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

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- (54) **HOME ENERGY MANAGEMENT UNIT**
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- (73) Assignee: **LG Electronics Inc.**, Seoul (KR)
- (\*\*) Term: **15 Years**
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- D363,722 S \* 10/1995 Aldridge ..... D13/184
- D408,823 S \* 4/1999 Kirby ..... D13/184
- 6,052,603 A \* 4/2000 Kinzalow ..... H04B 1/3877  
455/557
- D509,151 S \* 9/2005 Takach ..... D10/50
- D556,061 S \* 11/2007 Rosen ..... D10/50
- D556,148 S \* 11/2007 Champness ..... D13/158
- D584,694 S \* 1/2009 Greitzke ..... D13/168
- D596,626 S \* 7/2009 Andre ..... D14/240
- D610,097 S \* 2/2010 Gandini ..... D13/171
- D626,099 S \* 10/2010 Huang ..... D14/125
- D644,222 S \* 8/2011 Woo ..... D14/365
- 8,519,566 B2 \* 8/2013 Recker ..... H02J 9/065  
307/64
- D705,201 S \* 5/2014 Isaacs ..... D14/240
- D705,989 S \* 5/2014 Levi ..... D24/133
- D705,992 S \* 5/2014 Levi ..... D24/133
- D715,228 S \* 10/2014 Lee ..... D13/158
- D772,085 S \* 11/2016 Howe ..... D10/50
- D776,873 S \* 1/2017 Levi ..... D24/133
- D780,728 S \* 3/2017 Shin ..... D14/242

(Continued)

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- (30) **Foreign Application Priority Data**  
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- (51) **LOC (11) Cl.** ..... **13-02**
- (52) **U.S. Cl.**  
 USPC ..... **D13/110**
- (58) **Field of Classification Search**  
 USPC ..... D13/110, 102, 158, 184, 168, 171;  
 D10/106.1, 50; D24/133; D14/240, 125,  
 D14/365, 242; 307/64; 705/2; 455/557  
 CPC .... H04B 1/3877; H02J 9/065; A61N 1/37258  
 See application file for complete search history.

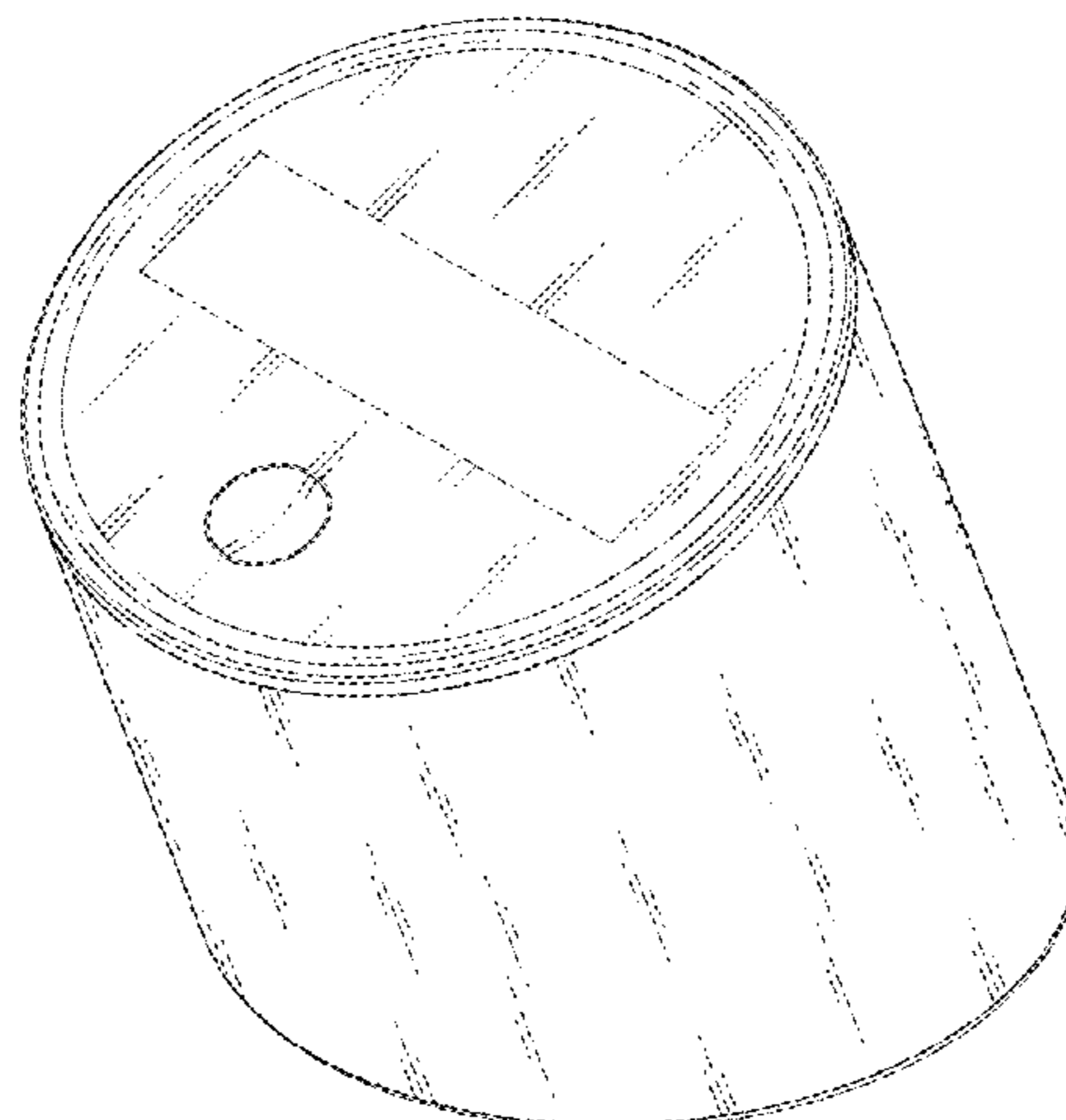
- (56) **References Cited**  
 U.S. PATENT DOCUMENTS  
 D255,030 S \* 5/1980 Holce ..... D13/158  
 D255,482 S \* 6/1980 Trautner ..... D13/102  
 D305,881 S \* 2/1990 Bergeron ..... D10/106.1

(57) **CLAIM**  
The ornamental design for a home energy management unit, as shown and described.

**DESCRIPTION**

1. Home energy management unit  
**1.1** is a front top perspective view;  
**1.2** is a front view;  
**1.3** is a rear view;  
**1.4** is side view;  
**1.5** is a side view;  
**1.6** is a top view and  
**1.7** is a bottom view.  
 In the drawings, the broken lines are for the purpose of illustrating environment only and form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

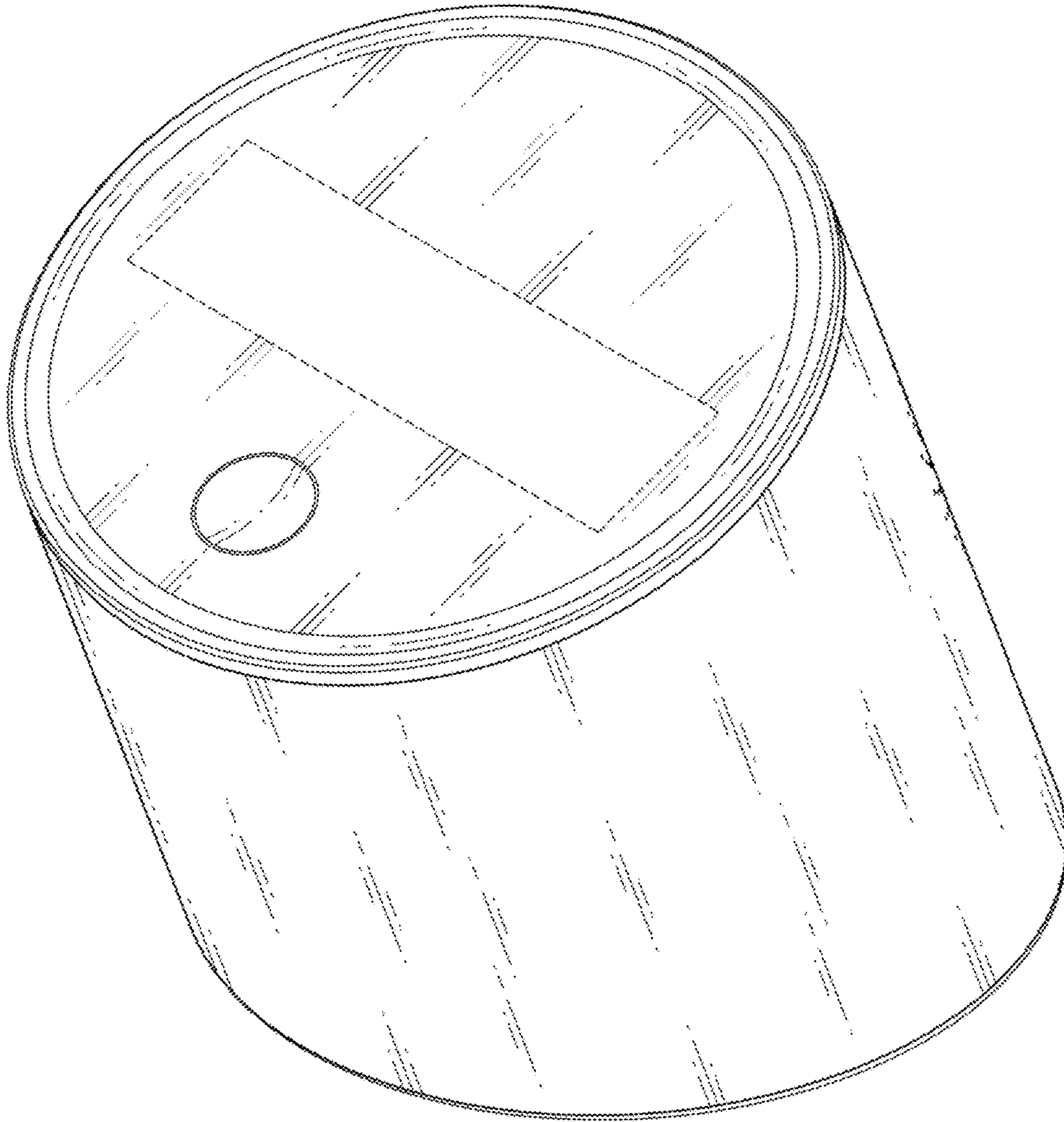
**References Cited**

U.S. PATENT DOCUMENTS

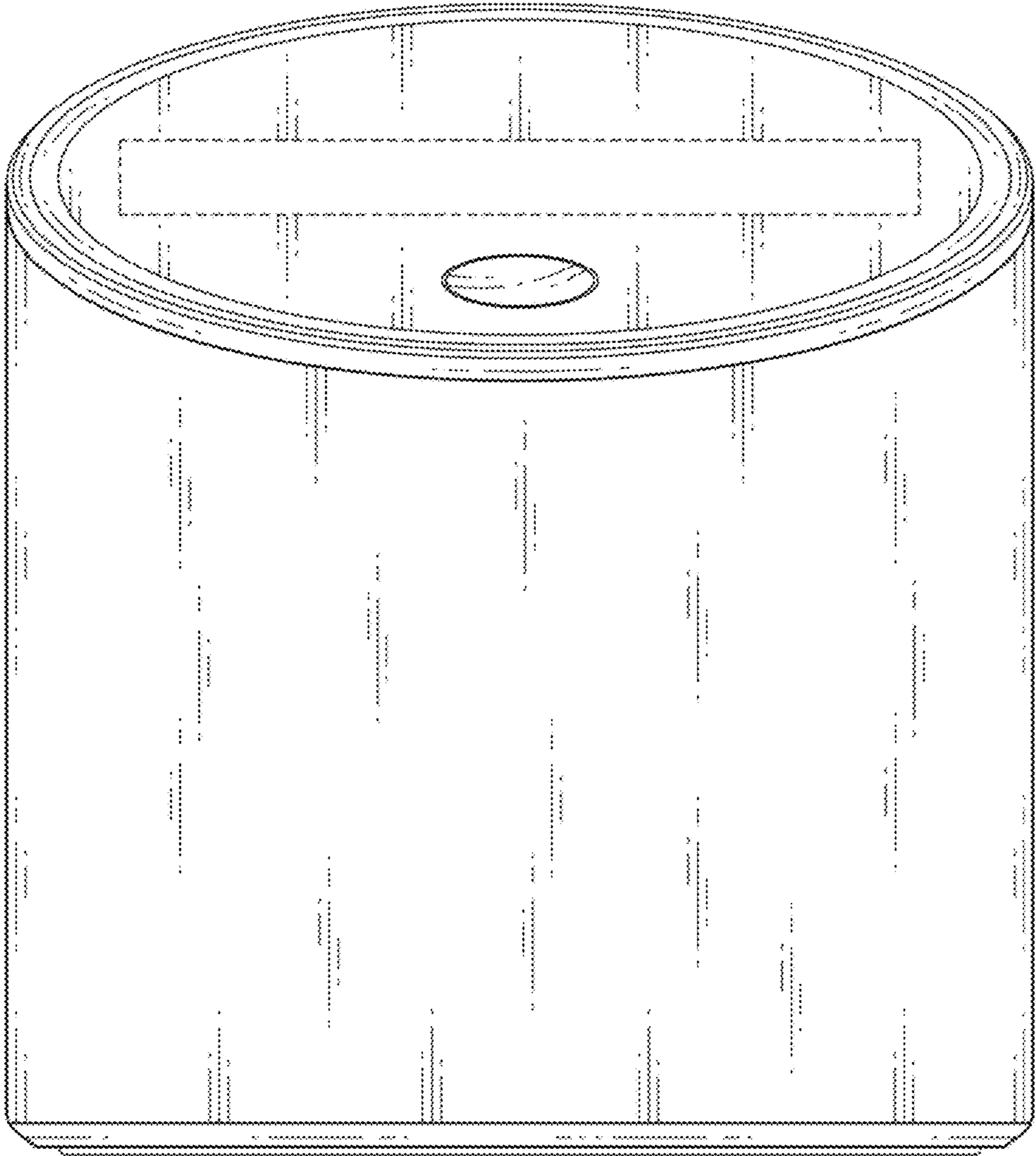
D789,604 S \* 6/2017 Levi ..... D24/133  
2005/0241026 A1 \* 10/2005 Esler ..... A61N 1/37258  
705/2

\* cited by examiner

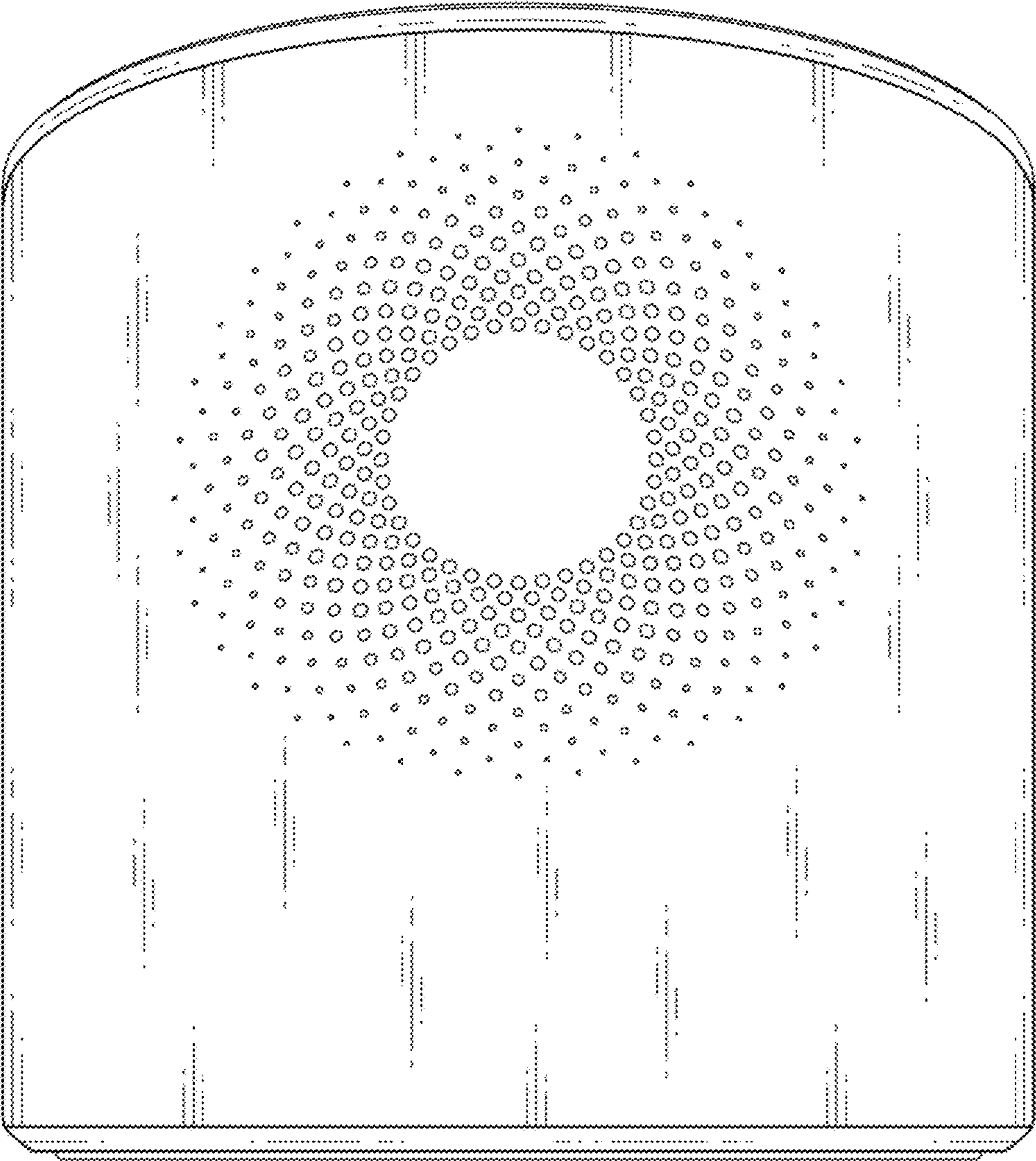
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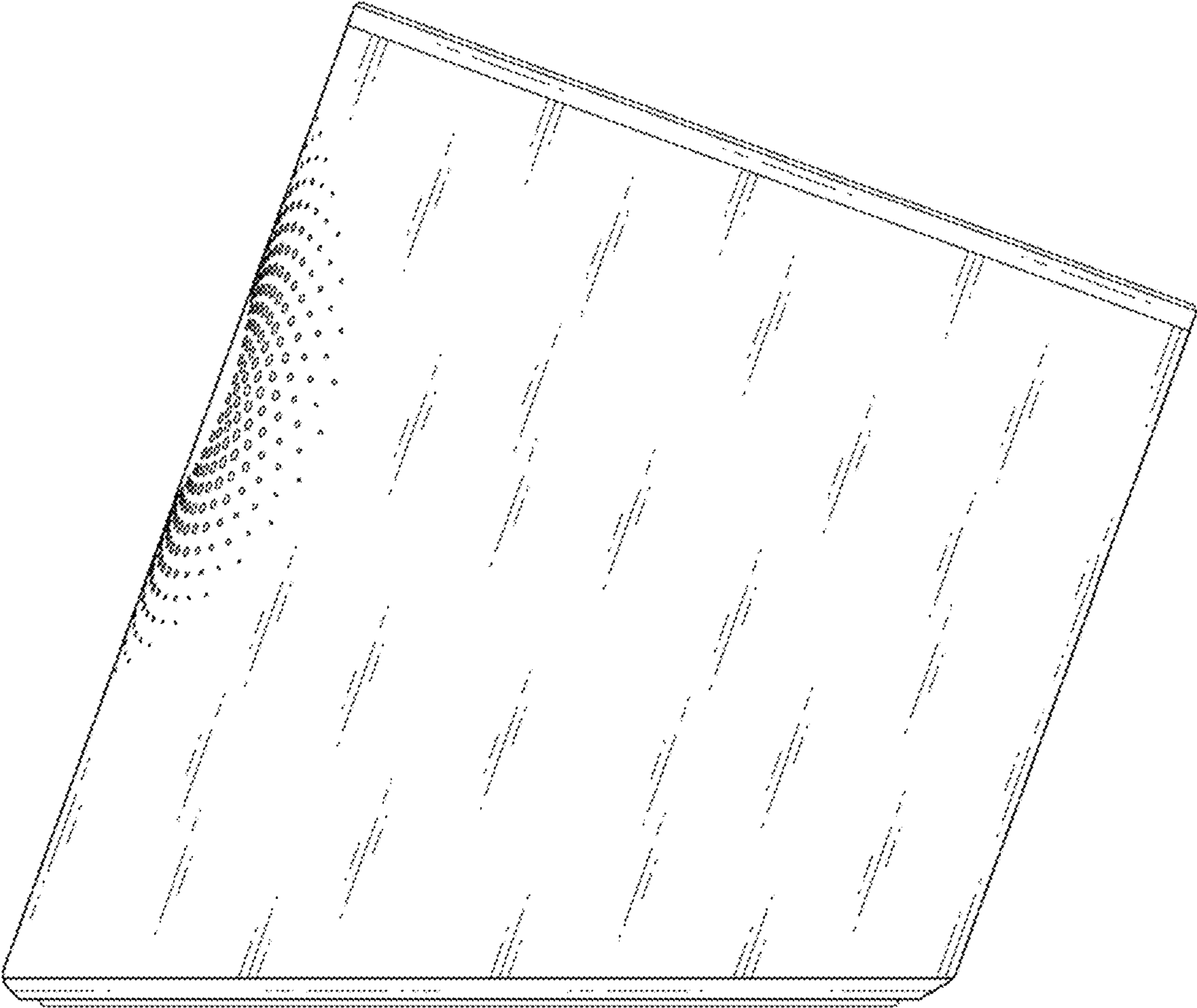
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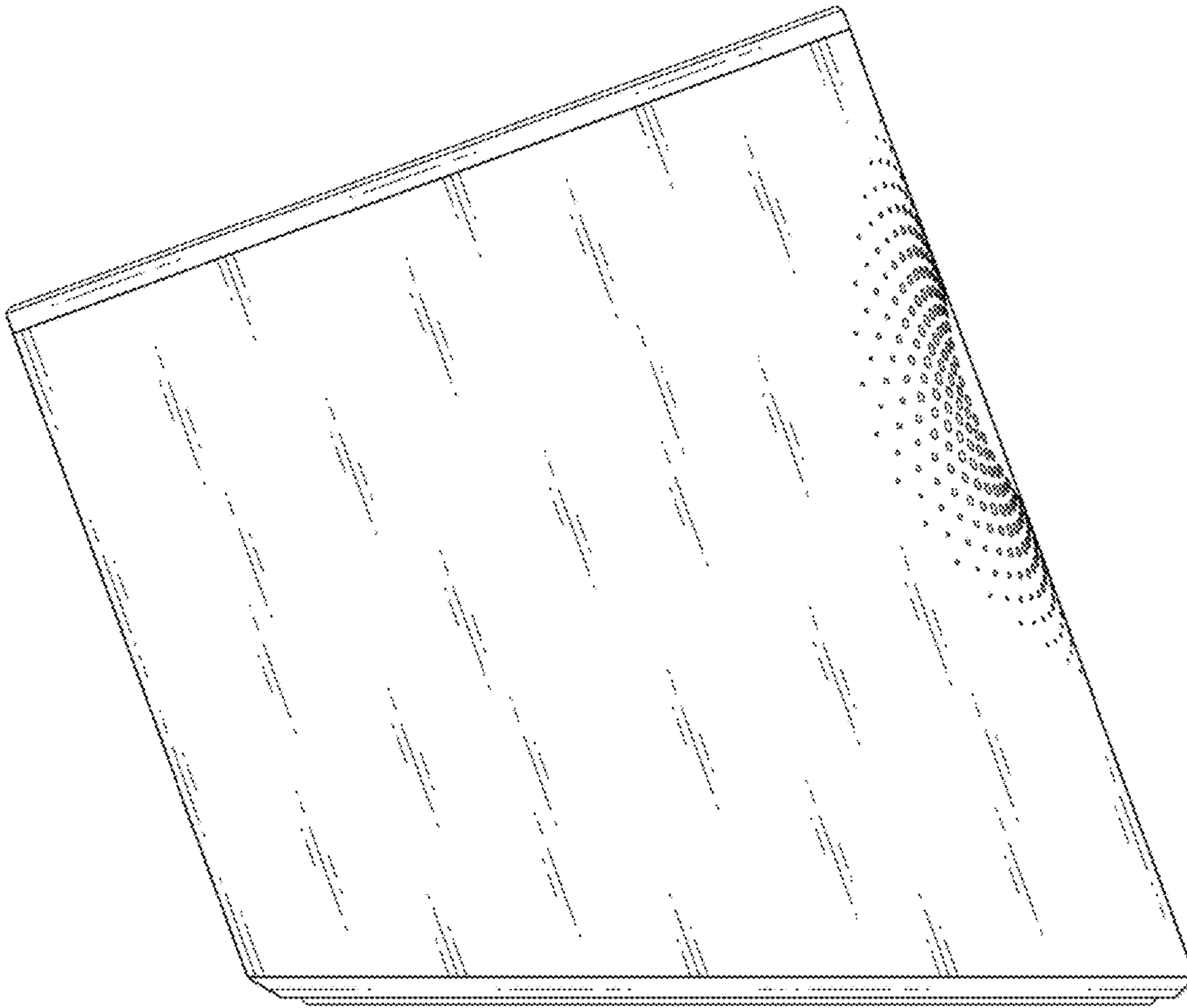
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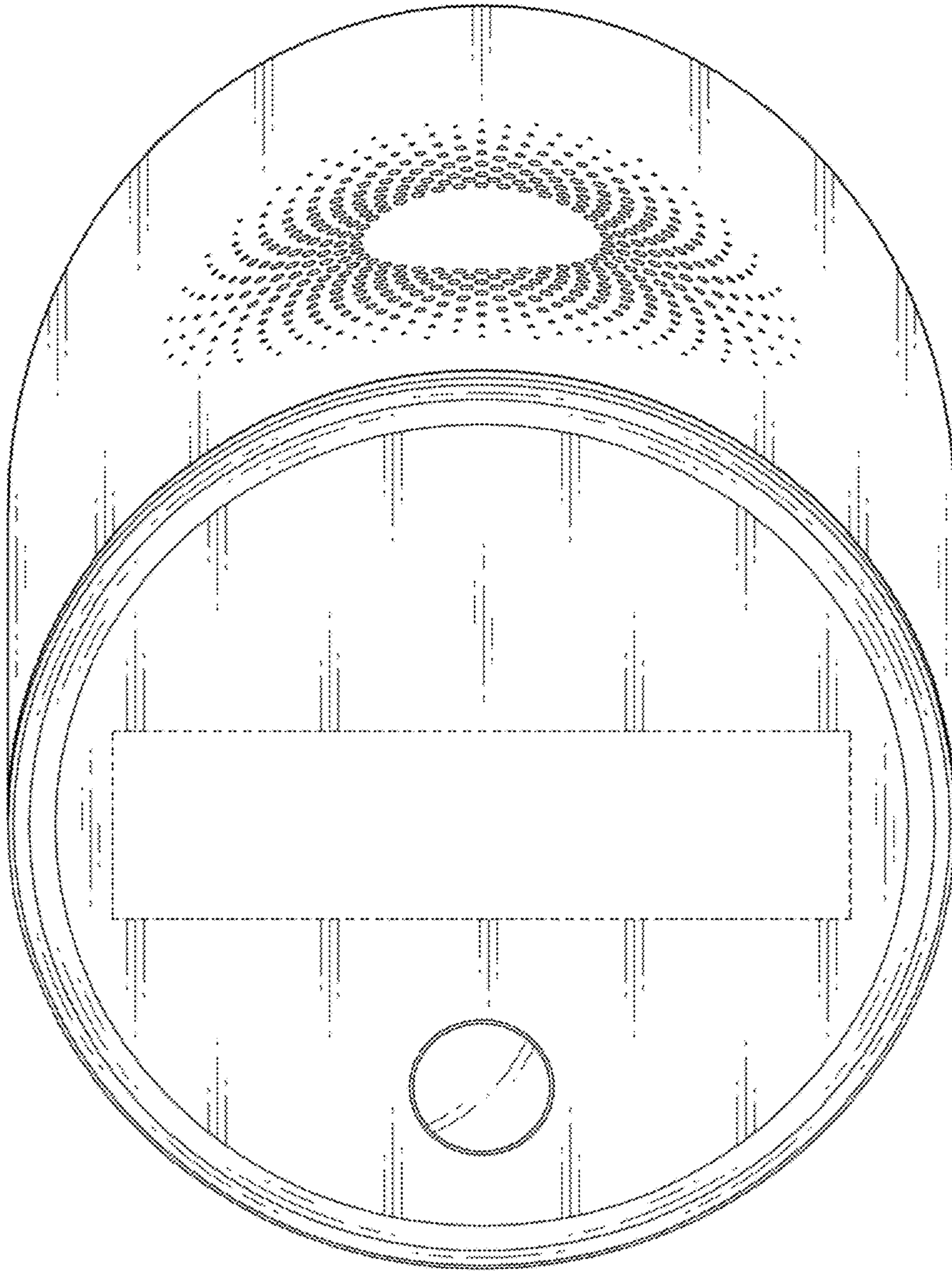
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1.5



1.6





1.7

