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(12) **United States Design Patent** (10) **Patent No.:** **US D785,497 S**  
**Storey** (45) **Date of Patent:** **\*\* May 2, 2017**

(54) **MODULAR HYDROPONIC TOWER**

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(51) **LOC (10) Cl.** ..... **11-01**  
(52) **U.S. Cl.**  
USPC ..... **D11/143; 47/59 R; 47/59 S**  
(58) **Field of Classification Search**  
USPC ..... **D11/143, 144; D9/711**  
CPC ..... **A01G 31/06; A01G 9/023; A01G 31/005;**  
**A01G 31/00; A01G 31/02; A01G 9/02;**  
**A01G 9/047; A47F 1/08; A47B 81/00**  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

1,573,027 A \* 2/1926 Barbieri ..... A47F 1/08  
221/283  
1,576,010 A \* 3/1926 Swartz ..... A47F 1/08  
221/199  
2,062,755 A \* 12/1936 Lyons ..... A01G 31/02  
47/62 C  
5,147,119 A \* 9/1992 Harris ..... A47F 1/08  
211/59.2  
D347,170 S \* 5/1994 Due ..... D9/711  
8,327,582 B2 \* 12/2012 Storey ..... A01G 31/02  
47/39

(Continued)

**OTHER PUBLICATIONS**

Zip Grow Tower | Chris Michael | posted on Jun. 3, 2013, © 2015  
Agrotech, LLC, [online], [site visited Nov. 18, 2016]. Available

from Internet, <URL: <http://blog.brightagrotech.com/what-is-a-zipgrow-tower/>>.\*

(Continued)

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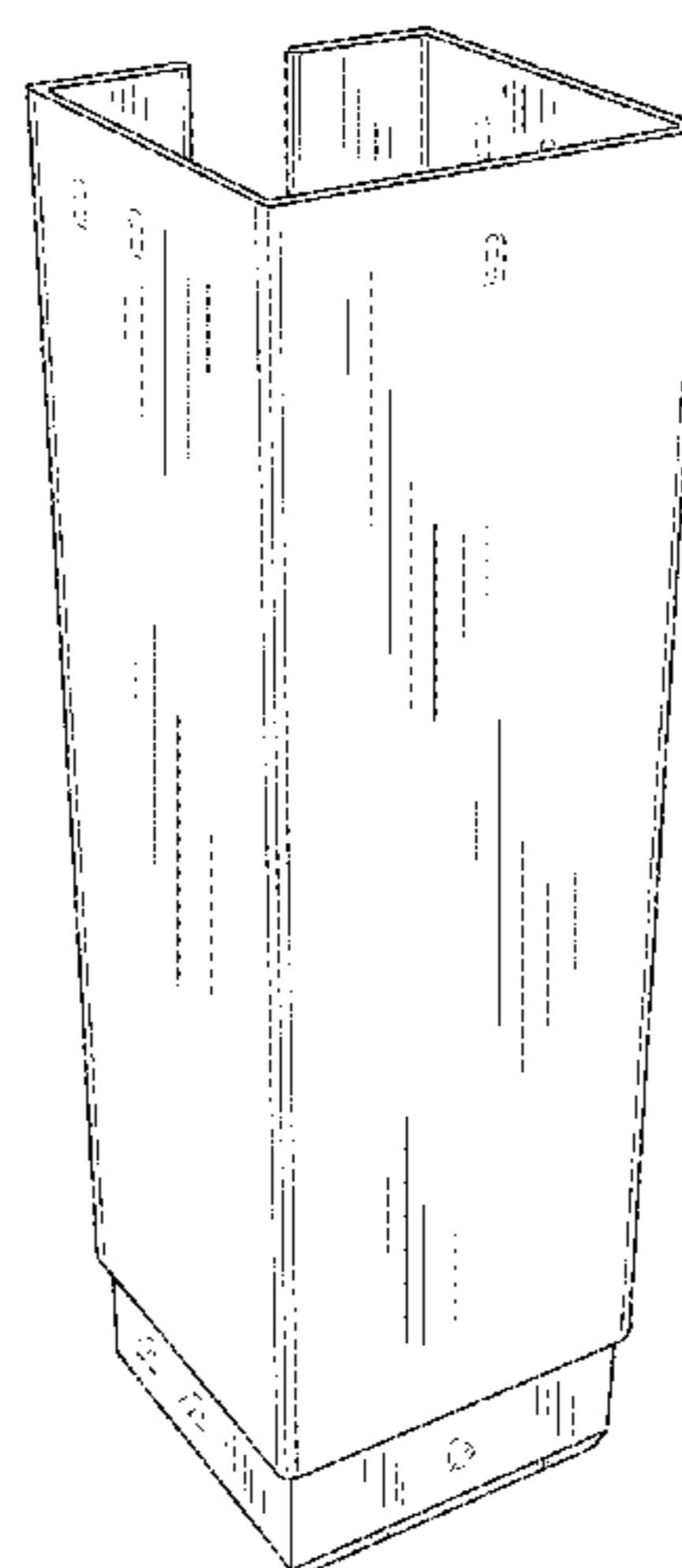
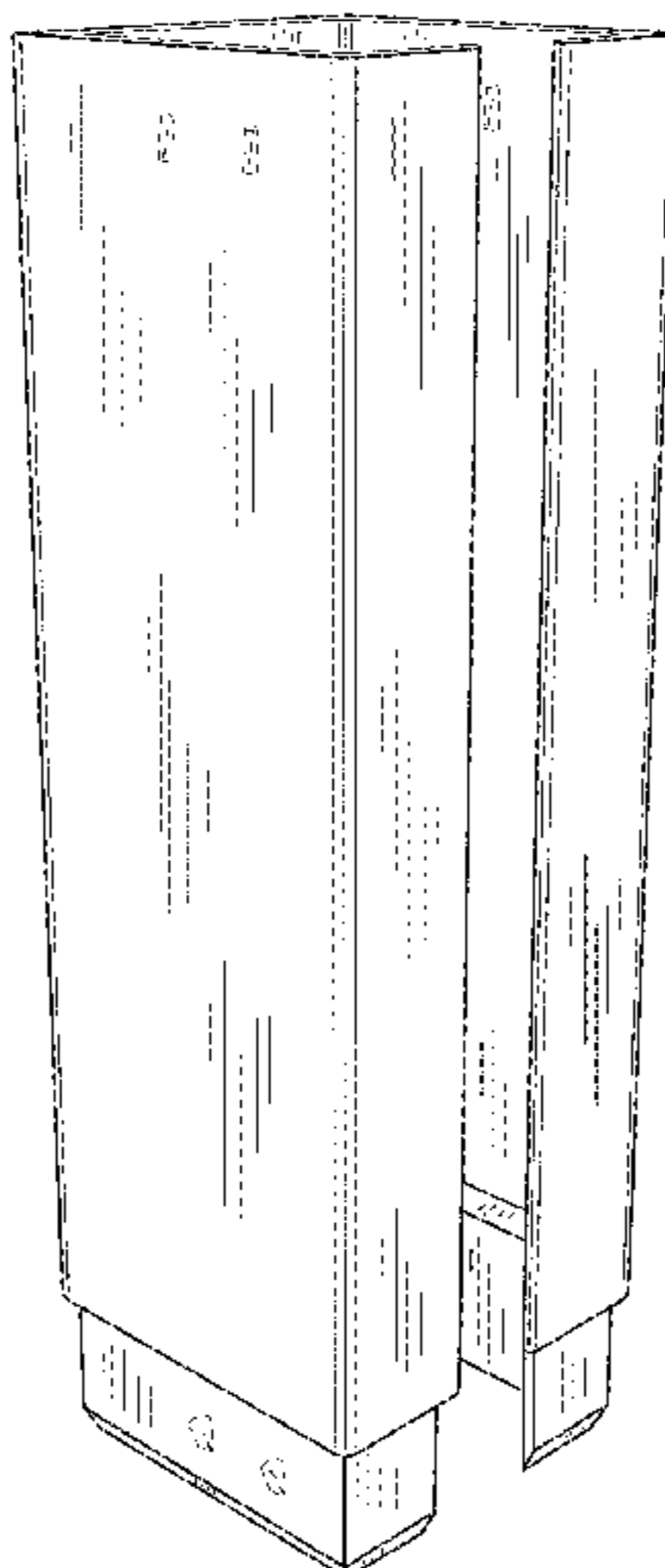
(57) **CLAIM**

The ornamental design for a modular hydroponic tower, as shown and described.

**DESCRIPTION**

FIG. 1 depicts a top perspective view of the front of a modular hydroponic tower.  
FIG. 2 depicts a top perspective view of the back of the modular hydroponic tower of FIG. 1.  
FIG. 3 depicts a front elevation view of the modular hydroponic tower of FIG. 1.  
FIG. 4 depicts a back elevation view of the modular hydroponic tower of FIG. 1.  
FIG. 5 depicts a left elevation view of the modular hydroponic tower of FIG. 1.  
FIG. 6 depicts a right elevation view of the modular hydroponic tower of FIG. 1.  
FIG. 7 depicts a top plan view of the modular hydroponic tower of FIG. 1.  
FIG. 8 depicts a bottom plan view of the modular hydroponic tower of FIG. 1; and,  
FIG. 9 depicts a top perspective view of the back of the modular hydroponic tower of FIG. 1, showing an irrigation tube applied to the outside of the modular hydroponic tower. The broken lines in the drawings illustrate environmental structure on the article and form no part of the claimed design.

**1 Claim, 9 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2014/0115960 A1\* 5/2014 Kantola ..... A01G 31/00  
47/66.7  
2015/0342127 A1\* 12/2015 Gallant ..... A01G 9/02  
47/20.1  
2015/0351536 A1\* 12/2015 Buenzow ..... A47F 1/08  
211/59.3

OTHER PUBLICATIONS

What is a Zip Grow Tower | Bright Agrotech | posted on May 24, 2013, © 2005-2016 YouTube, [online], [site visited Nov. 18, 2016]. Available from Internet, <URL: <https://www.youtube.com/watch?v=81GPqH74E94>>.\*

Zip Grow Tower, by Chris Michael, posted on Jun. 3, 2013. 2015 © Agrotech, LLC [online], [site visited Nov. 18, 2016]. Available from Internet, <URL: <http://blog.brightagrotech.com/what-is-a-zipgrow-tower/>>.\*

What is a Zip Grow Tower, Bright Agrotech posted on May 24, 2013 © 2005-2016 YouTube, [online], site visited Nov. 18, 2016. Available from Internet, <URL: <https://www.youtube.com/watch?v=81GPqH74E94>>.\*

Zip Grow, ReFarmers posted date unknown © 2015 ReFarmers, [online], site visited Nov. 18, 2016. Available from Internet, <URL: <http://www.refarmshop.com/12-zipgrow-vertical-garden>>.\*

\* cited by examiner

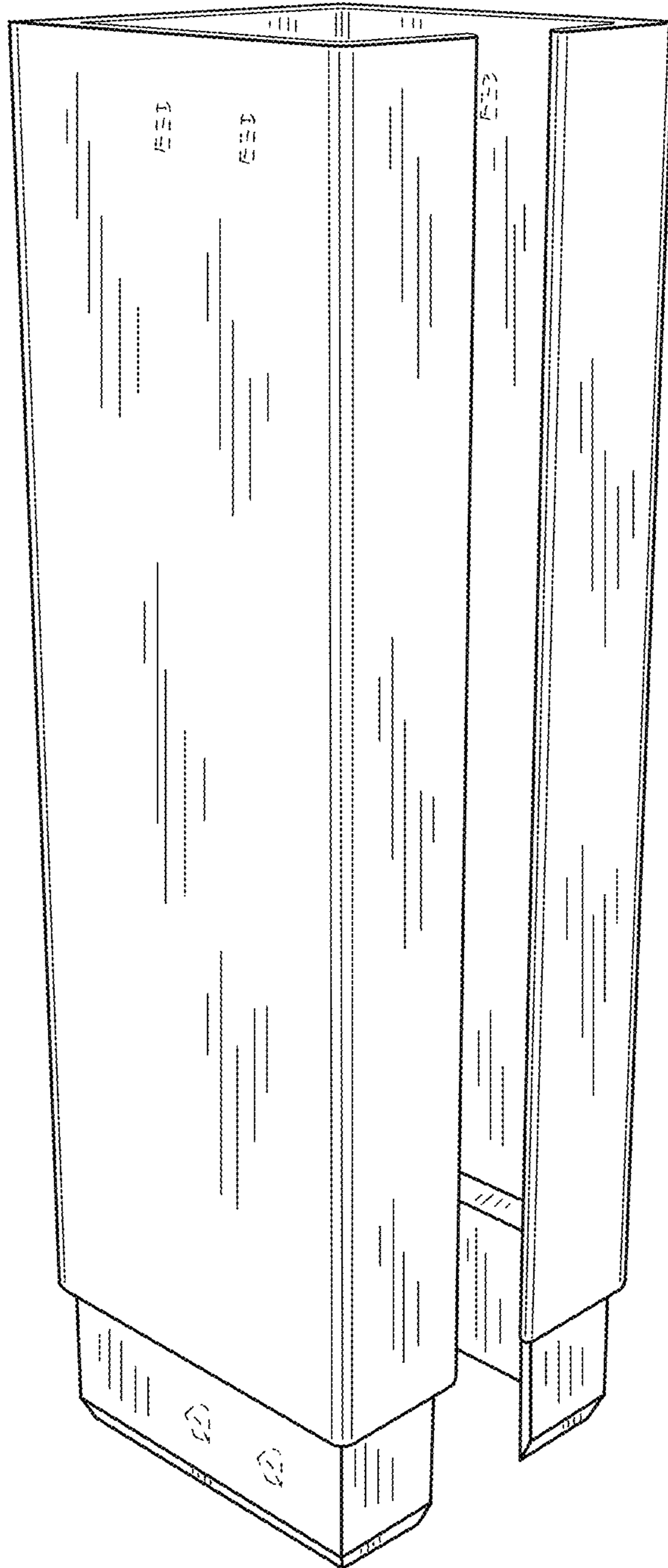


FIG.1

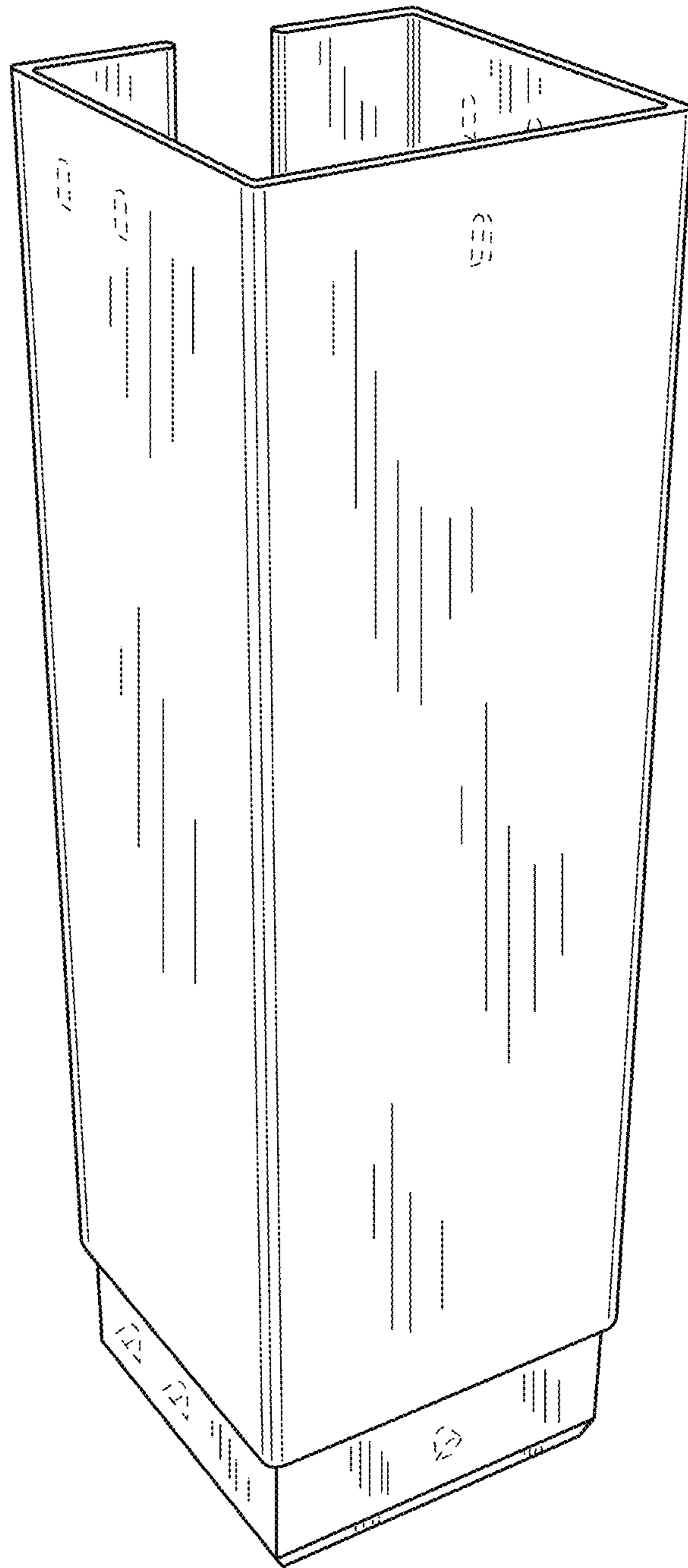


FIG.2

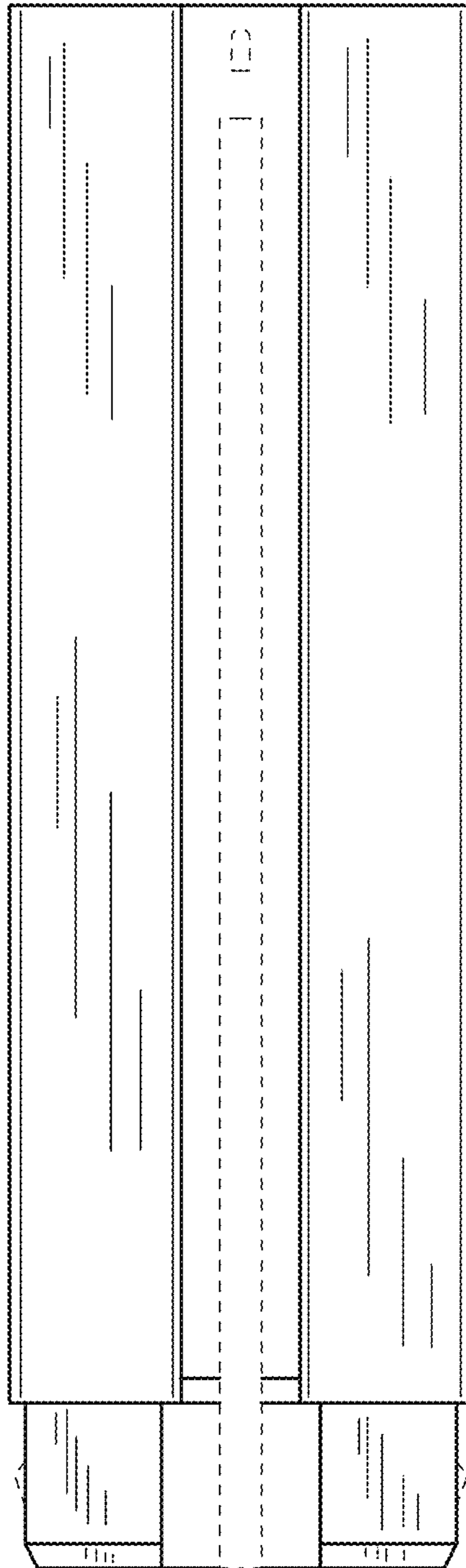


FIG.3



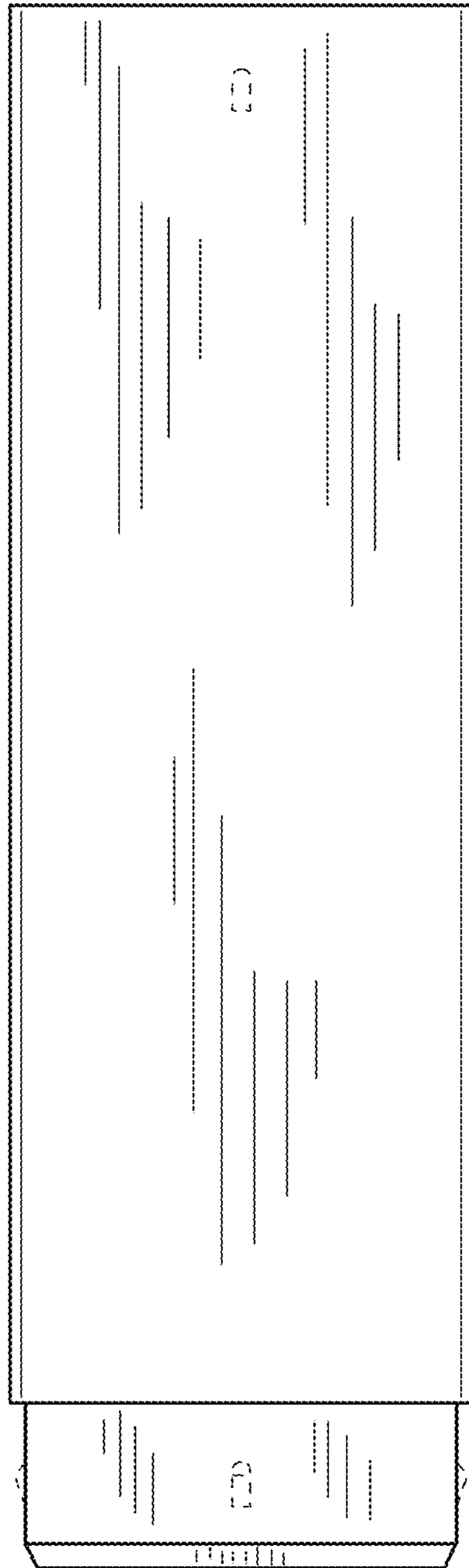


FIG.4

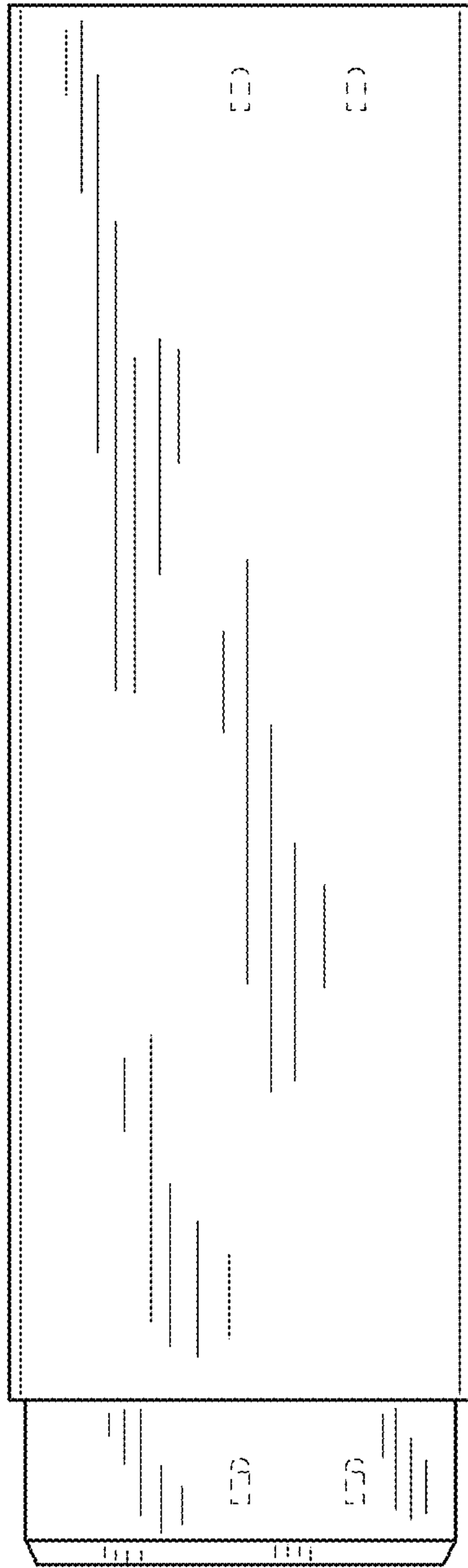


FIG.5

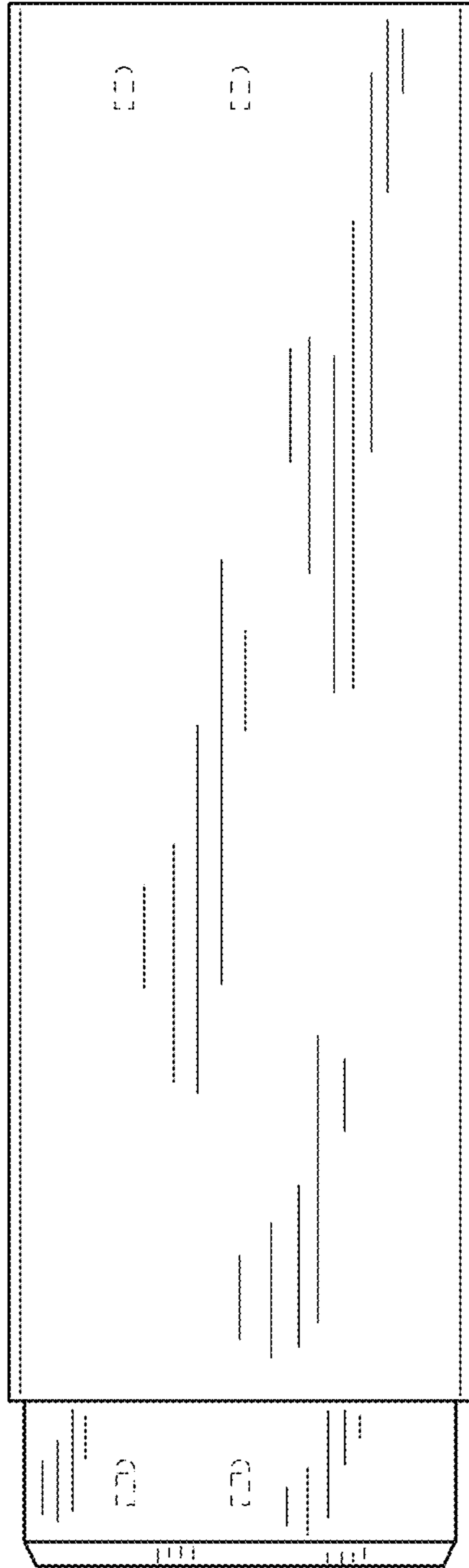


FIG.6



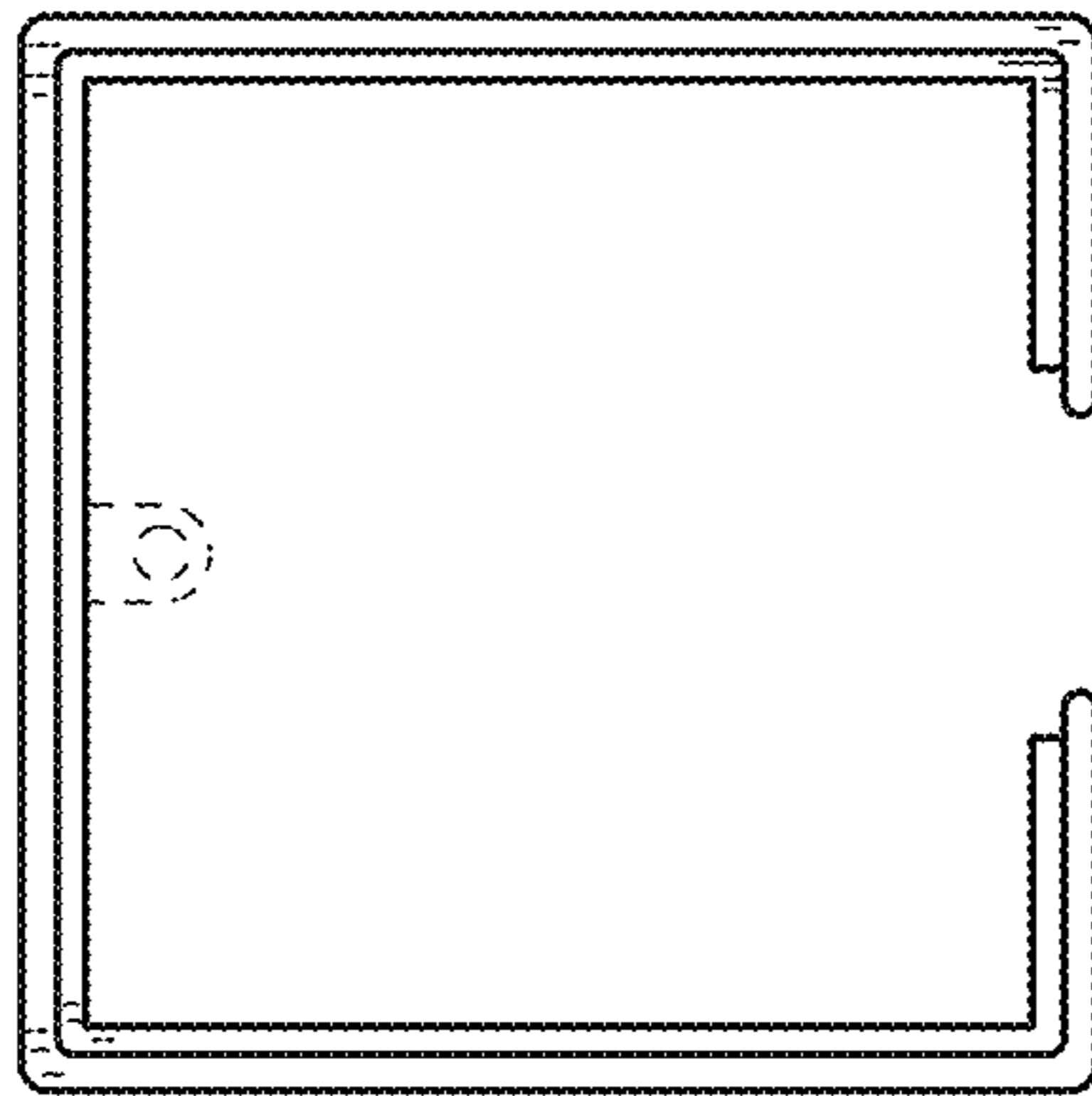


FIG.7

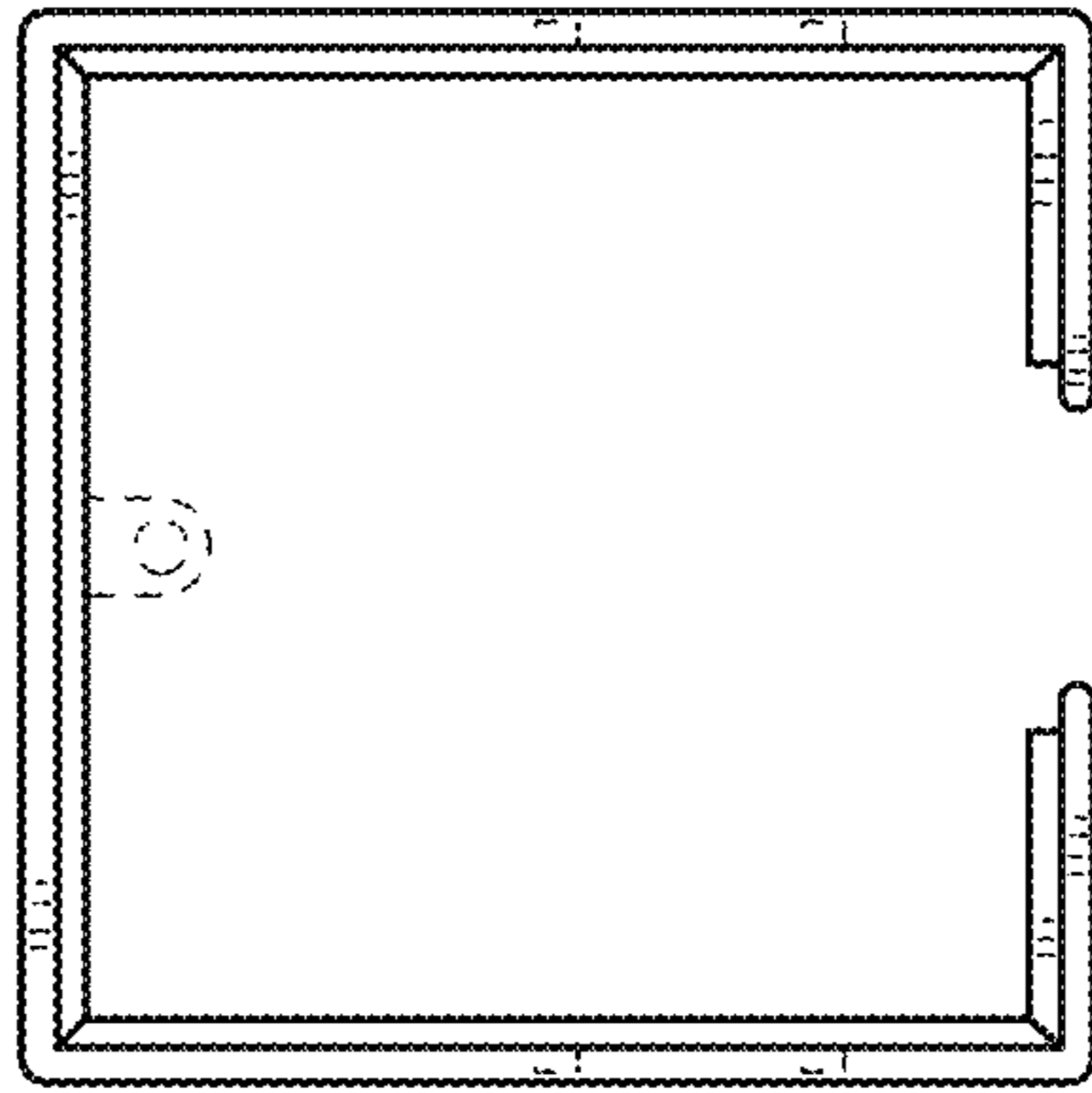


FIG.8

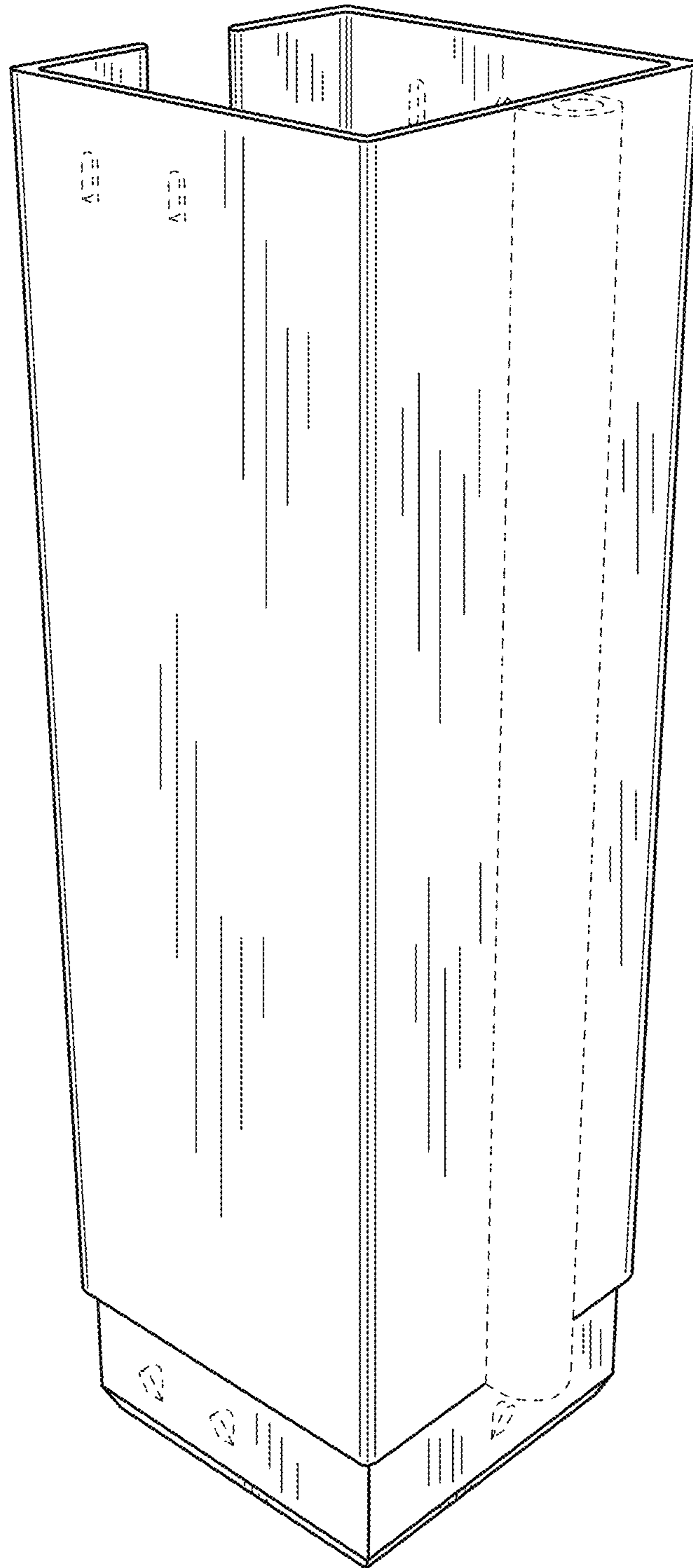


FIG.9