



US00D819002S

(12) **United States Design Patent** (10) **Patent No.:** **US D819,002 S**  
**Lee et al.** (45) **Date of Patent:** **\*\* May 29, 2018**

(54) **REPEATER FOR COMMUNICATIONS APPARATUS**

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

(72) Inventors: **Eunae Lee**, Seoul (KR); **Jihee Kwak**, Seoul (KR)

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

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

(21) Appl. No.: **29/598,849**

(22) Filed: **Mar. 29, 2017**

(30) **Foreign Application Priority Data**

Nov. 18, 2016 (KR) ..... 30-2016-0055491

(51) **LOC (11) Cl.** ..... **14-03**

(52) **U.S. Cl.**  
USPC ..... **D14/240; D14/358**

(58) **Field of Classification Search**  
USPC ..... D14/125, 129, 130, 137, 140, 142, 155, D14/168, 172, 188, 195, 203.1, 203.6, D14/203.8, 204, 209, 209.1, 216, 230, D14/231, 233, 235, 236, 237, 240, 242, D14/299, 300, 302, 348, 351, 356, 357, D14/358, 361, 362, 365, 367, 370, 388, D14/432, 434, 496, 210, 215, 140.1, D14/140.2, 140.3, 140.4, 140.5, 140.6, D14/140.7, 140.8, 141.1, 141.2, 141.3, D14/170, 194, 219, 221, 257, 500, 501; D13/103, 107, 108, 123, 152, 158, 162, D13/162.1, 163, 168, 184, 199; D10/104.1, 106.2, 106.3, 106.5, 106.6,  
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,065,076 A \* 5/2000 Sorenson ..... G06F 15/0283  
345/173  
D491,563 S \* 6/2004 Sato ..... D14/242  
(Continued)

FOREIGN PATENT DOCUMENTS

EM 002101584-0005 9/2012  
EM 002319830-0001 10/2013  
EM 002441956-0001 4/2014

OTHER PUBLICATIONS

Samsung 4G LTE Network Extender 2, as posted at VerizonWireless.com [online], posting date not available, [site visited Jan. 11, 2018]. Available from the Internet, <URL: <https://www.verizonwireless.com/accessories/samsung-4g-lte-network-extender-2/>>.\*  
(Continued)

*Primary Examiner* — Jeffrey D Asch  
*Assistant Examiner* — Rebekah A Caruso  
(74) *Attorney, Agent, or Firm* — NSIP Law

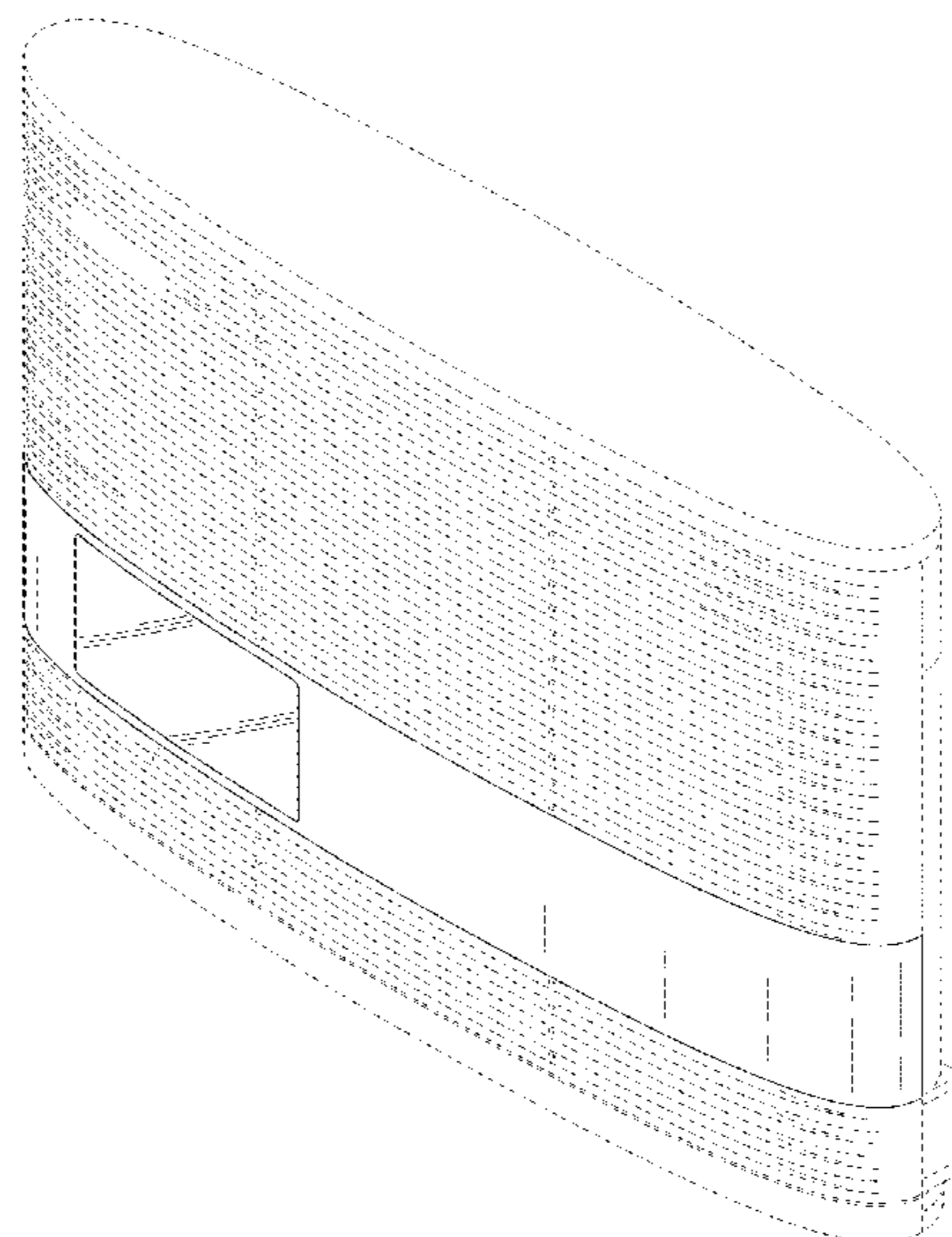
(57) **CLAIM**

We claim the ornamental design for a repeater for communications apparatus, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a repeater for communications apparatus showing our new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a left-side elevational view thereof; FIG. 5 is a right-side elevational view thereof; FIG. 6 is a top plan view thereof; and, FIG. 7 is a bottom plan view thereof. The broken lines in the figures depict environmental subject matter and form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



# US D819,002 S

Page 2

(58) **Field of Classification Search**

USPC ..... D10/106.9, 106.91, 116.1, 61, 64, 75;  
D9/432; D23/354, 356, 359, 364, 365,  
D23/370, 371, 381, 412  
CPC ... H04W 88/08; H04W 88/085; H04W 88/00;  
H04W 88/005; H04W 88/02; H04W  
88/12; H04W 88/14; H04W 88/16; H04W  
88/18; H04W 4/00; H01Q 1/02; H01Q  
1/2291; H01Q 1/246; H04B 1/38  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D551,652 S \* 9/2007 Nakamura ..... D14/168  
D560,686 S \* 1/2008 Kim ..... D14/496  
D617,299 S \* 6/2010 Tzeng ..... D14/138 AA  
D641,343 S \* 7/2011 Kim ..... D14/240  
D643,394 S \* 8/2011 Kao ..... D14/138 AA  
D664,130 S \* 7/2012 Lee ..... D14/240  
D698,341 S \* 1/2014 Lee ..... D14/248  
D720,333 S \* 12/2014 Akana ..... D14/217  
D724,057 S \* 3/2015 Kim ..... D14/217  
D728,524 S \* 5/2015 Cho ..... D14/216

D728,539 S \* 5/2015 Dubrule ..... D14/240  
D729,241 S \* 5/2015 Sogabe ..... D14/356  
D729,783 S \* 5/2015 Ryu ..... D14/248  
D732,516 S \* 6/2015 Bae ..... D14/248  
D737,818 S \* 9/2015 Peng ..... D14/365  
D740,809 S \* 10/2015 Kwon ..... D14/250  
D741,825 S \* 10/2015 James ..... D14/125  
D743,402 S \* 11/2015 Ehara ..... D14/432  
D743,403 S \* 11/2015 Ehara ..... D14/432  
D762,612 S \* 8/2016 Yano ..... D14/149  
D778,280 S \* 2/2017 Vanderpol ..... D14/363  
D781,273 S \* 3/2017 Nuk ..... D14/240  
D785,597 S \* 5/2017 Fung ..... D14/204  
D789,337 S \* 6/2017 Nuk ..... D14/240

OTHER PUBLICATIONS

“Verizon and Samsung unveil 4G LTE Network Extender for homes and businesses,” Network Extender pictured therein, as posted at News.Samsung.com [online], posted on Jun. 29, 2016, [site visited Jan. 11, 2018]. Available from the Internet, <URL: <https://news.samsung.com/us/verizon-samsung-4g-lte-network-extender-%E2%80%A8for-homes-businesses/>>.\*

\* cited by examiner

FIG. 1

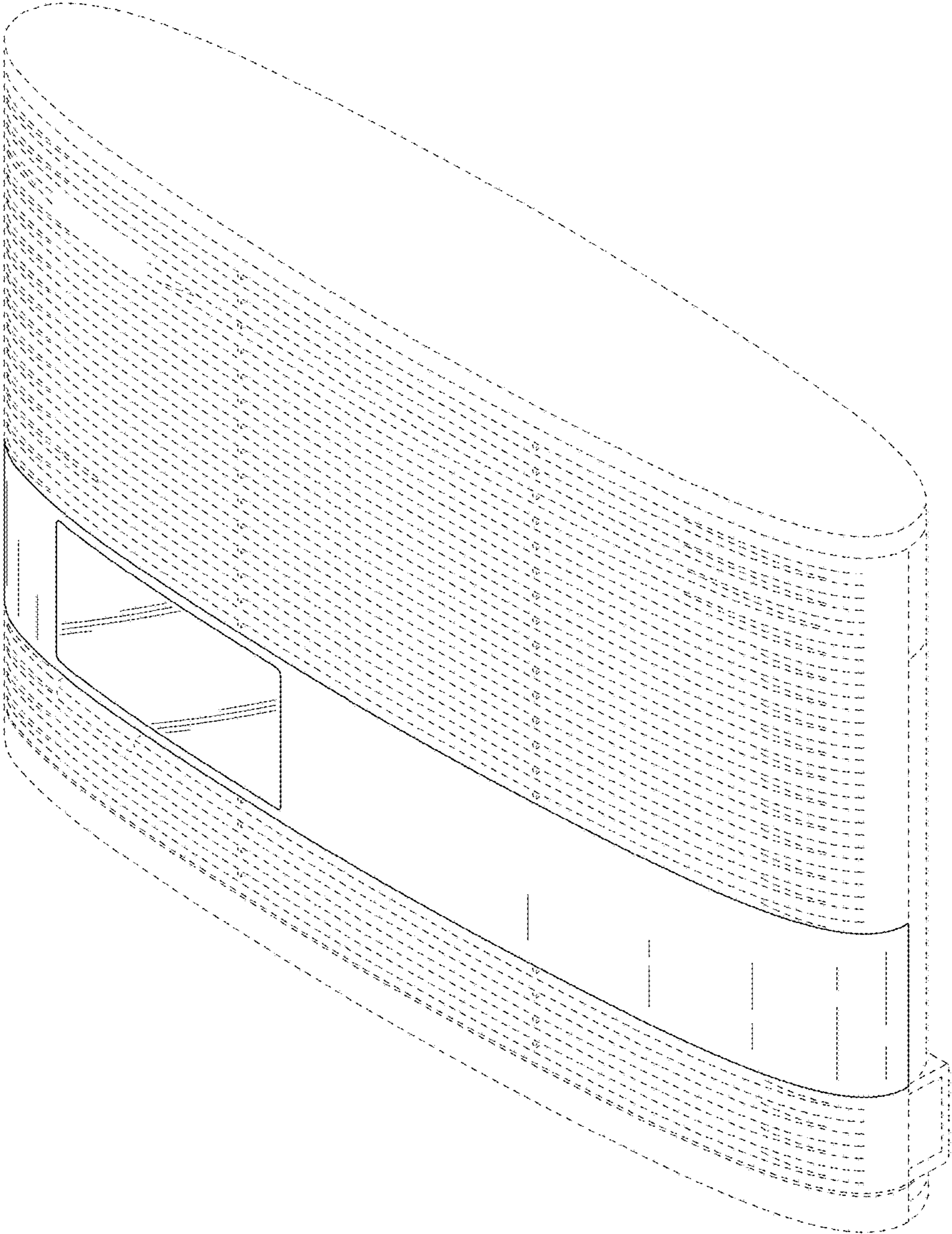


FIG. 2

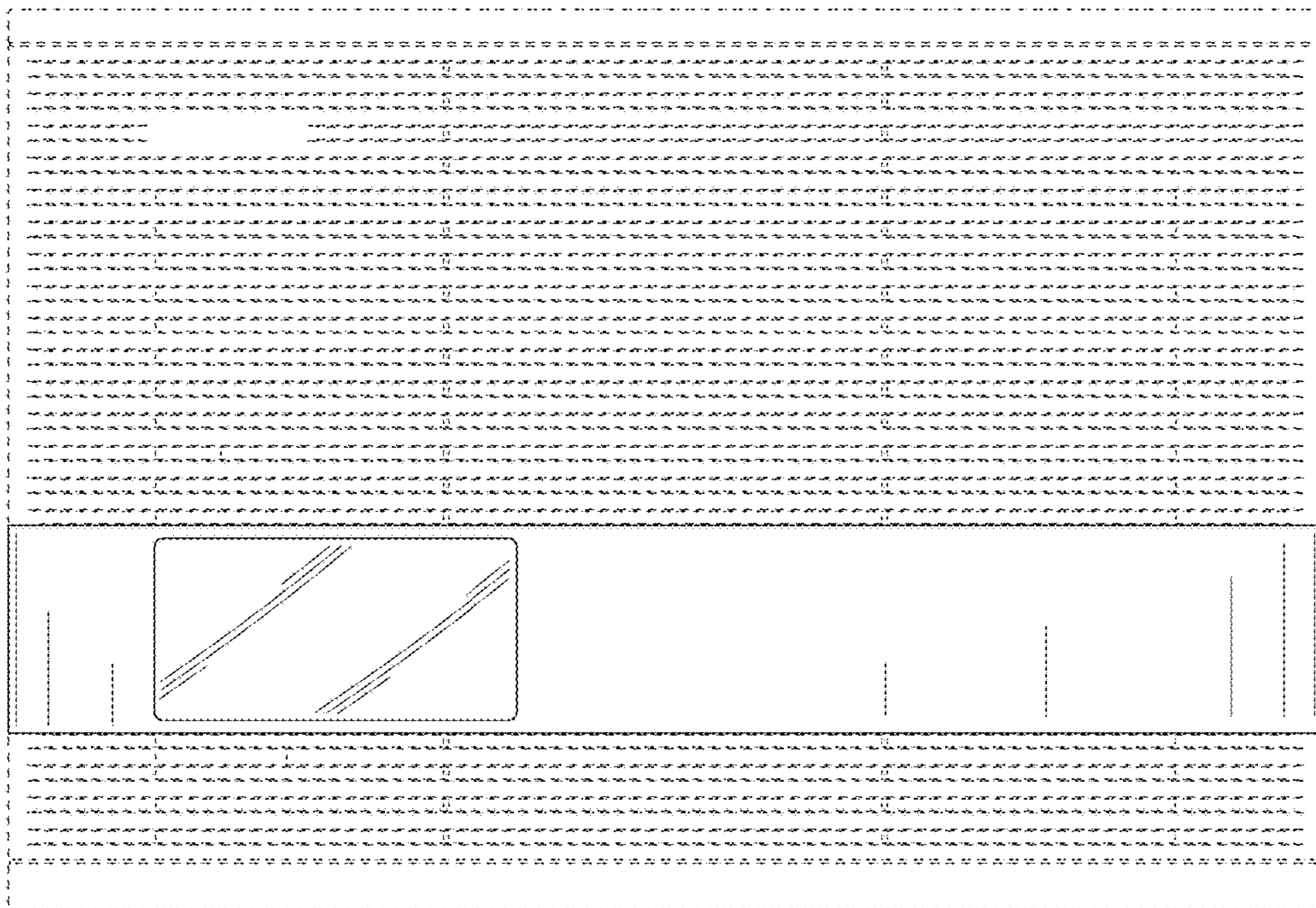


FIG. 3

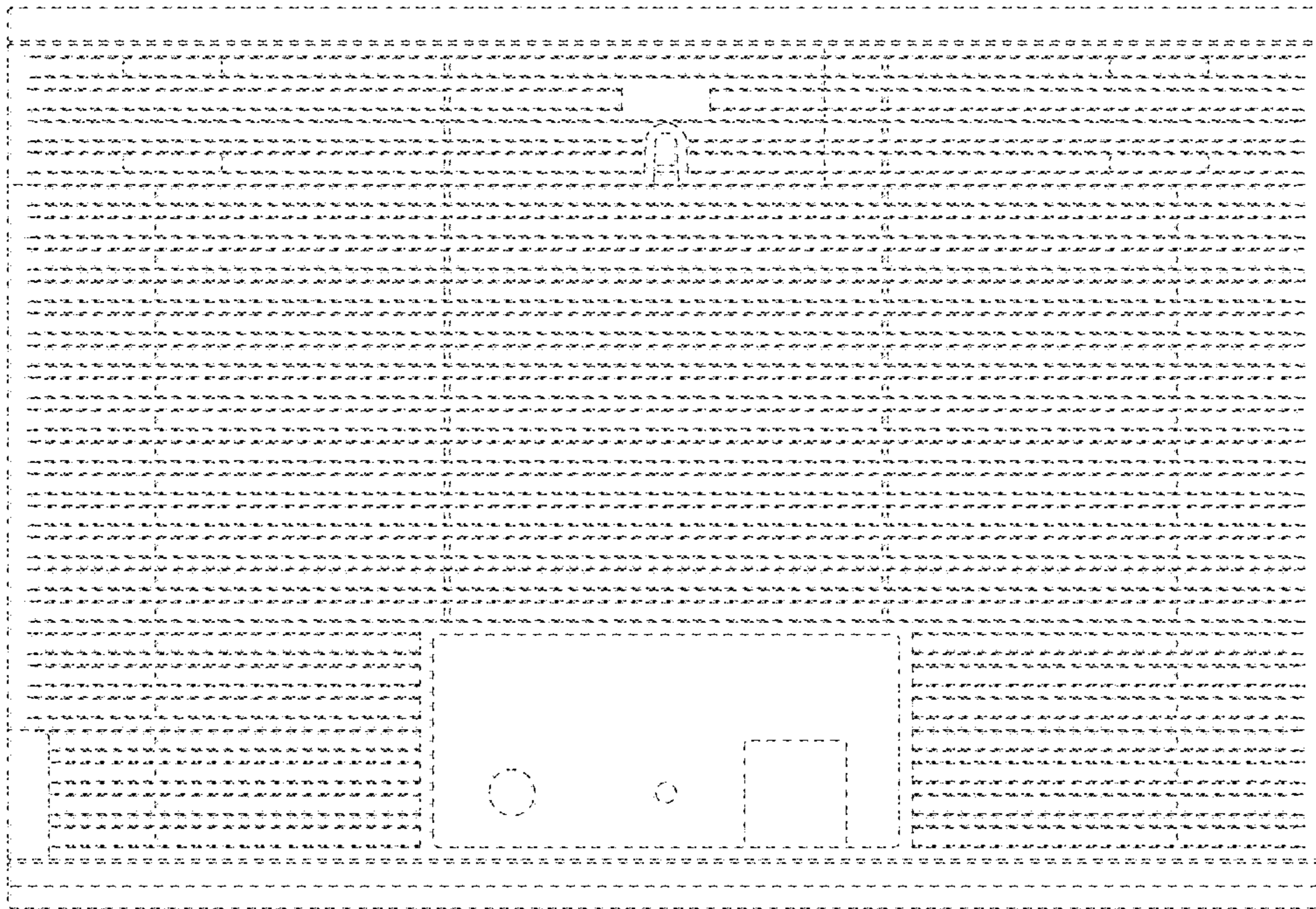


FIG. 4

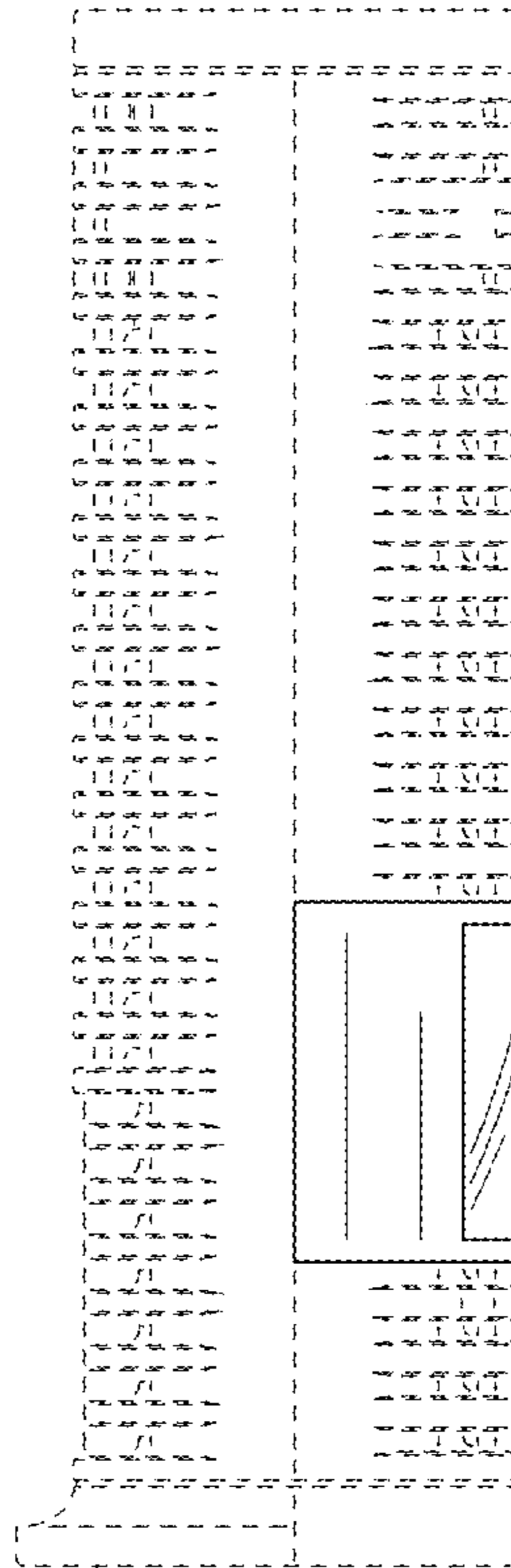


FIG. 5

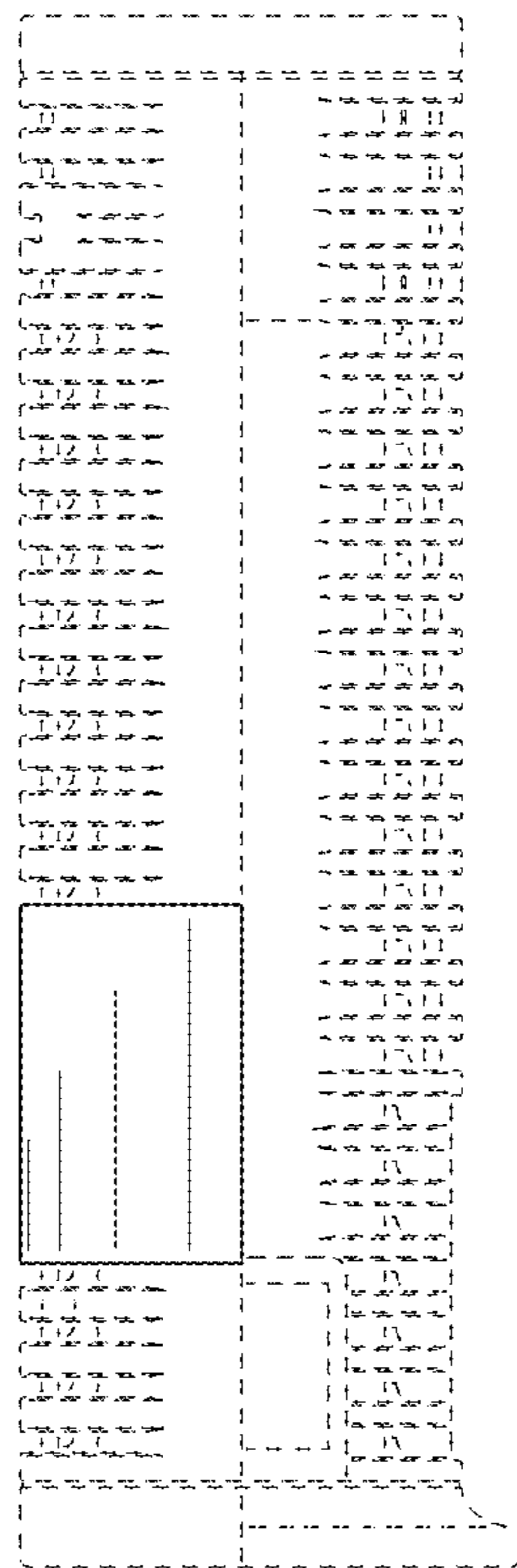


FIG. 6

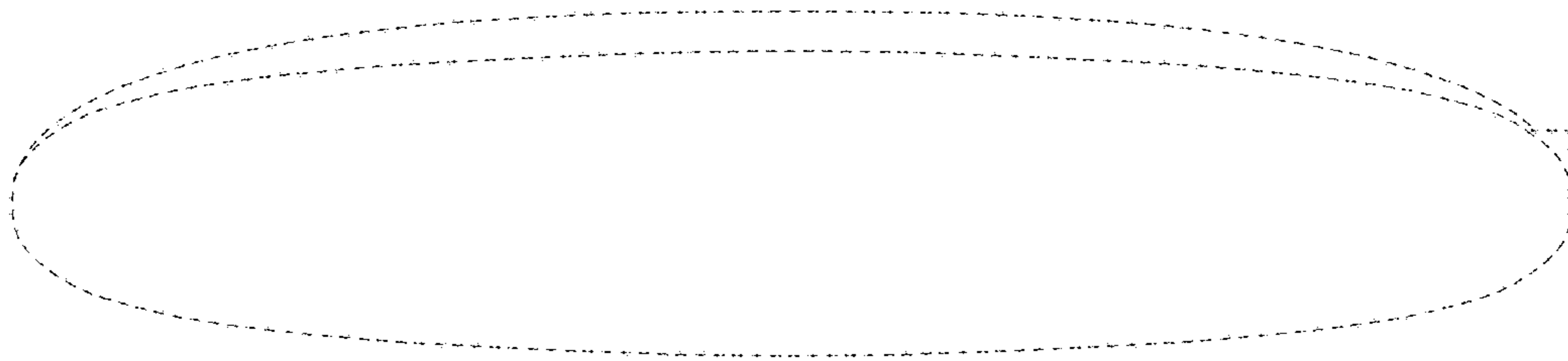




FIG. 7

