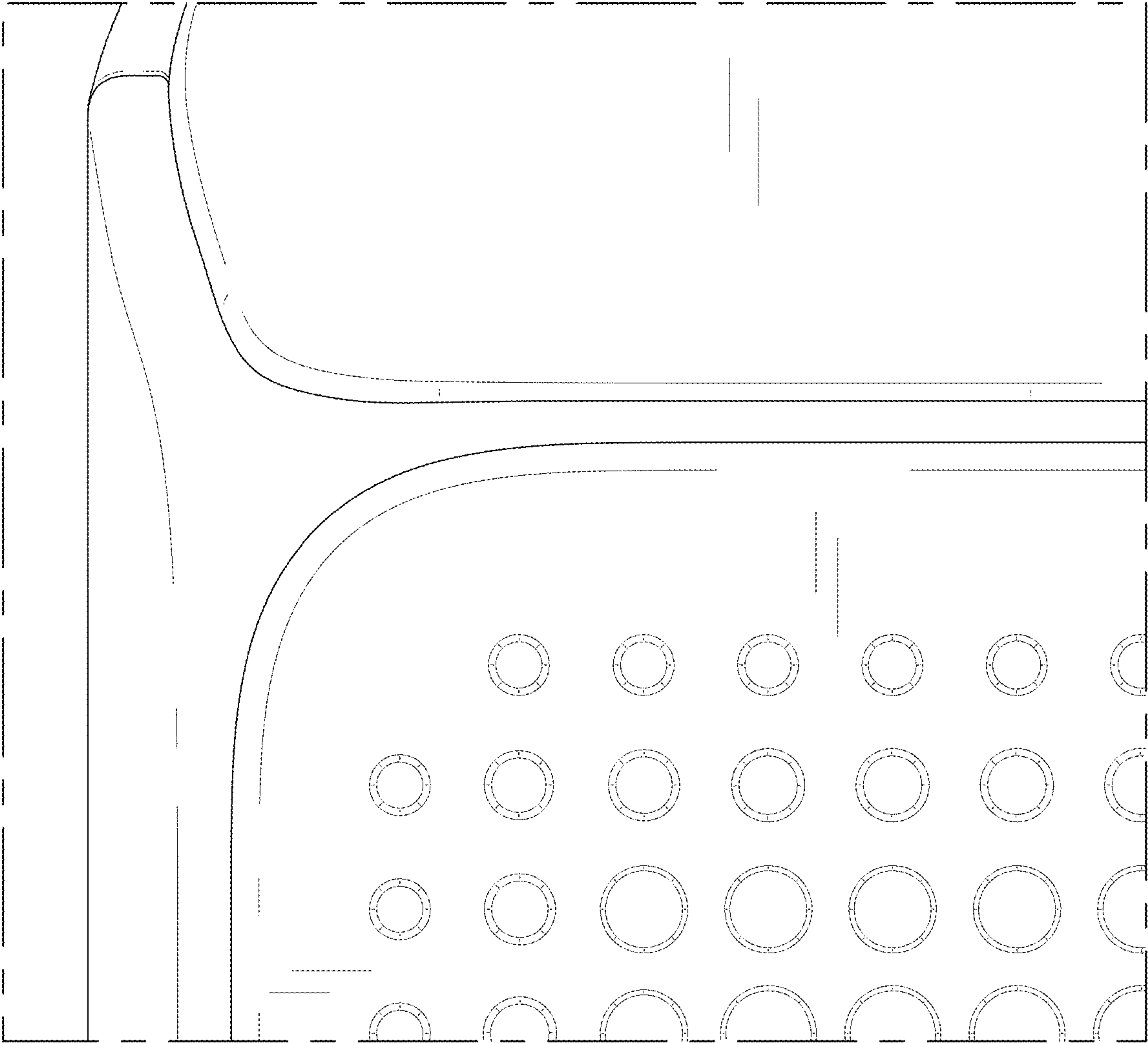


FIG. 12

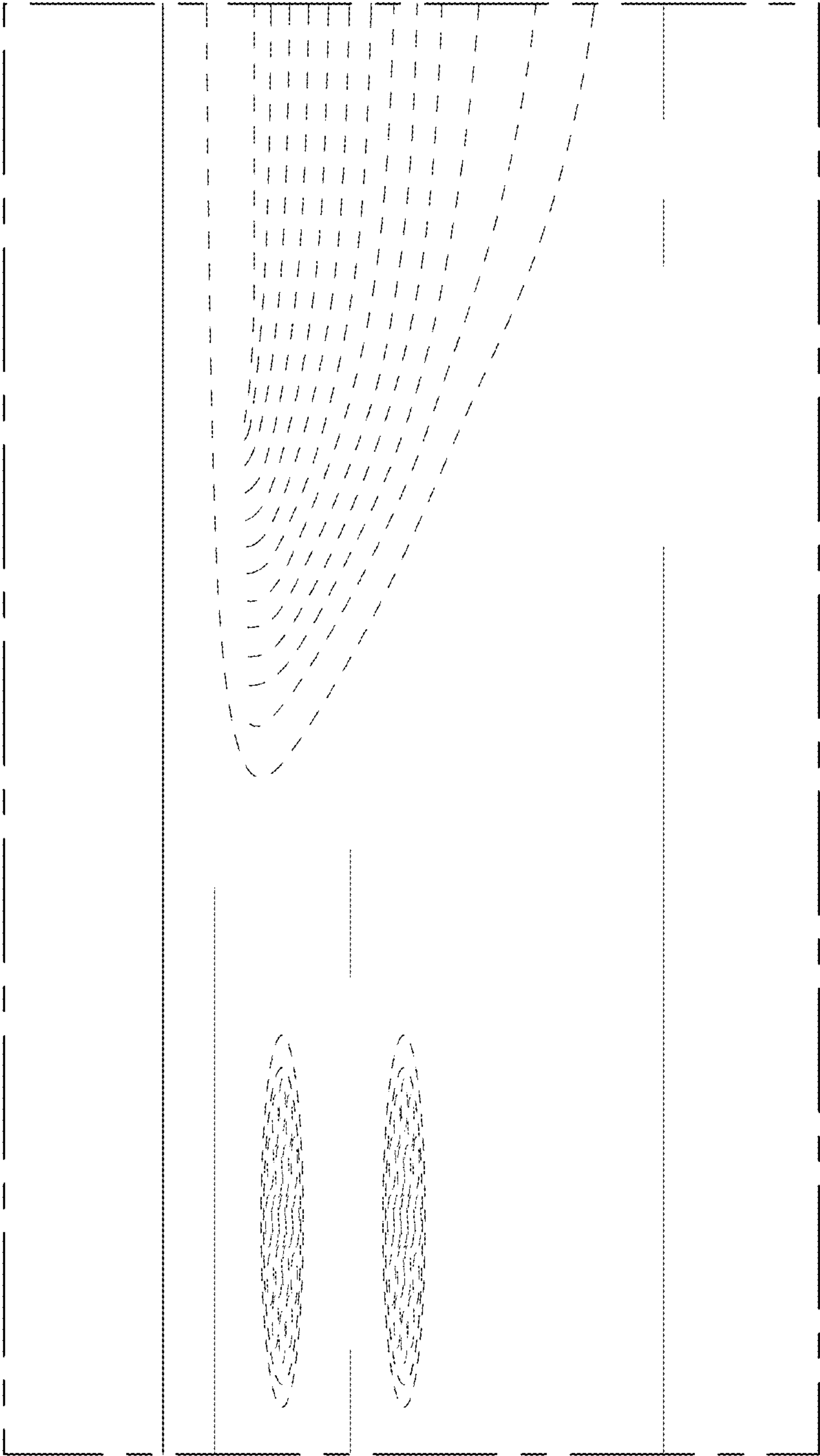


FIG. 13

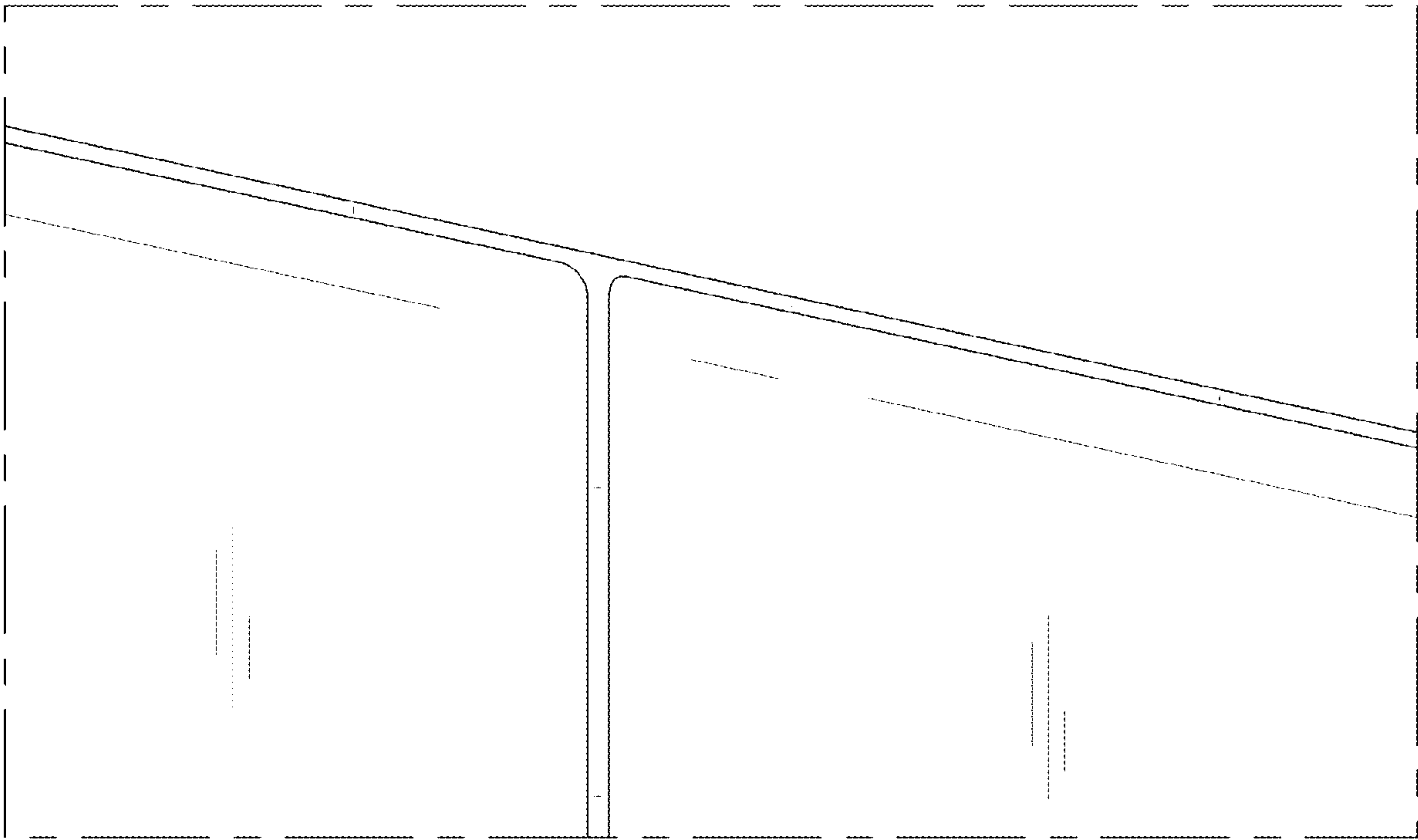


FIG. 14

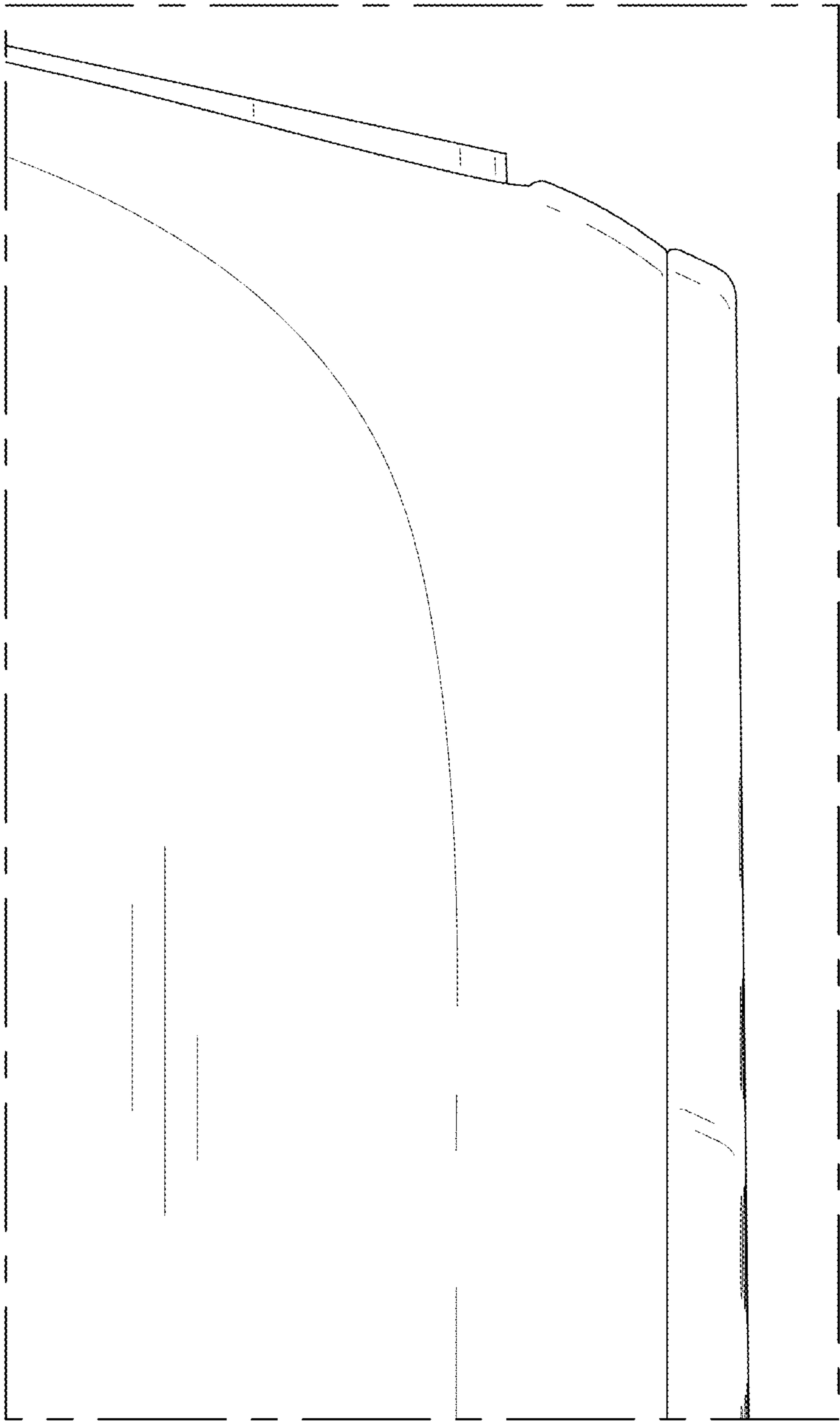


FIG. 15

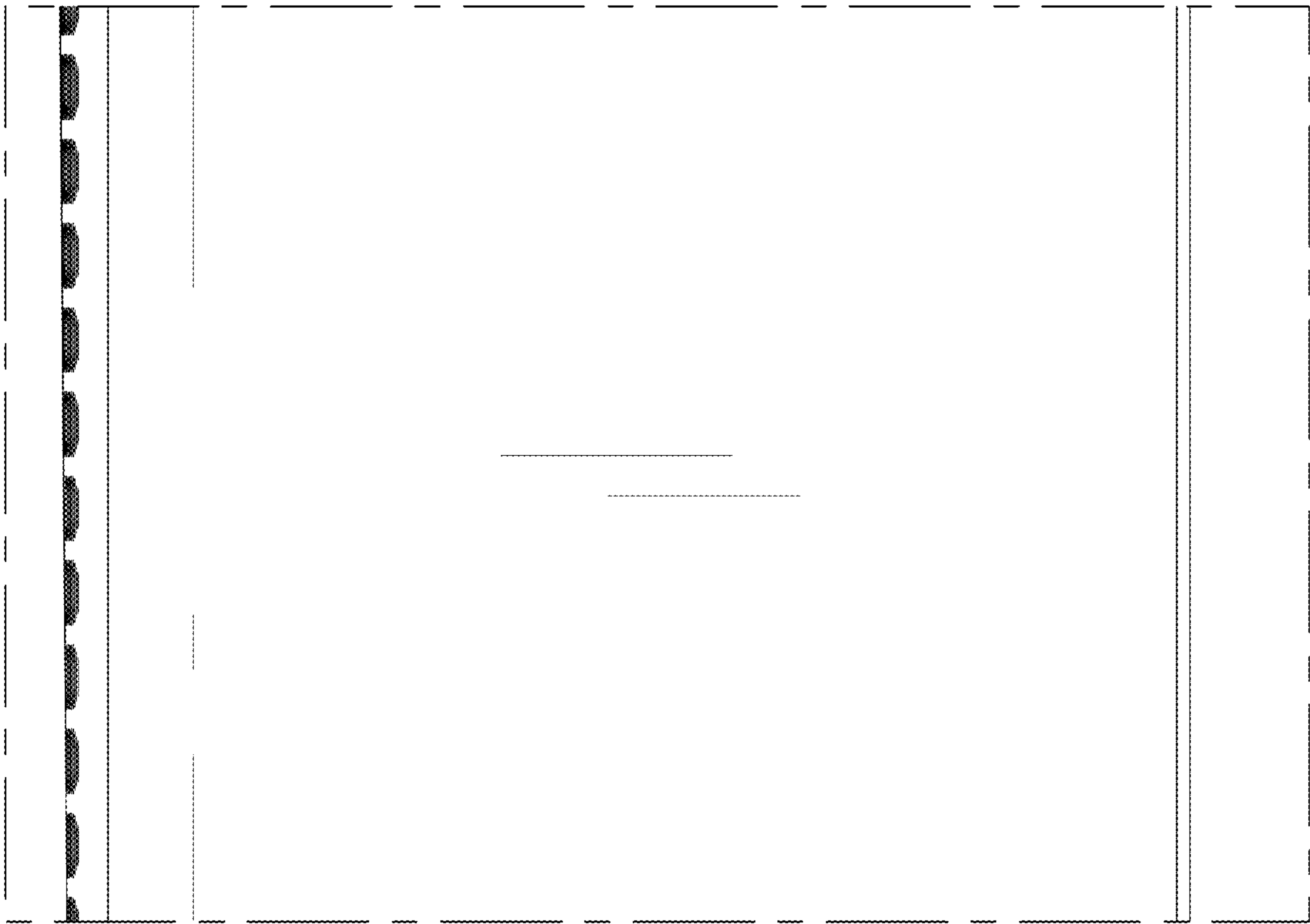


FIG. 16

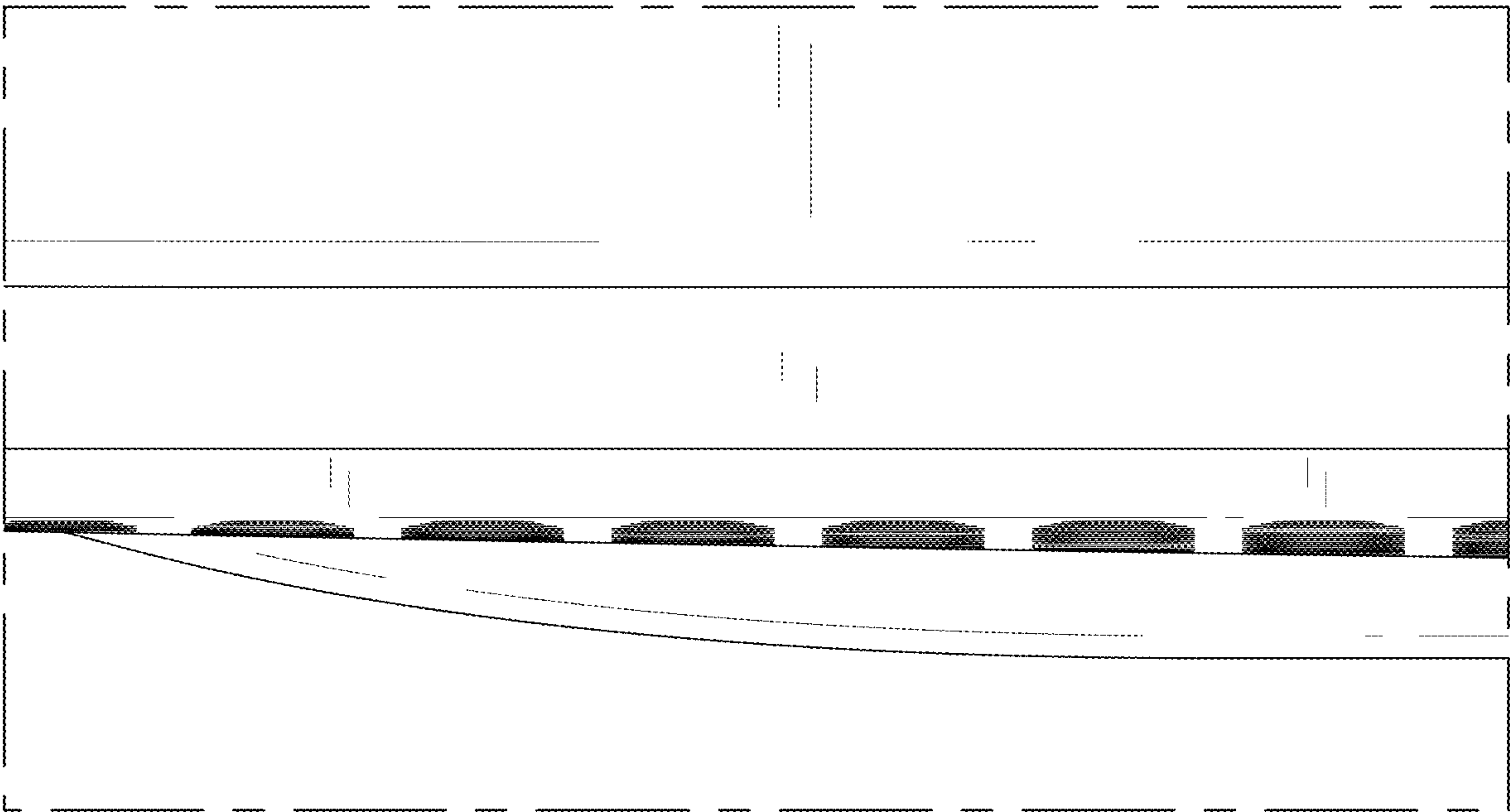


FIG. 17

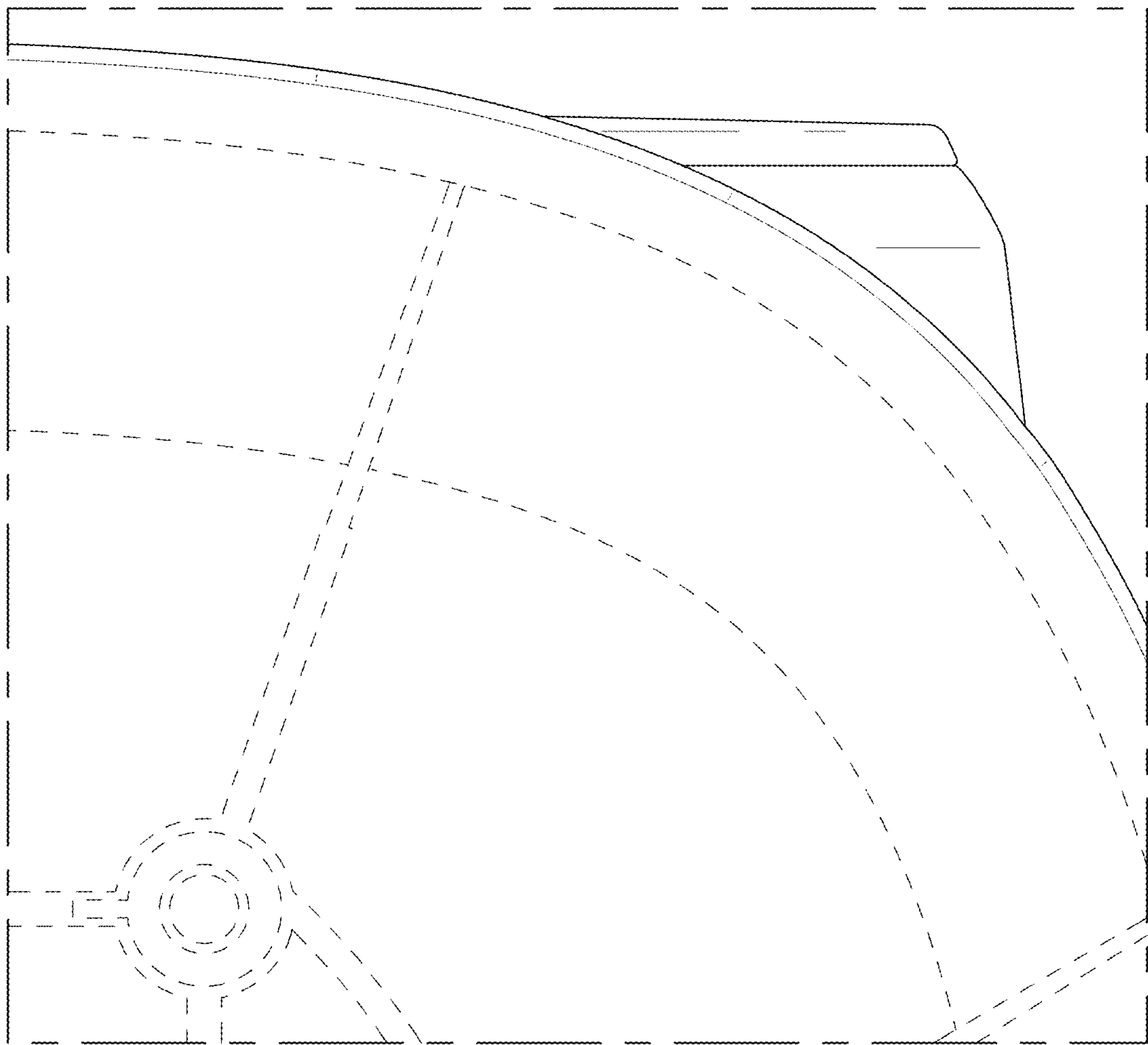


FIG. 18

