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(12) **United States Design Patent** (10) **Patent No.:** **US D819,807 S**
Genstler et al. (45) **Date of Patent:** **** Jun. 5, 2018**

(54) **MEDICAL DEVICE INTERFACE CONNECTOR**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **EKOS CORPORATION**, Bothell, WA (US)

CN 301040544 S 10/2009
CN 301877182 S 4/2012
JP D145667 S 11/2012

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OTHER PUBLICATIONS

“EkoSonic® MACH4e”, EKOS Advertisement, Venous Times, Issue 6, dated Jan. 2010, p. 3.

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(73) Assignee: **EKOS CORPORATION**, Bothell, WA (US)

(57) **CLAIM**

The ornamental design for a medical device interface connector, as shown and described.

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

DESCRIPTION

(21) Appl. No.: **29/503,034**

(22) Filed: **Sep. 22, 2014**

(51) **LOC (11) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/129**

(58) **Field of Classification Search**
USPC D24/127–131, 112–114, 133, 186;
606/181, 185; 604/264, 523–528, 272,
(Continued)

FIG. 1 is a perspective view of the medical device interface connector;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a top plan view thereof;
FIG. 5 is a bottom plan view thereof;
FIG. 6 is a right elevational view thereof;
FIG. 7 is a left elevational view thereof;
FIG. 8 is a perspective view of a medical device interface connector of FIG. 1;
FIG. 9 is a front elevational view thereof;
FIG. 10 is a rear elevational view thereof;
FIG. 11 is a top plan view thereof;
FIG. 12 is a bottom plan view thereof;
FIG. 13 is a right elevational view thereof; and,
FIG. 14 is a left elevational view thereof.

(56) **References Cited**

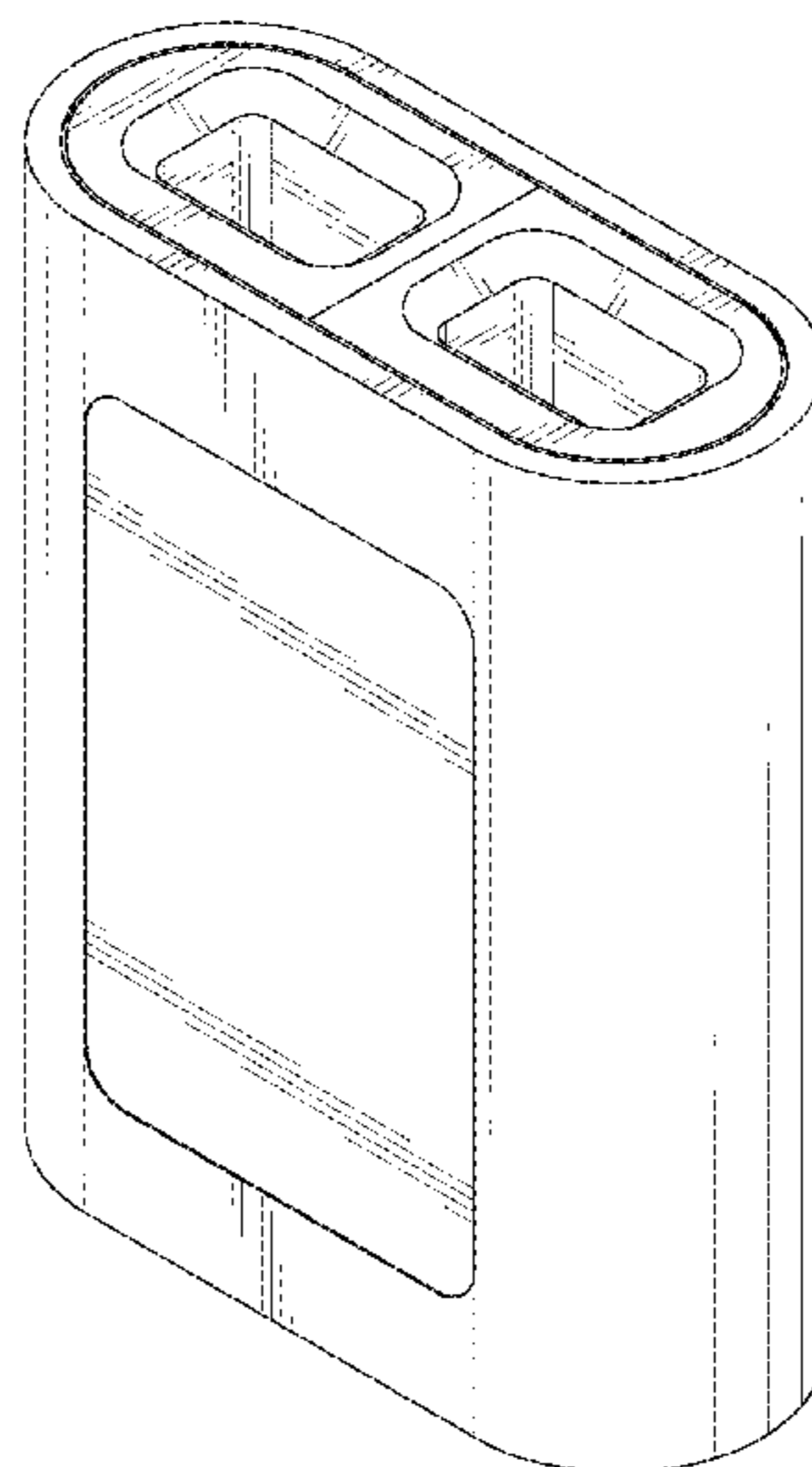
U.S. PATENT DOCUMENTS

D238,905 S 2/1976 Sokol
4,006,743 A * 2/1977 Kowarski A61B 5/14532
128/DIG. 1

The features shown in broken lines depict environmental structures only and form no part of the claimed design. The features shown in dash-dot-lines show the bounds of the claim and do not form part of the claimed design.

(Continued)

1 Claim, 8 Drawing Sheets



(58) **Field of Classification Search**

USPC 604/187, 158, 164.01–164.11, 181, 184,
604/227; 600/101, 139, 143;
128/200.24, 207.14, 207.15
CPC A61M 25/00; A61M 39/00; A61M 27/00;
A61M 25/0043; A61M 25/0067; A61M
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D247,251 S 2/1978 Napoli
4,312,361 A 1/1982 Nicholson et al.
D264,128 S 4/1982 Barnes et al.
D296,240 S 6/1988 Albright et al.
D330,424 S 10/1992 Davis et al.
5,461,708 A 10/1995 Kahn
D380,543 S * 7/1997 Piontek D24/108
D427,574 S 7/2000 Sawada et al.
6,493,731 B1 12/2002 Jones et al.
D526,655 S 8/2006 McDougall et al.
D534,654 S 1/2007 Hayamizu
7,178,109 B2 2/2007 Hewson et al.
7,235,063 B2 * 6/2007 D'Antonio A61D 1/025
604/187
D555,165 S 11/2007 Myers et al.
D564,094 S 3/2008 Hayashi
D564,661 S 3/2008 Hayashi
D574,961 S 8/2008 Kitahara et al.
D578,543 S 10/2008 Ulm et al.
D592,754 S 5/2009 Koike et al.
D593,117 S 5/2009 Lettau
7,615,030 B2 * 11/2009 Murphy A61K 33/00
604/181
D617,332 S 6/2010 Loken et al.
D622,841 S * 8/2010 Bierman A61M 25/02
D24/130
D630,727 S 1/2011 Petrovic et al.
D637,287 S * 5/2011 Mudd D24/133
D643,117 S 8/2011 Onuma
D644,649 S 9/2011 Fullington

D651,212 S 12/2011 Bakhreiba et al.
D658,667 S 5/2012 Cho et al.
D659,151 S 5/2012 Loken et al.
D664,257 S * 7/2012 Patil D24/186
D664,985 S 8/2012 Tanghe et al.
D670,714 S 11/2012 Majeed et al.
D670,716 S 11/2012 Majeed et al.
D670,725 S 11/2012 Mori et al.
D671,552 S 11/2012 Mori et al.
D676,562 S * 2/2013 Marzynski D24/186
D685,815 S 7/2013 Bork et al.
D698,925 S * 2/2014 Marzynski D24/186
D700,343 S * 2/2014 Liu D24/186
8,762,880 B2 6/2014 Dukhon et al.
D709,515 S 7/2014 Elston et al.
8,771,186 B2 7/2014 Kinsley et al.
D711,001 S * 8/2014 Boudier D24/186
D714,948 S * 10/2014 Vaccarella D24/186
D725,784 S * 3/2015 Xia D24/186
D733,178 S 6/2015 Omiya
9,050,123 B2 6/2015 Krause et al.
D733,720 S 7/2015 Mueller et al.
D733,738 S 7/2015 Omiya
D734,475 S 7/2015 Ross
D741,351 S 10/2015 Kito et al.
D741,871 S 10/2015 Chung et al.
D763,298 S 8/2016 Hoang et al.
D767,583 S 9/2016 Xiong
D767,584 S 9/2016 Xiong
D772,252 S 11/2016 Myers et al.
D773,491 S 12/2016 Ahdritz et al.
D776,688 S 1/2017 Gamel
2004/0111195 A1 6/2004 Vries et al.
2005/0278633 A1 12/2005 Kemp
2008/0115064 A1 5/2008 Roach et al.
2008/0228526 A1 9/2008 Locke et al.
2008/0235872 A1 10/2008 Newkirk et al.
2008/0290114 A1 11/2008 Cabuz
2013/0073306 A1 3/2013 Shlain et al.
2014/0226901 A1 8/2014 Spracklen et al.
2015/0095807 A1 4/2015 Duncker et al.
2015/0178044 A1 6/2015 Ehlen et al.

* cited by examiner

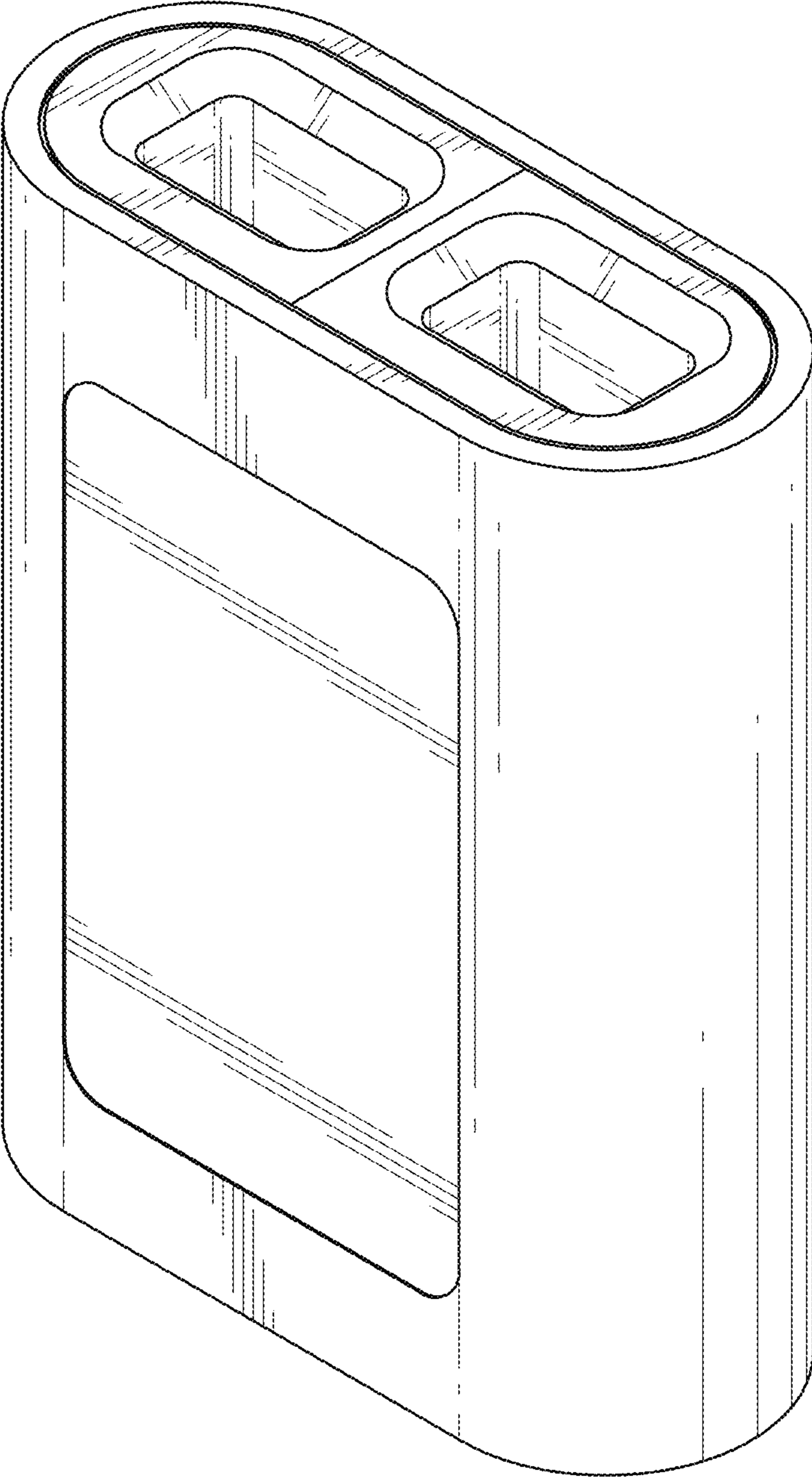


FIG. 1

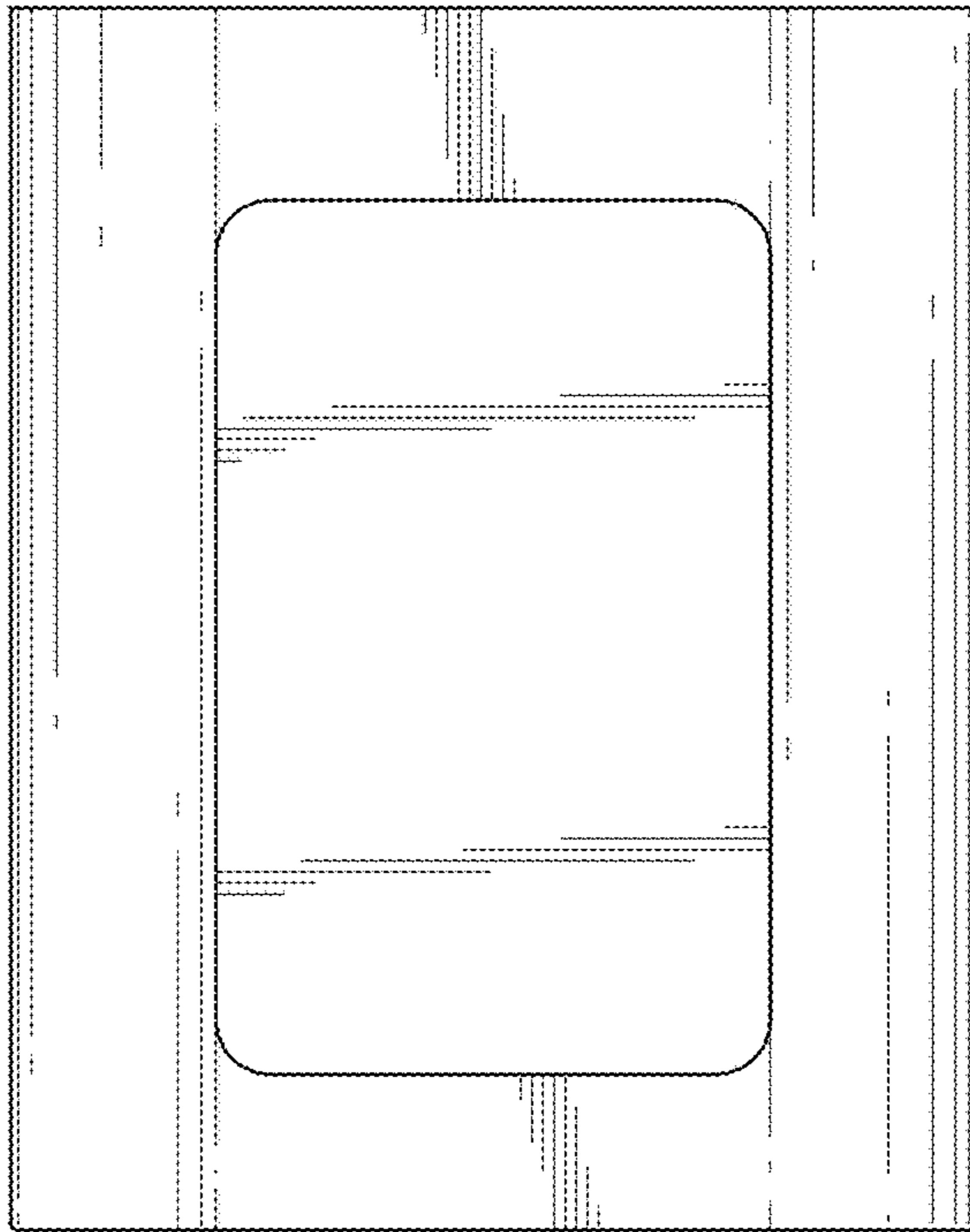


FIG. 2

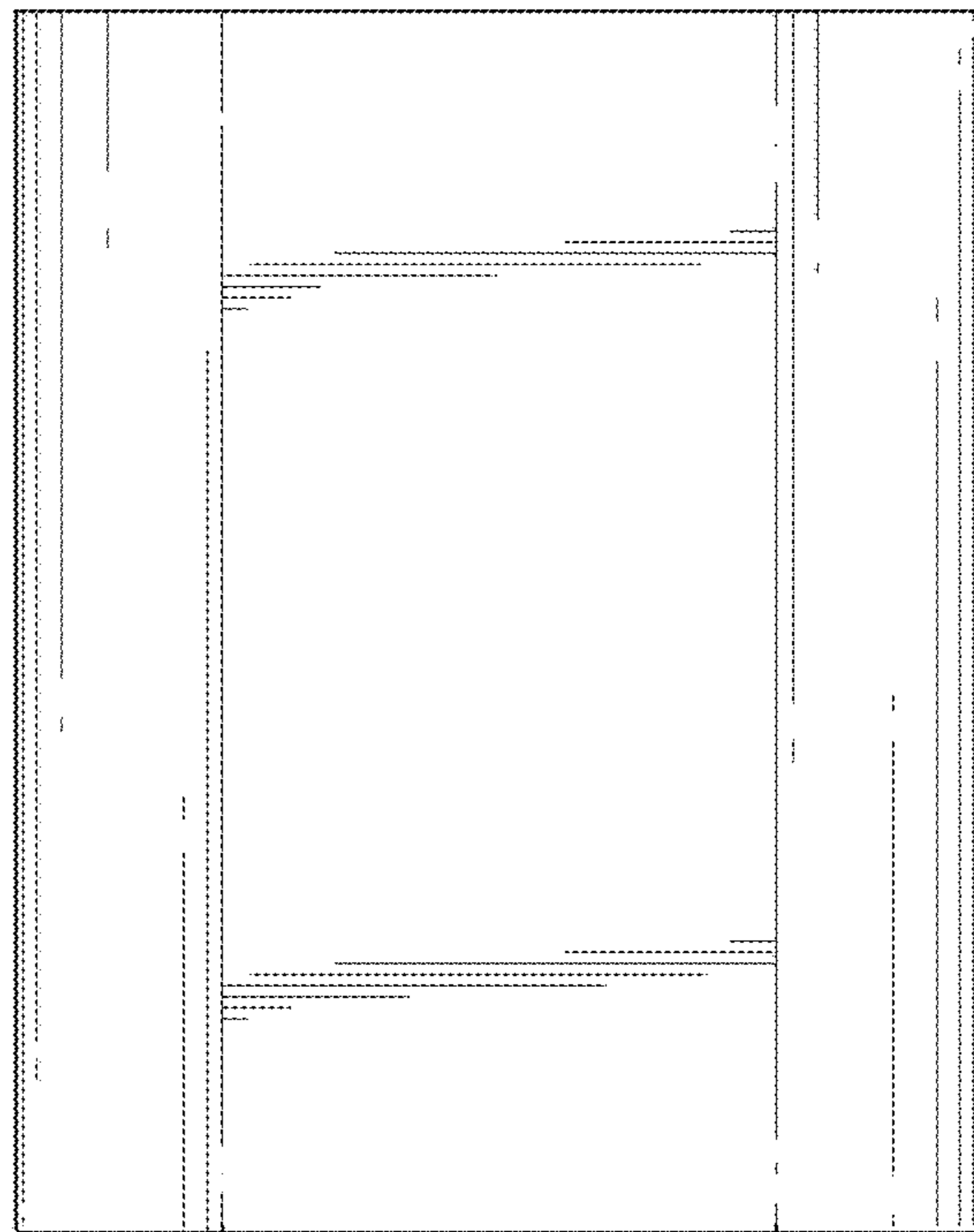


FIG. 3

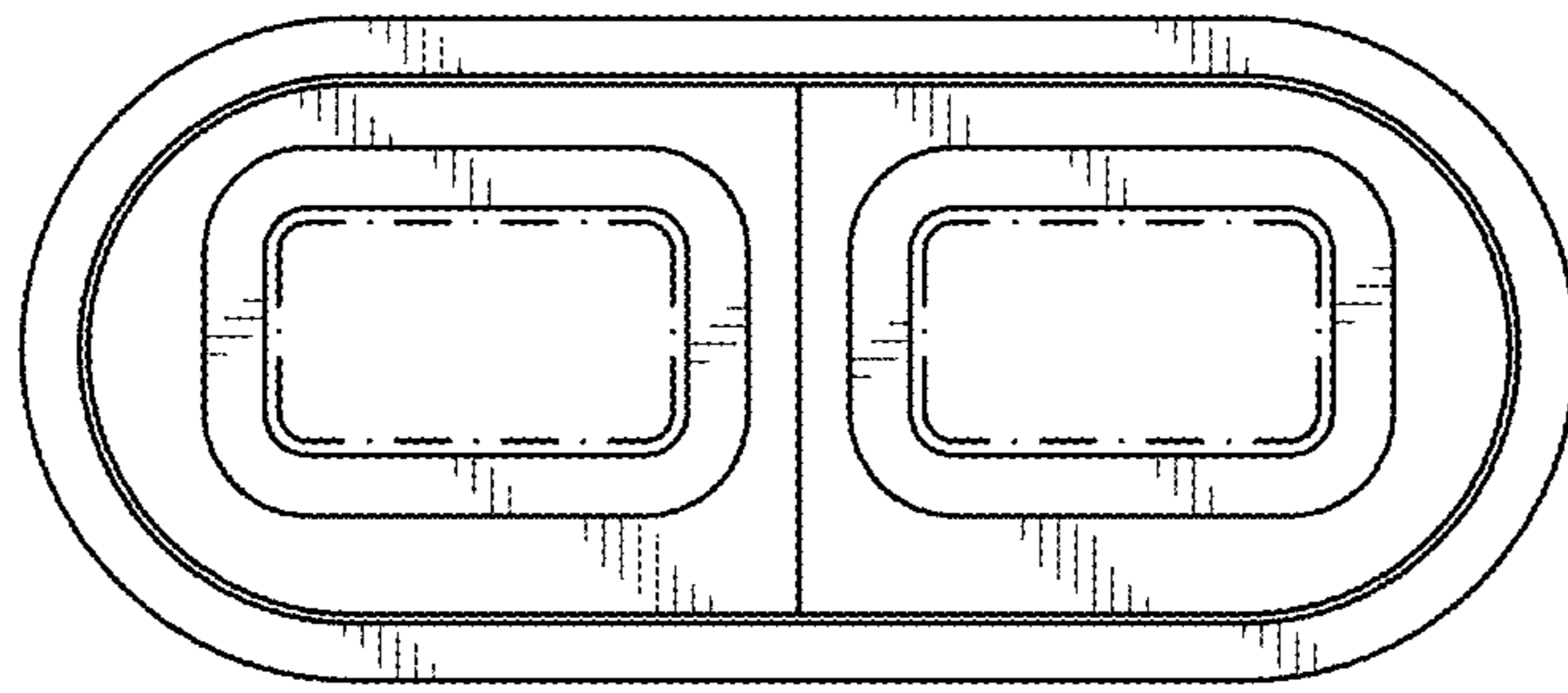


FIG. 4

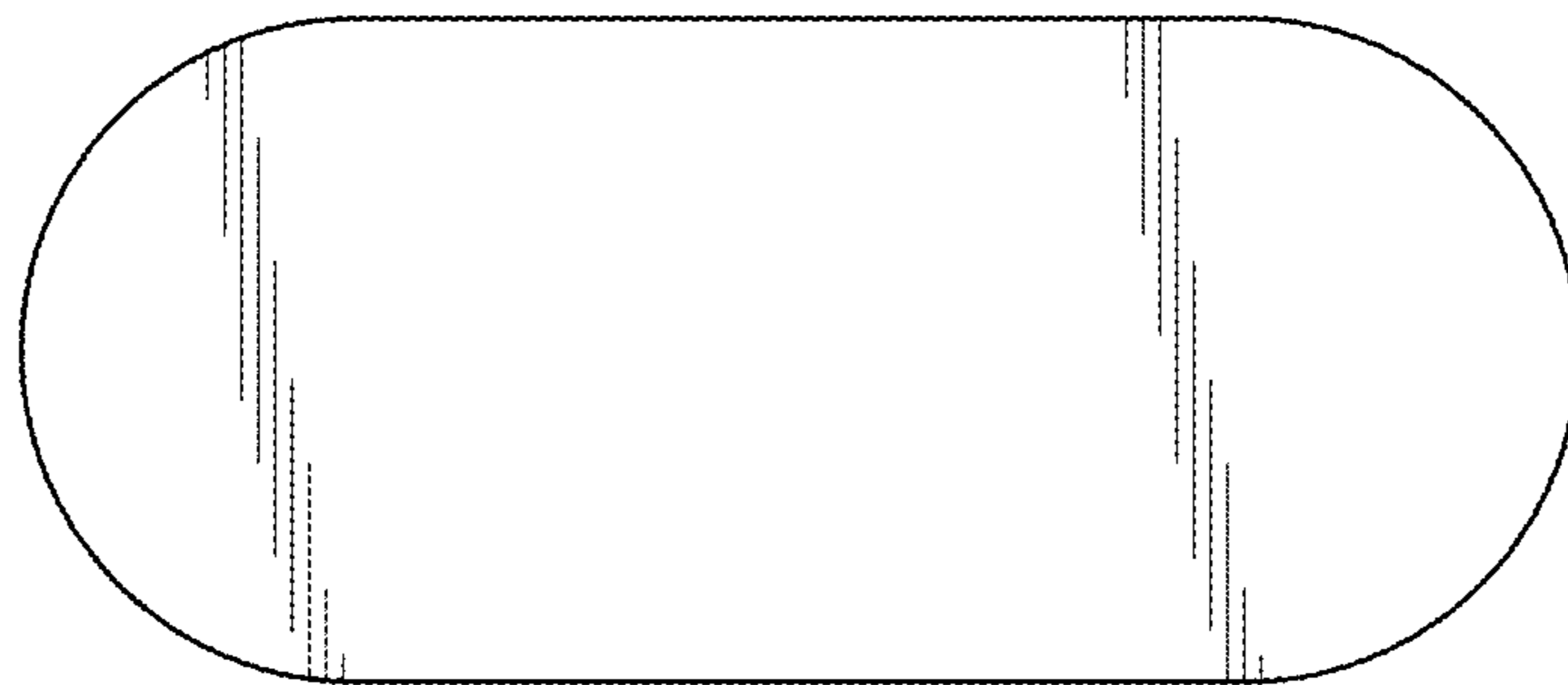


FIG. 5

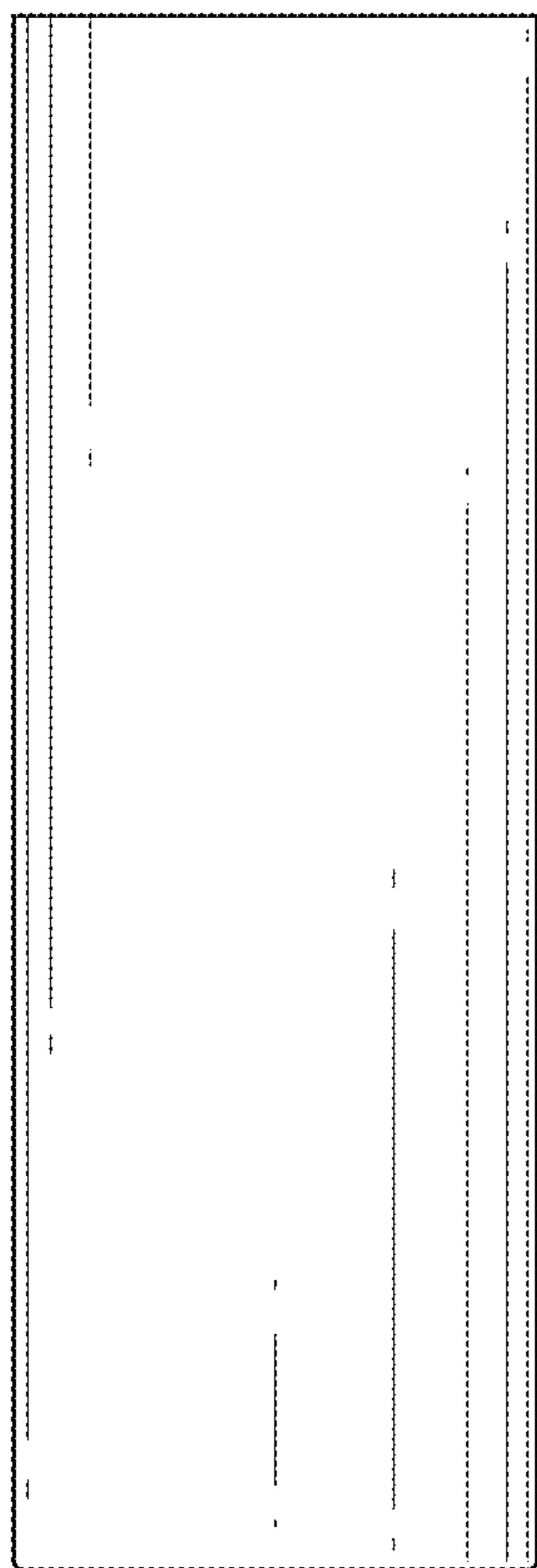


FIG. 6

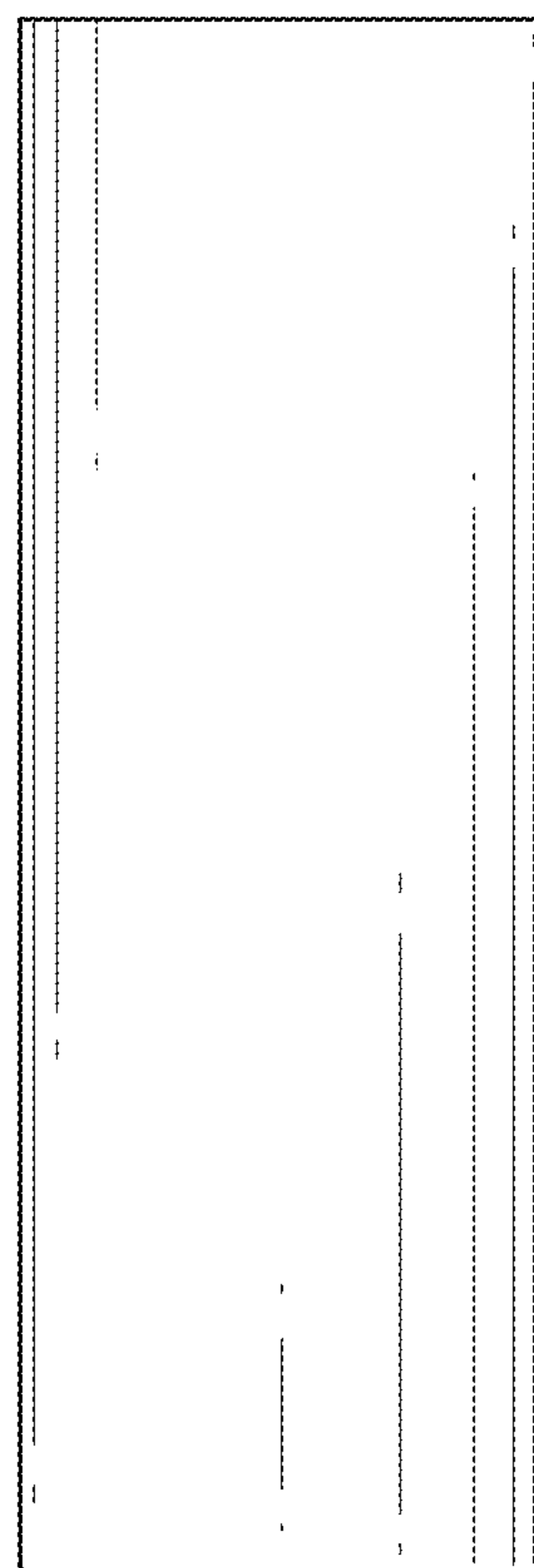


FIG. 7

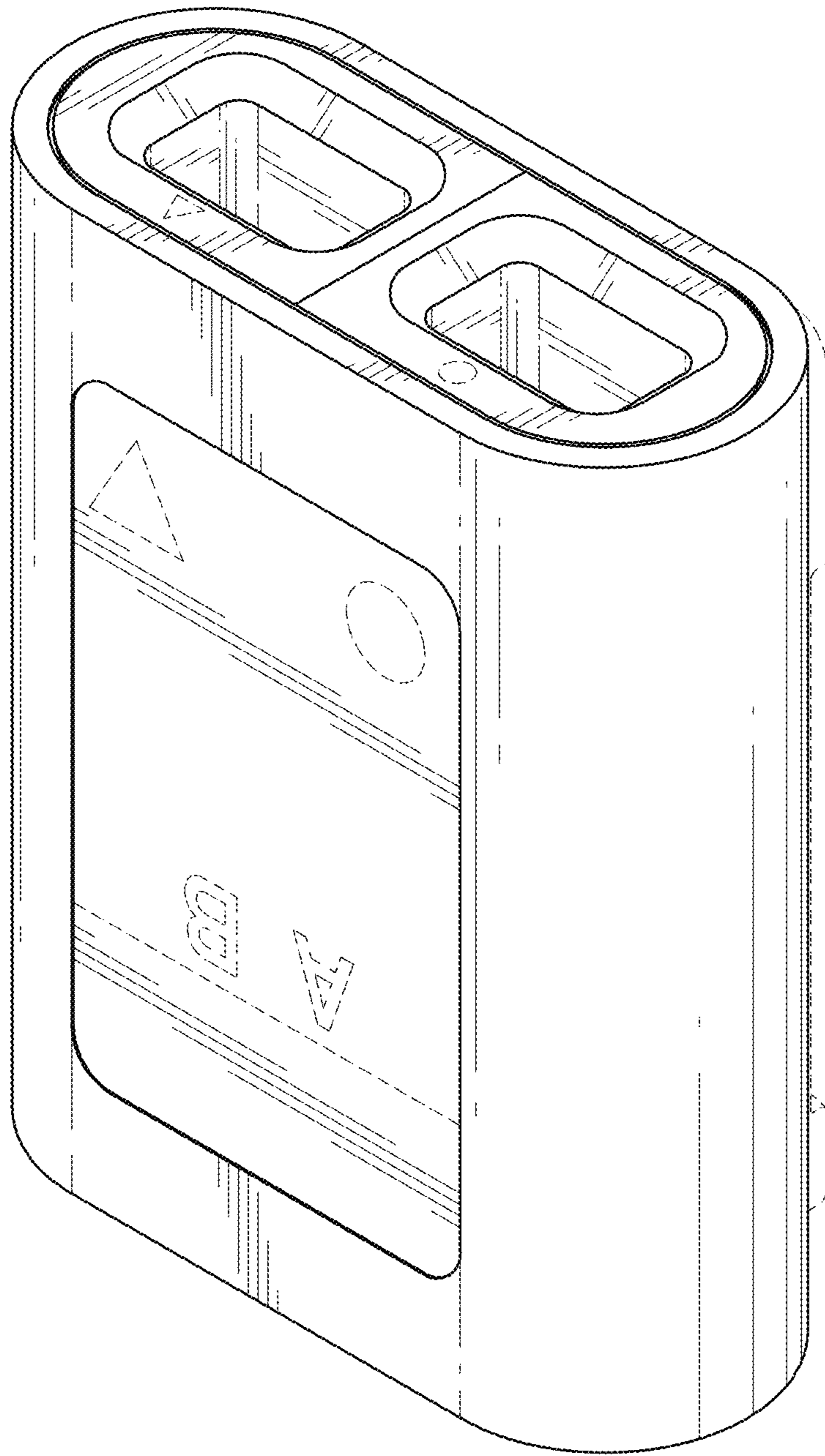


FIG. 8

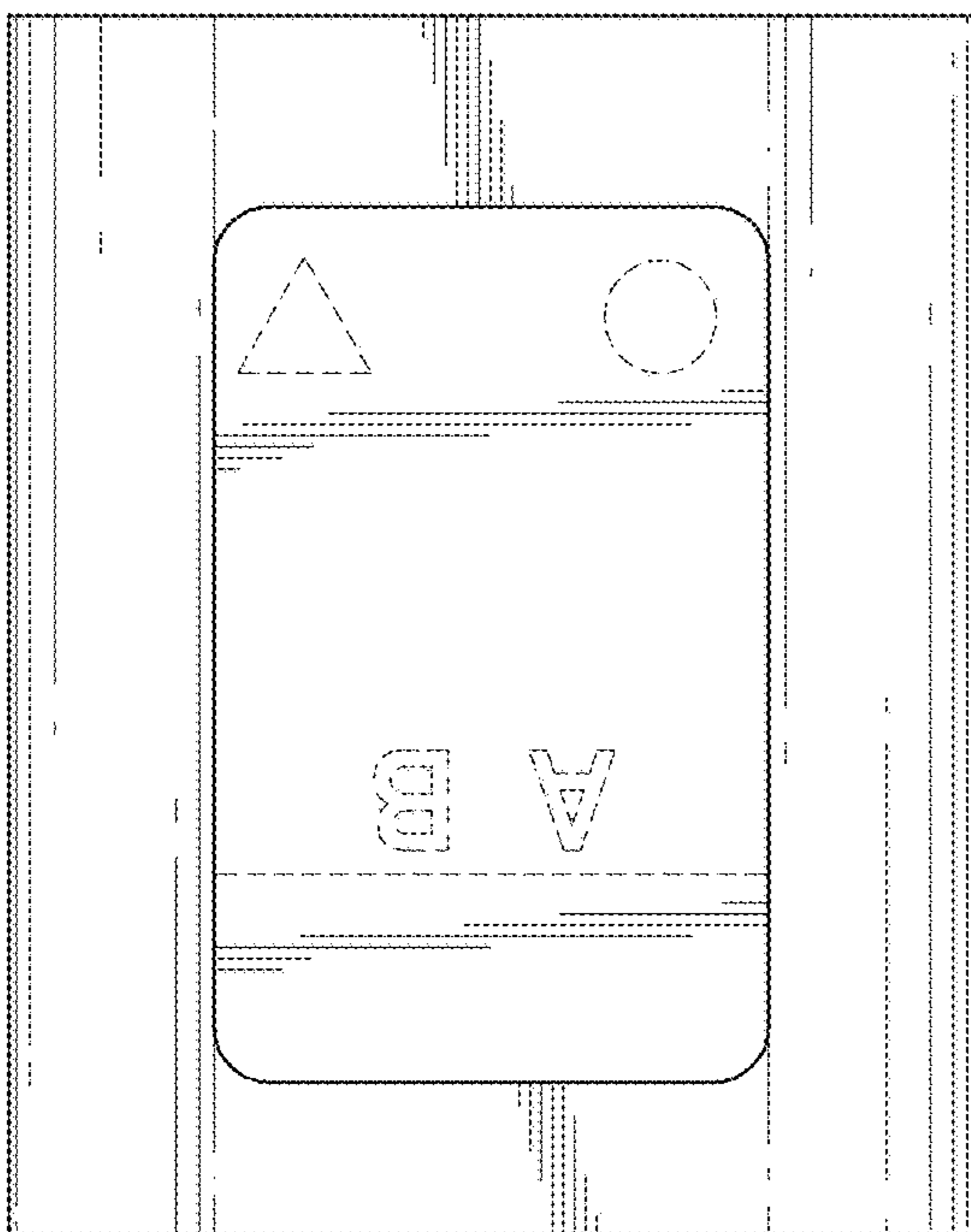


FIG. 9

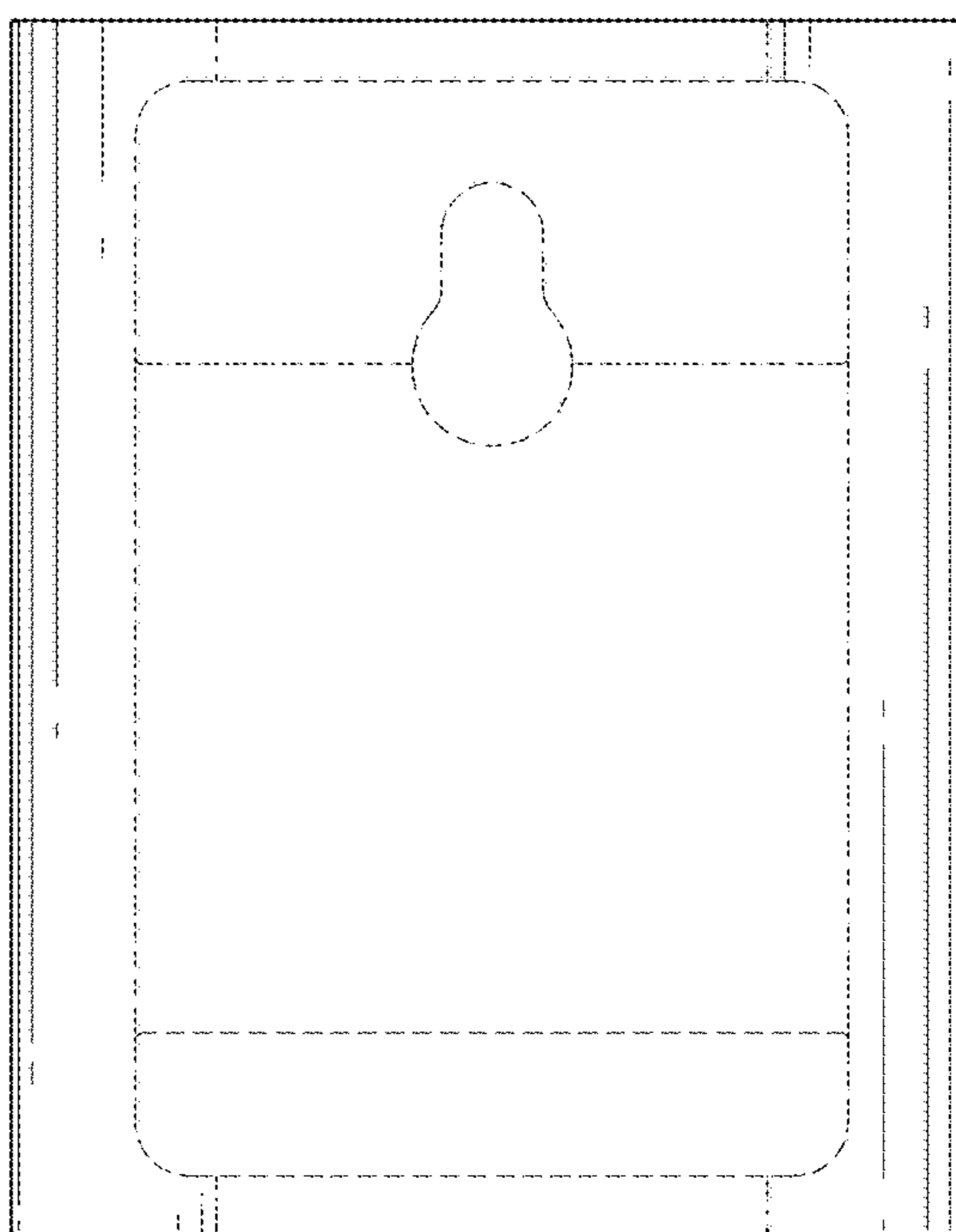


FIG. 10

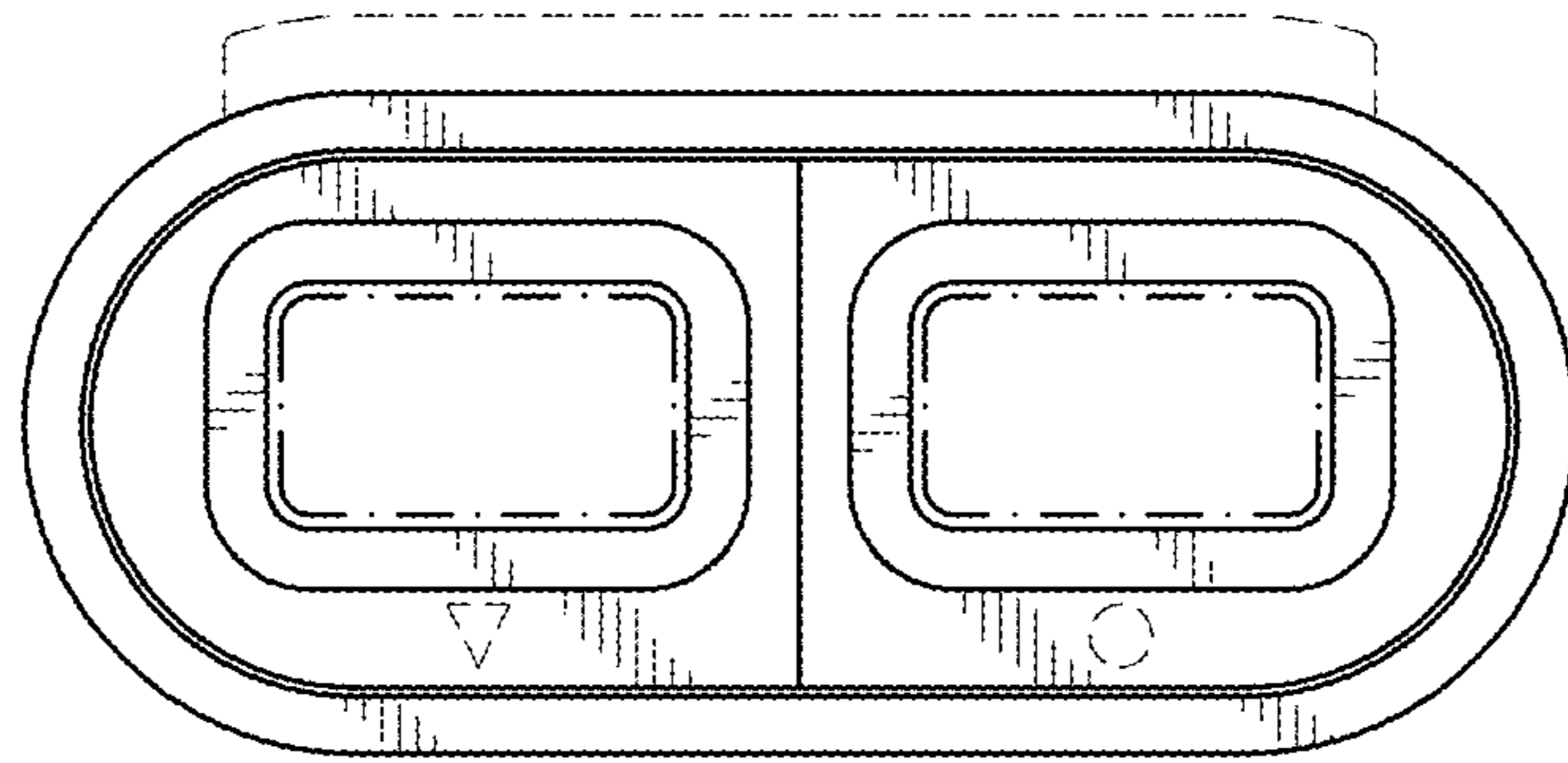


FIG. 11

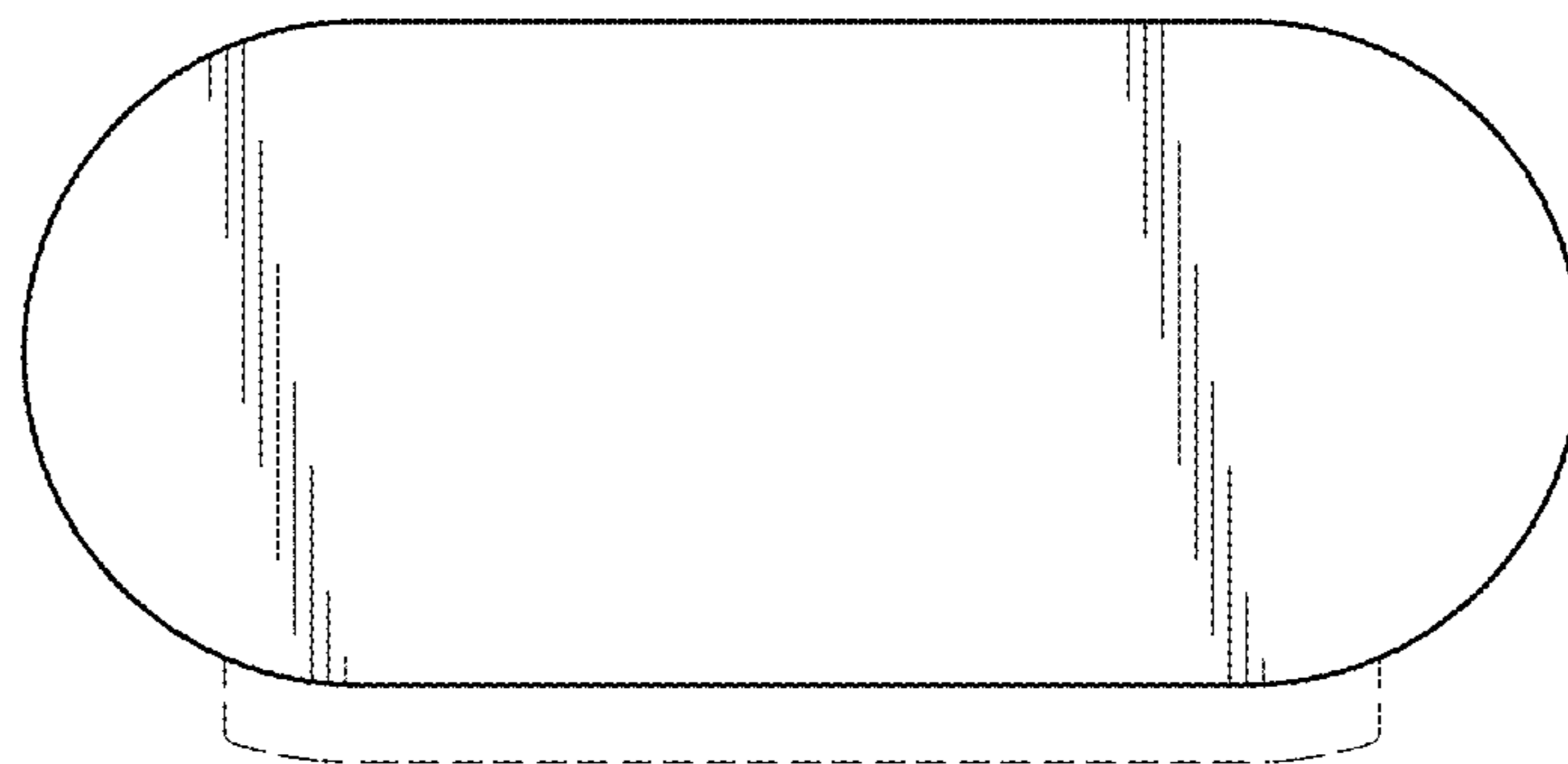


FIG. 12

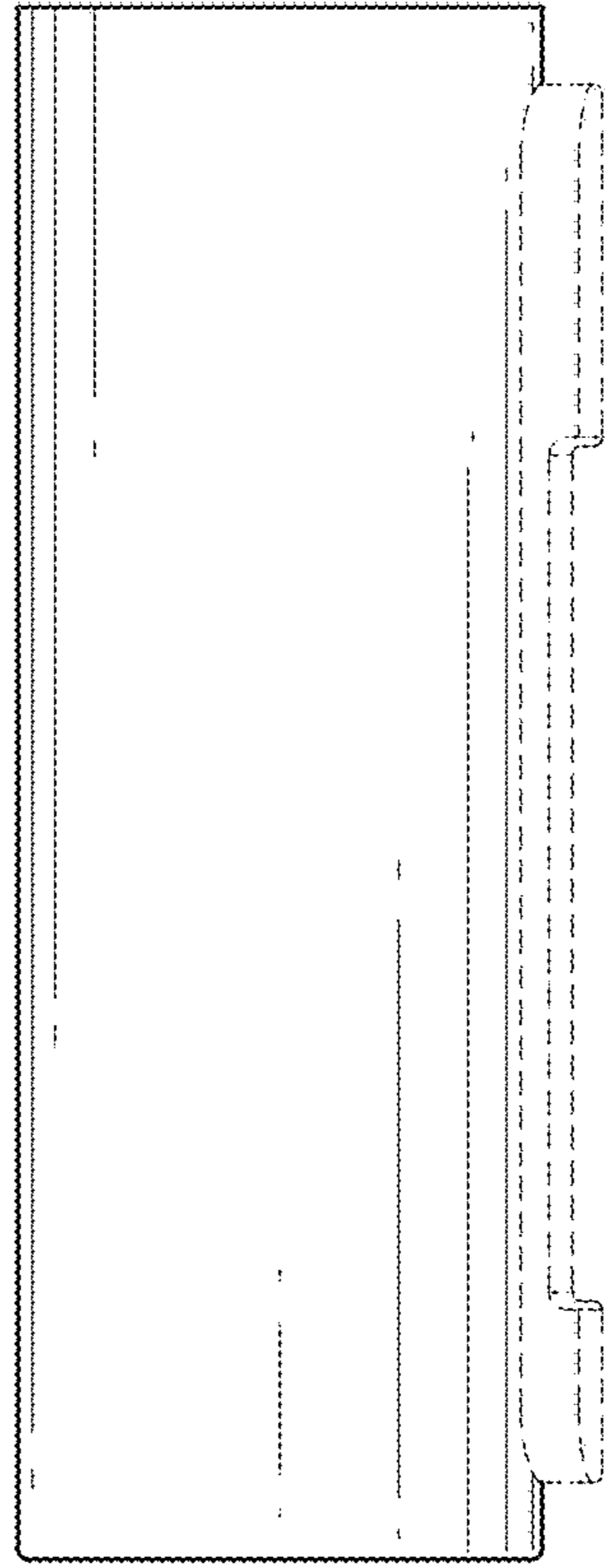


FIG. 13

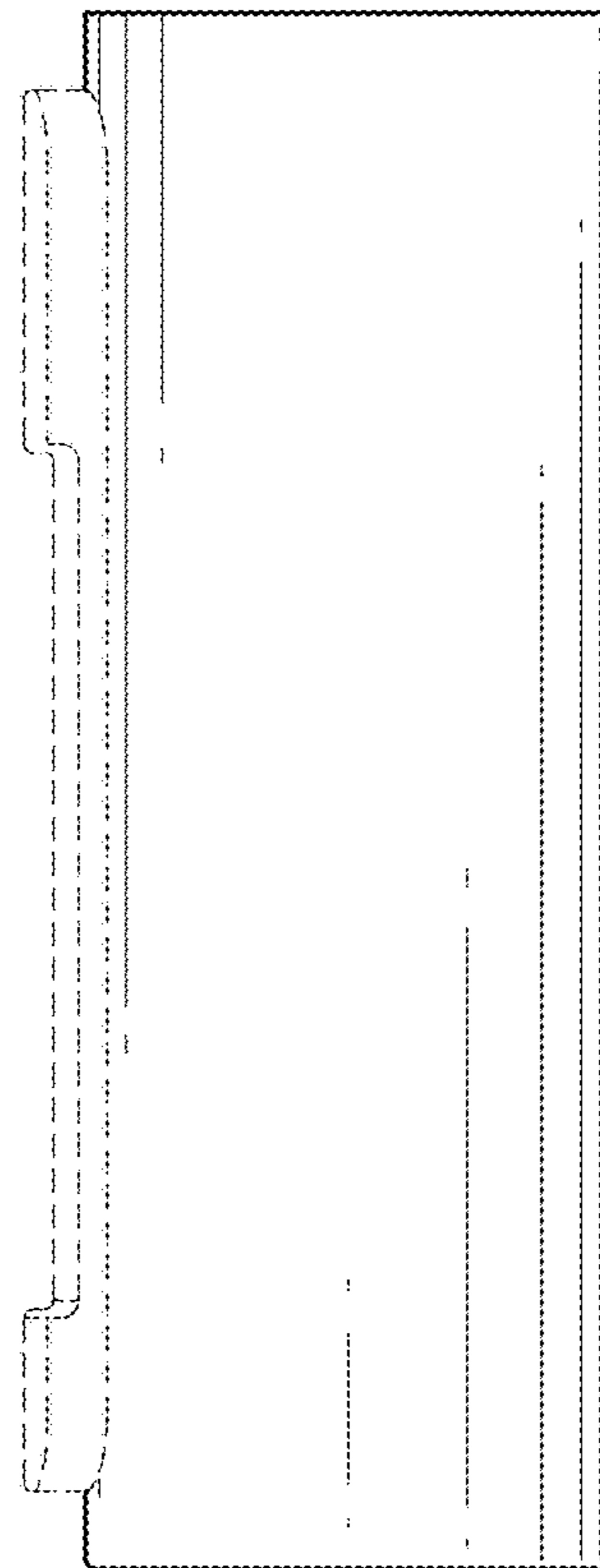


FIG. 14