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(12) **United States Design Patent** (10) **Patent No.:** **US D857,915 S**  
**Sakai et al.** (45) **Date of Patent:** **\*\* Aug. 27, 2019**

(54) **CULTURE VESSELS**  
 (71) Applicant: **IHI CORPORATION**, Tokyo (JP)  
 (72) Inventors: **Shin-ichi Sakai**, Tokyo (JP); **Jun Tsujikawa**, Tokyo (JP)  
 (73) Assignee: **IHI Corporation**, Tokyo (JP)  
 (\*\*) Term: **15 Years**  
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 Jun. 6, 2017 (JP) ..... 2017-012128  
 Jun. 6, 2017 (JP) ..... 2017-012129  
 (51) **LOC (12) Cl.** ..... **24-02**  
 (52) **U.S. Cl.**  
 USPC ..... **D24/224**  
 (58) **Field of Classification Search**  
 USPC ..... D24/216–230; D9/500, 504, 537, 558;  
 D7/700

(Continued)

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*Assistant Examiner* — Calvin E Vasant

(74) *Attorney, Agent, or Firm* — Volpe and Koenig, P.C.

(57) **CLAIM**

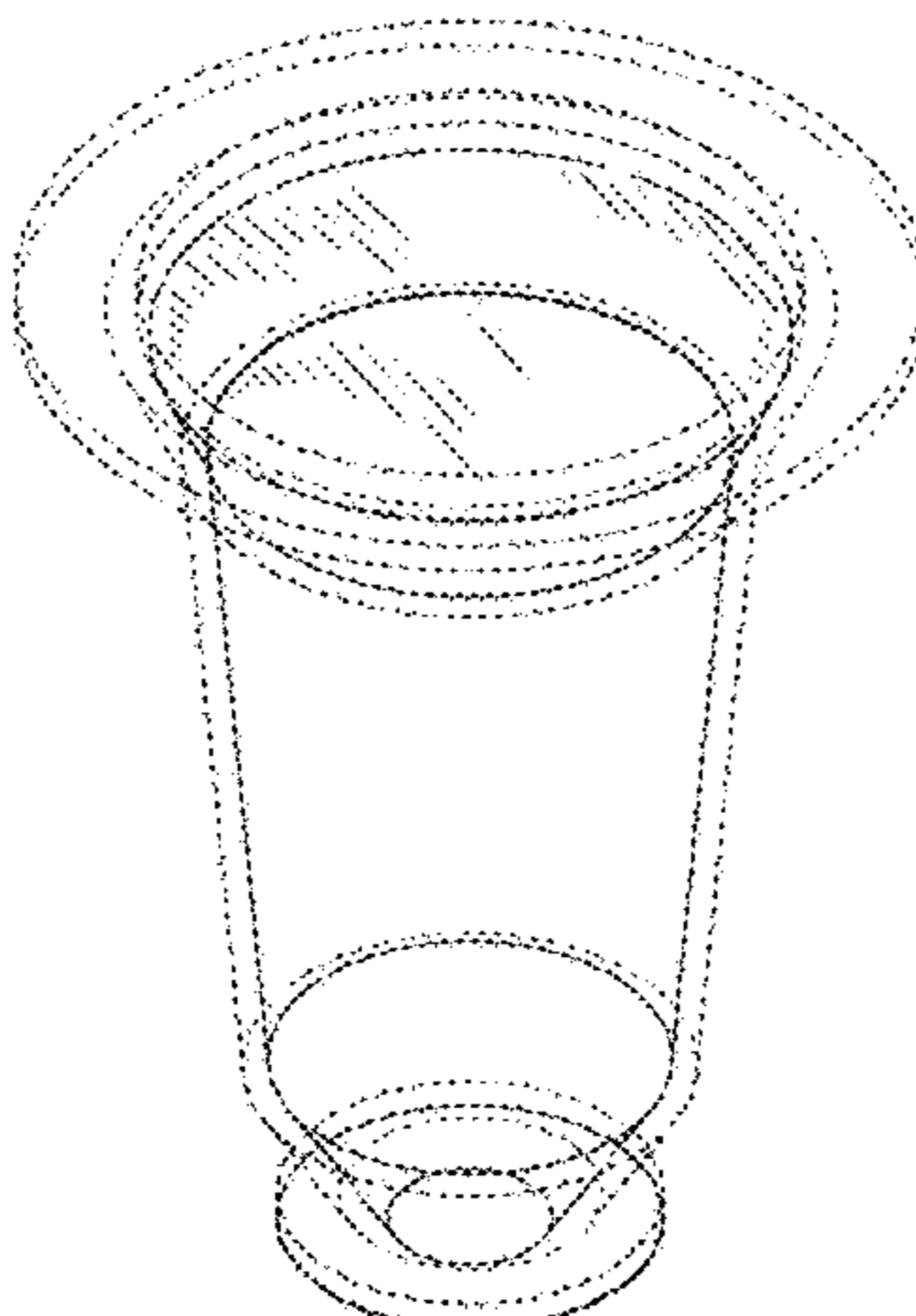
The ornamental design for a culture vessel, as shown and described.

**DESCRIPTION**

- 1.-3. Culture vessels
- 1.1 : Top perspective view
- 1.2 : Bottom perspective view
- 1.3 : Front
- 1.4 : Back
- 1.5 : Top
- 1.6 : Bottom
- 1.7 : Left
- 1.8 : Right
- 1.9 : Sectional view
- 1.10 : Reference view
- 2.1 : Top perspective view
- 2.2 : Bottom perspective view
- 2.3 : Front
- 2.4 : Back
- 2.5 : Top
- 2.6 : Bottom
- 2.7 : Left
- 2.8 : Right
- 2.9 : Sectional view
- 2.10 : Reference view
- 3.1 : Top perspective view
- 3.2 : Bottom perspective view
- 3.3 : Front
- 3.4 : Back
- 3.5 : Top
- 3.6 : Bottom
- 3.7 : Left
- 3.8 : Right
- 3.9 : Sectional view
- 3.10 : Reference view

Designs 1, 2 and 3: these articles are culture vessels used in culture apparatus for culturing cells such as those of animals and plants; the parts shown as solid lines are parts for which design registration is sought; the broken lines depict environmental subject matter only, and form no part of the

(Continued)



claimed designs; lines consisting of alternating long and short dashes in the drawings are used to distinguish the inventive design claimed herein from unclaimed parts; these articles are transparent; the surfaces of these articles are transparent surfaces through which objects on the other side of such transparent surfaces are distinctly seen; the diagonal surface shading lines indicate that the surfaces of the claimed designs are transparent; the inside surfaces shown as solid lines may be seen through the outside surfaces that form no part of the claimed design because the outside surfaces are transparent; design 1: reproduction 1.9 is a cross-sectional view through the center of reproduction 1.3; reproduction 1.10 is a reference sectional view showing state in use; Design 2: reproduction 2.9 is a cross-sectional view through the center of reproduction 2.3; reproduction 2.10 is a reference sectional view showing state in use; design 3: reproduction 3.9 is a cross-sectional view through the center of reproduction 3.3; reproduction 3.10 is a reference sectional view showing state in use.

**1 Claim, 30 Drawing Sheets**

(58) **Field of Classification Search**

CPC ..... C12M 23/04; C12M 23/06; C12M 23/08;

G01N 21/03; G01N 2021/0303; G01N 2021/0321; G01N 2021/0339; G01N 2021/0378; B01L 3/508

See application file for complete search history.

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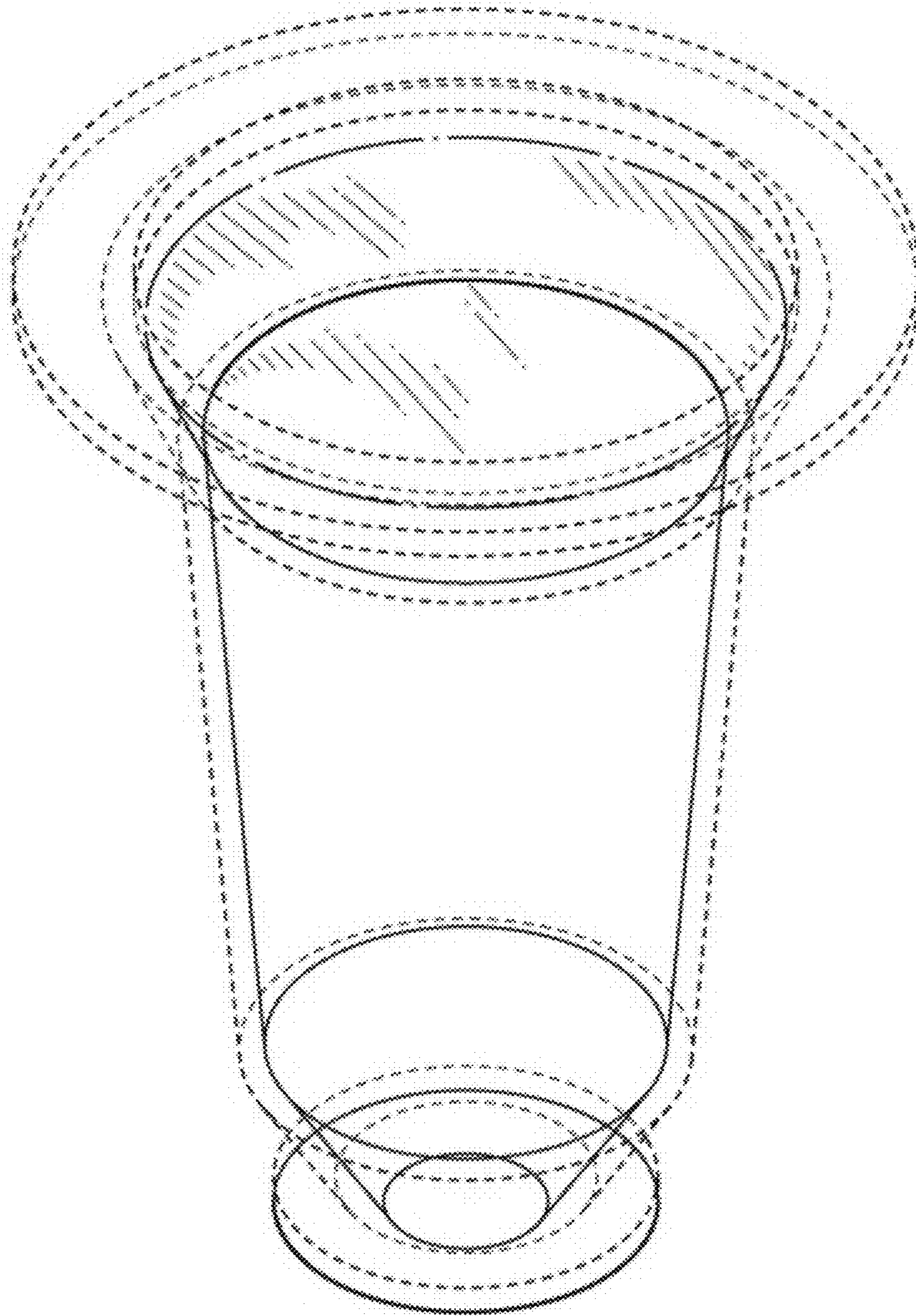
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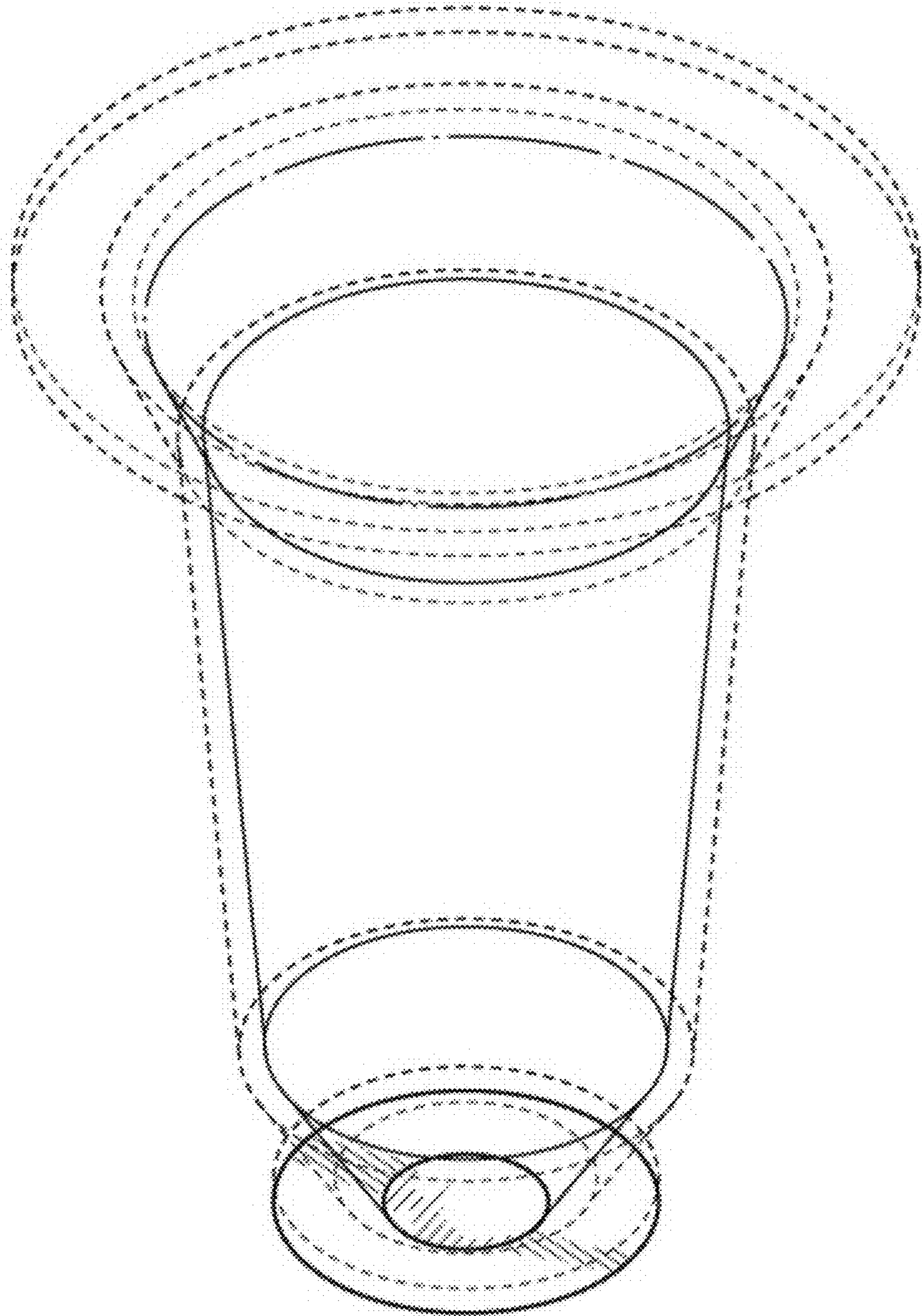
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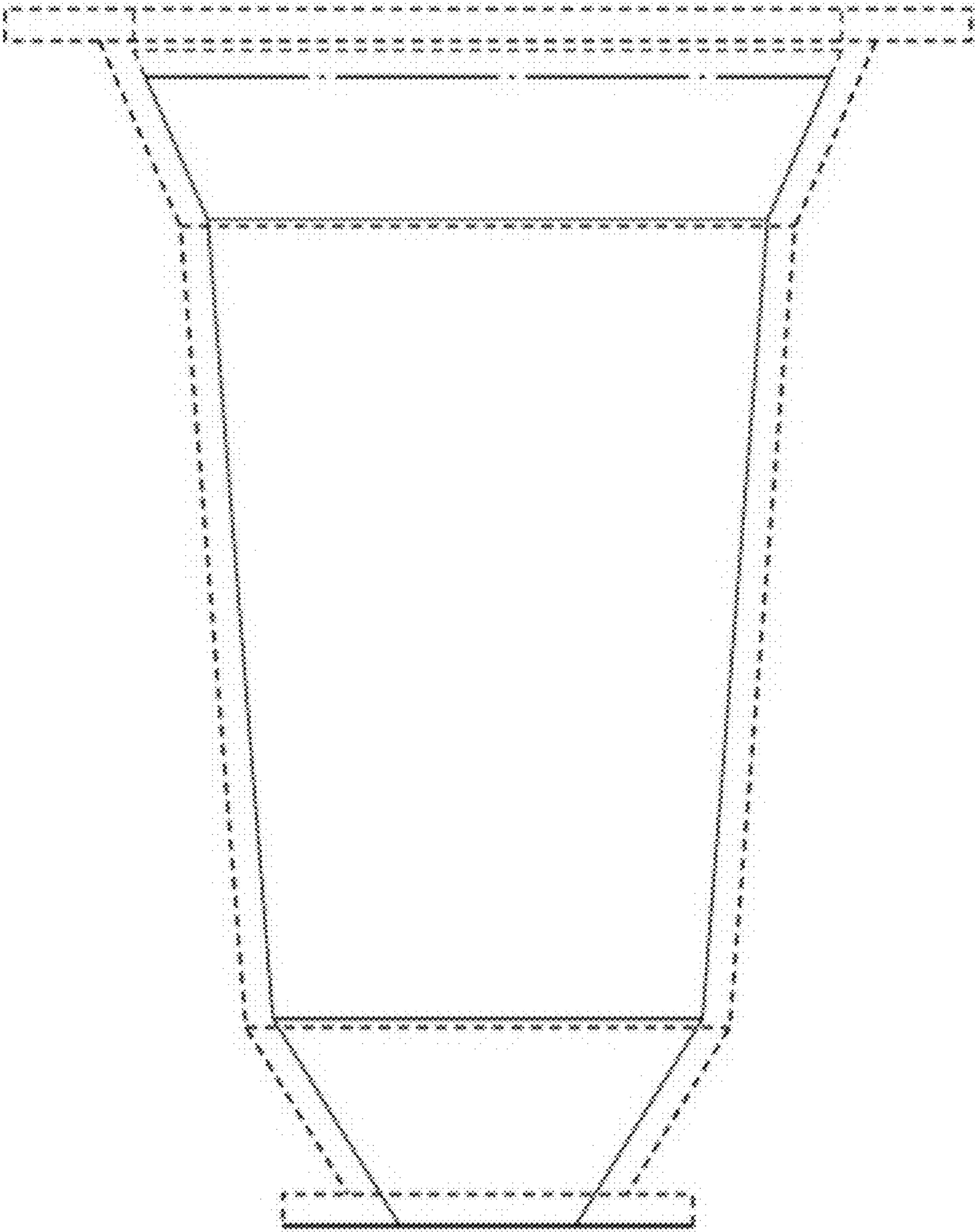
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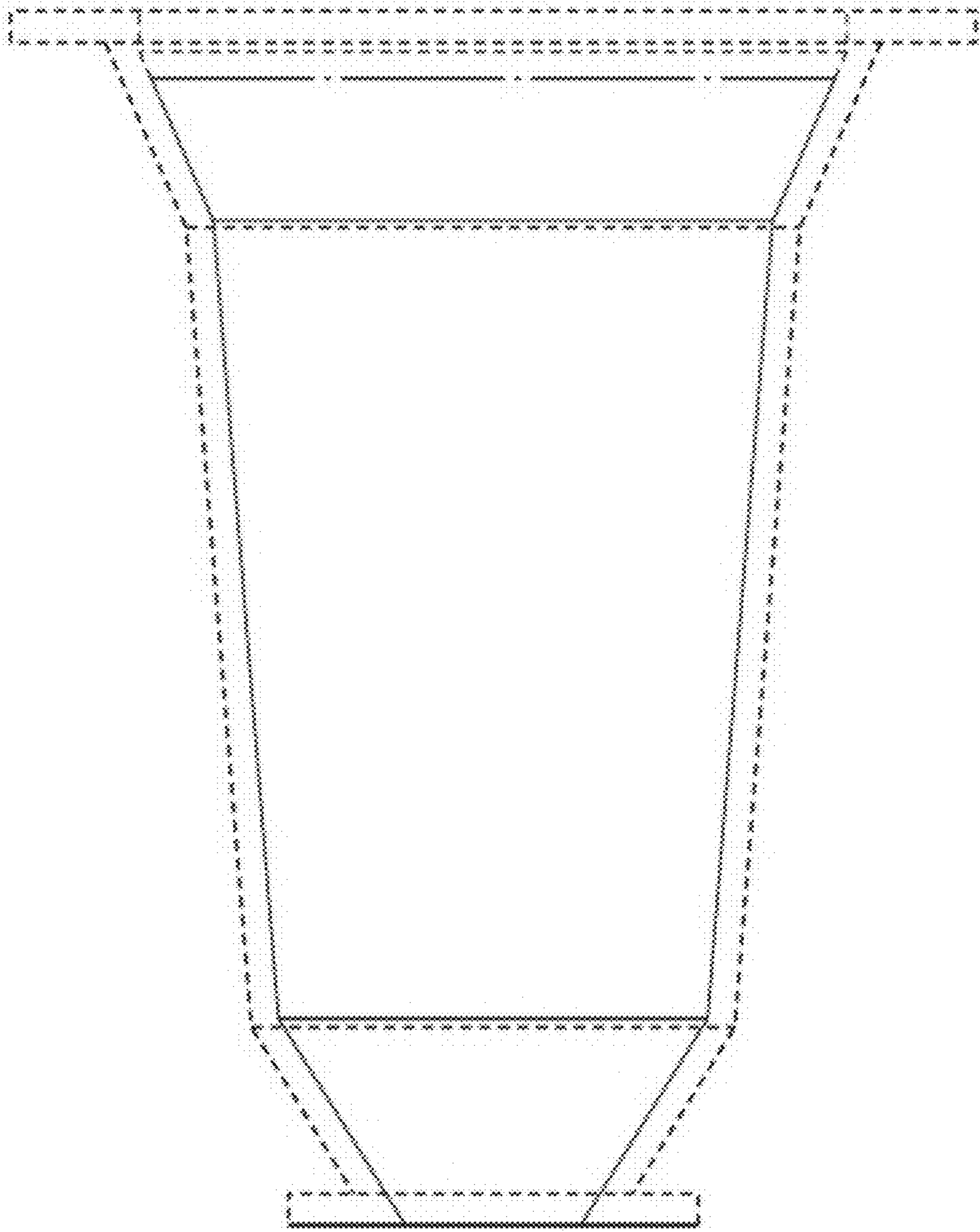
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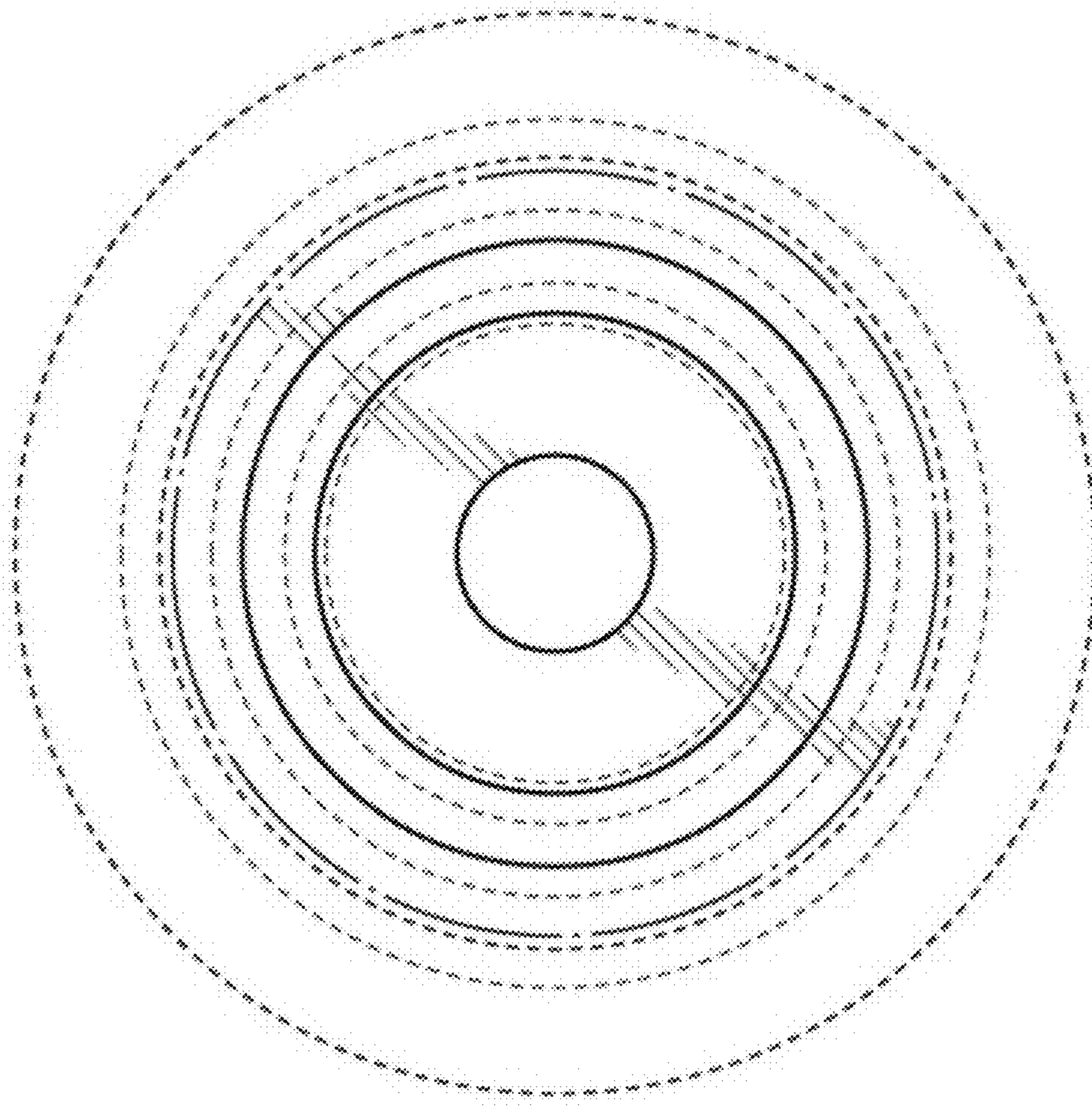
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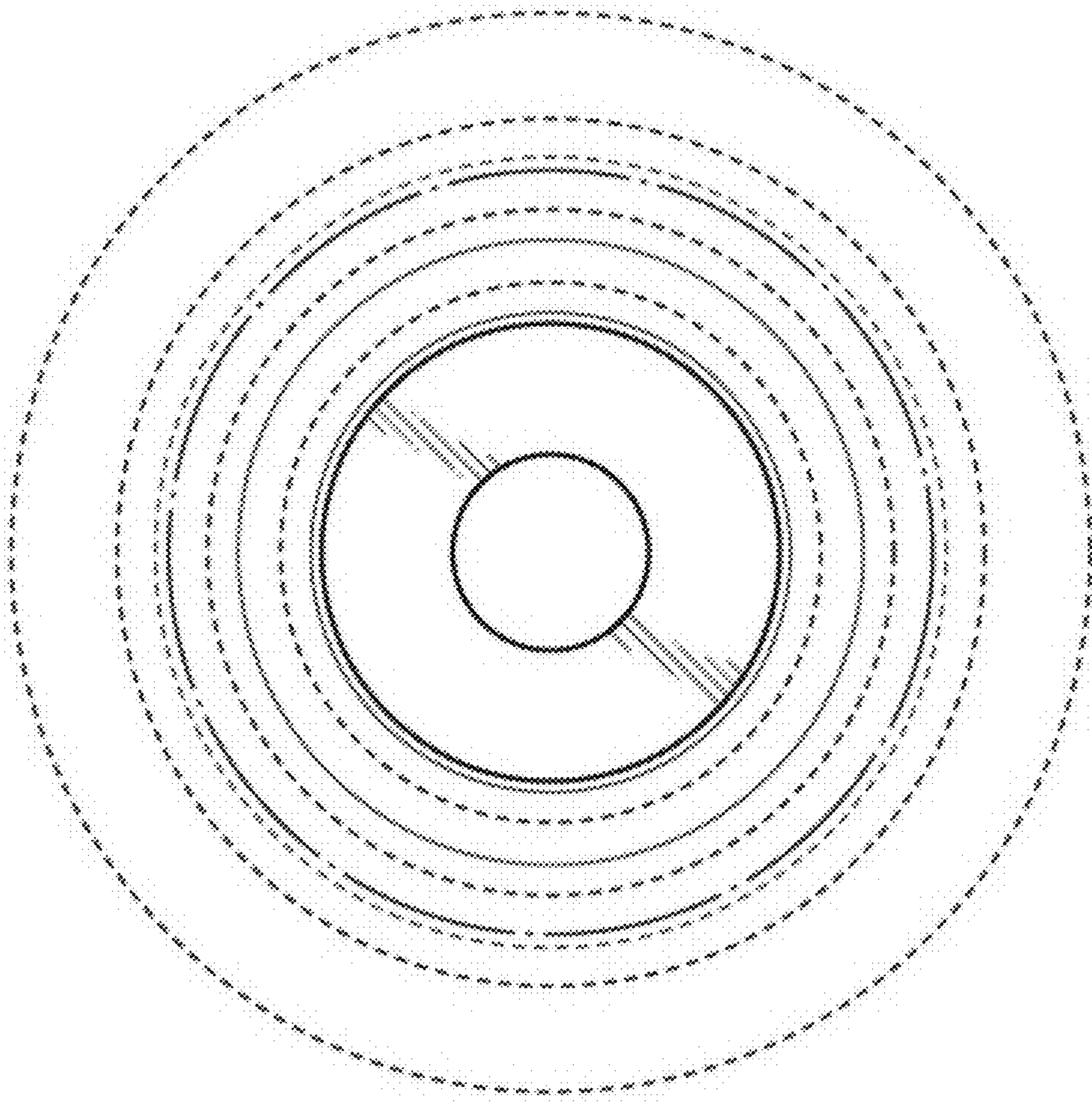
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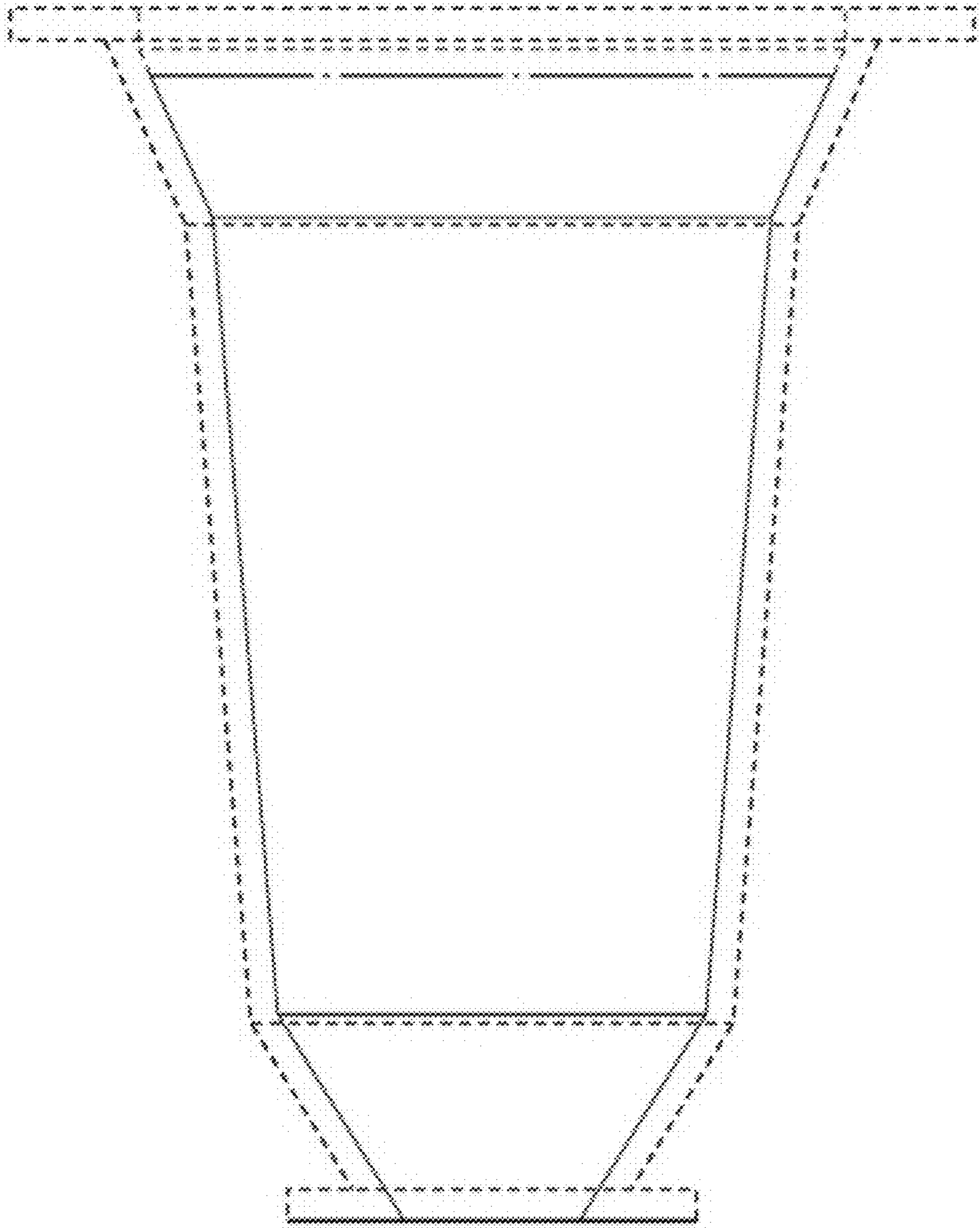


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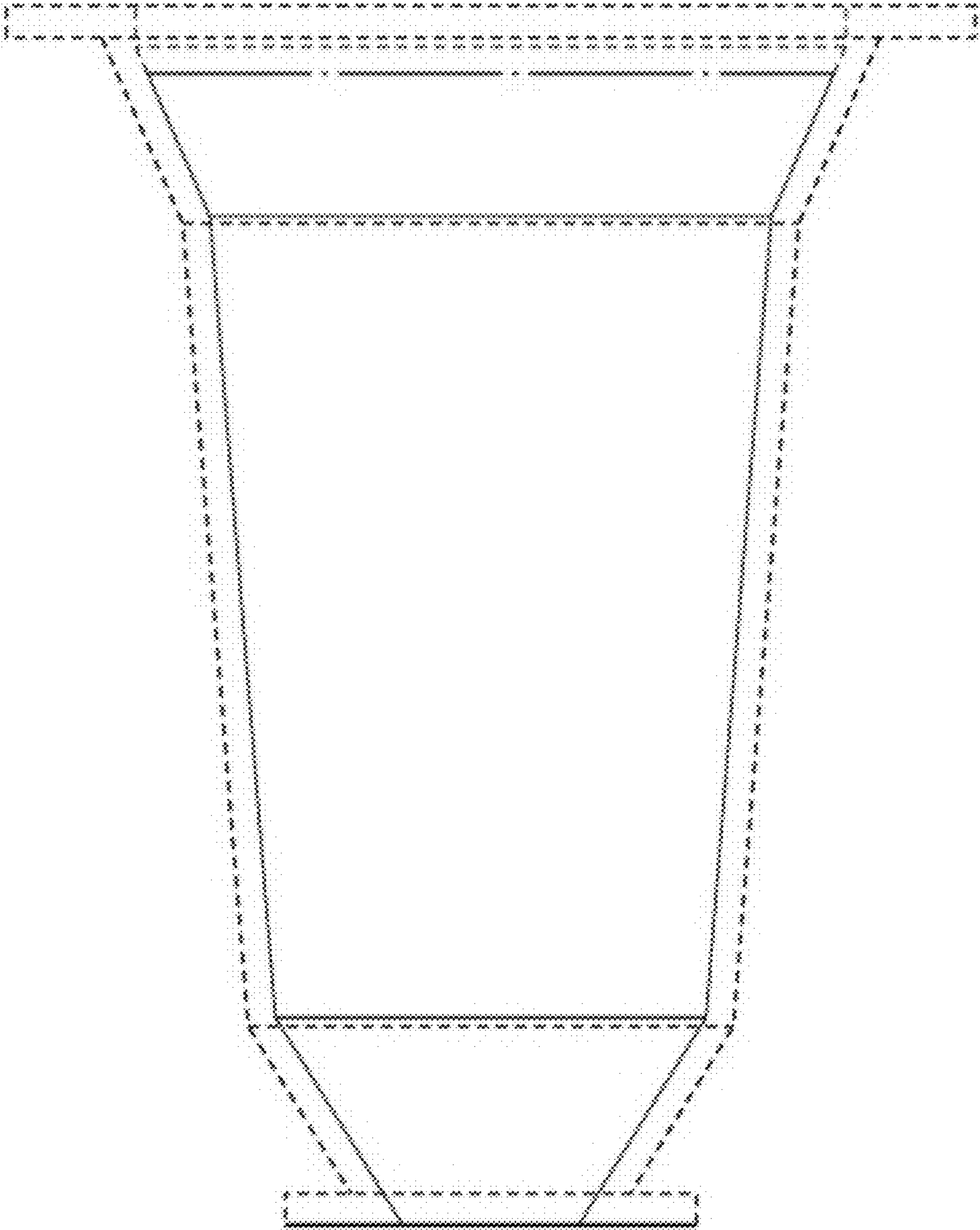




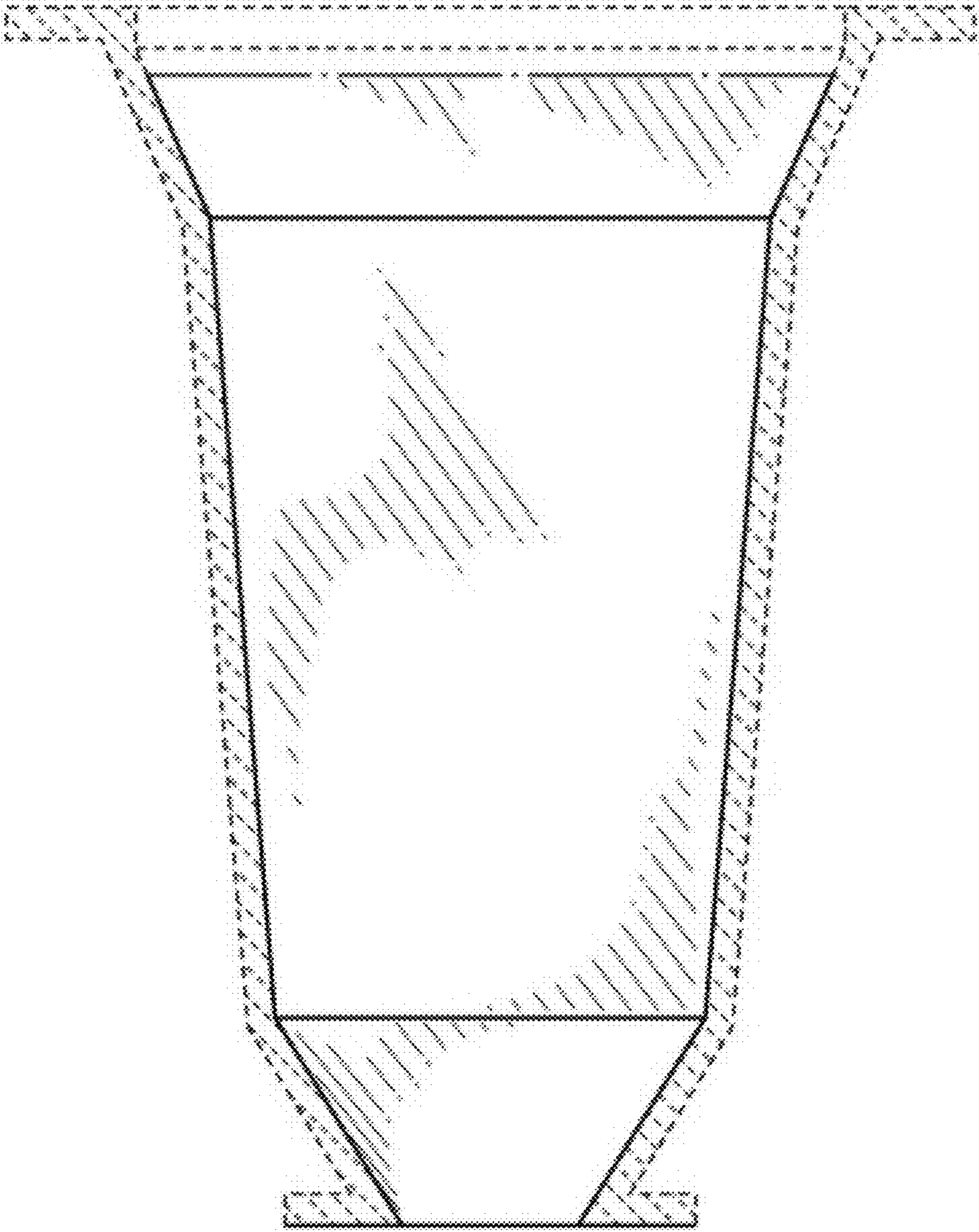
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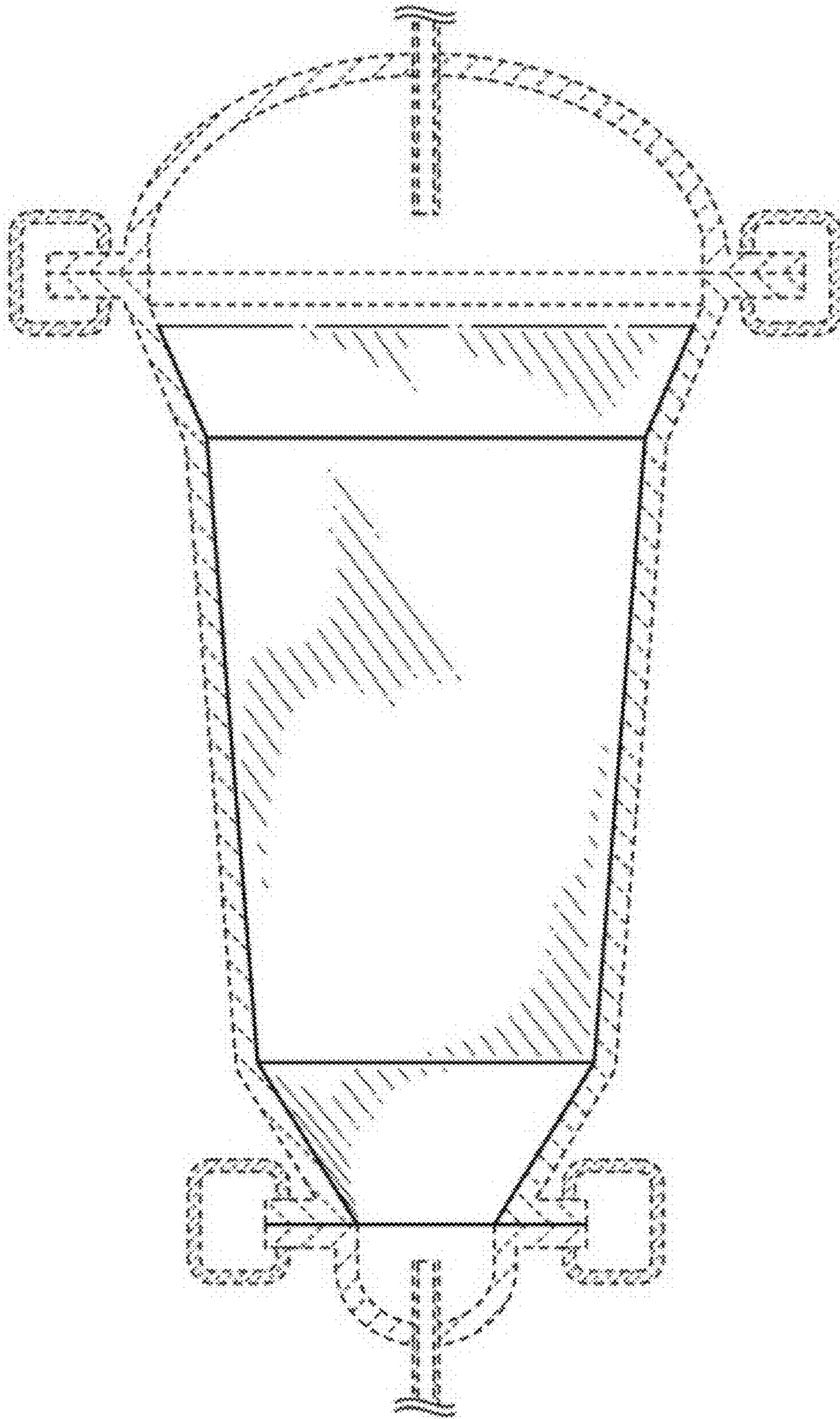
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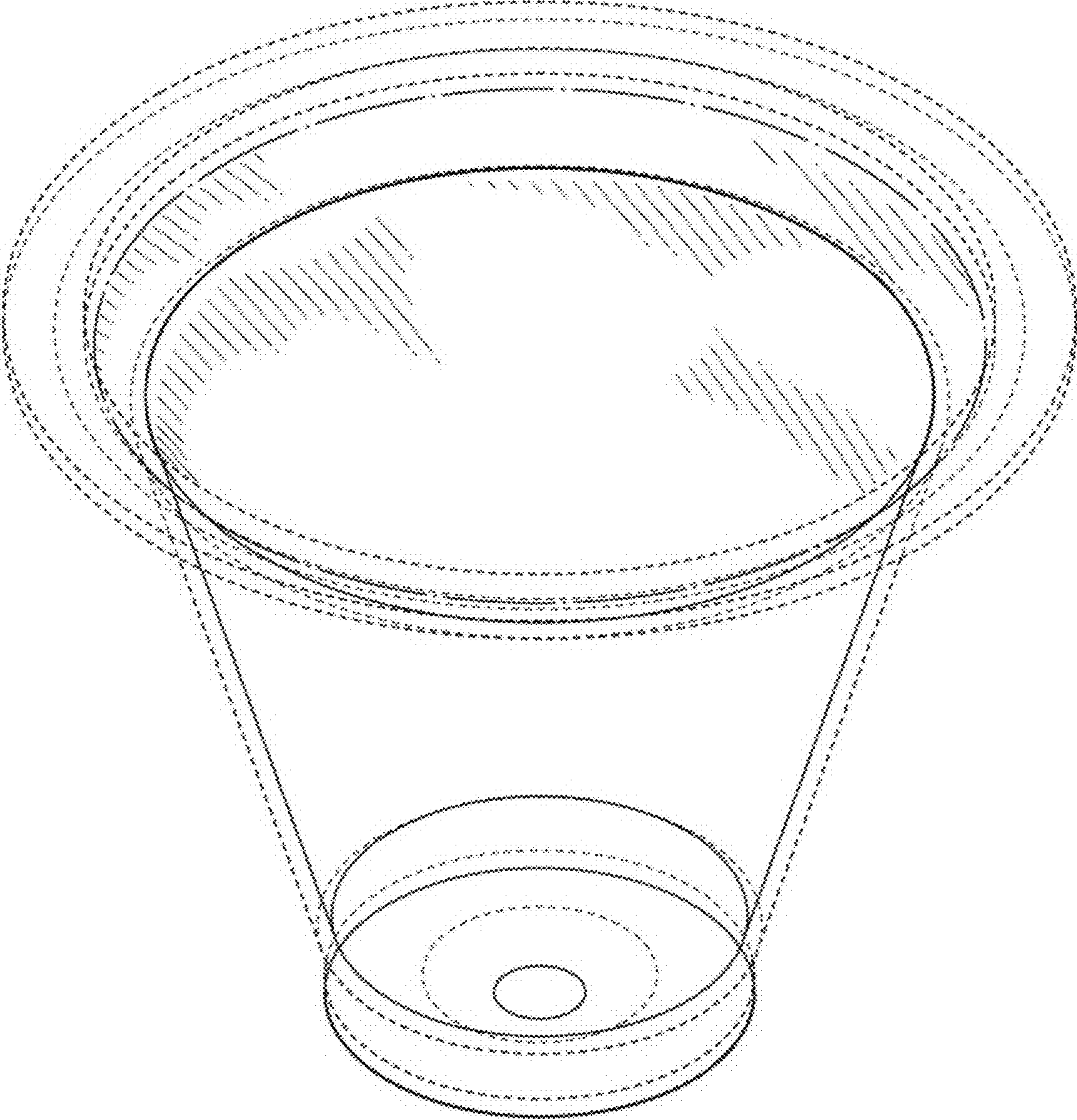
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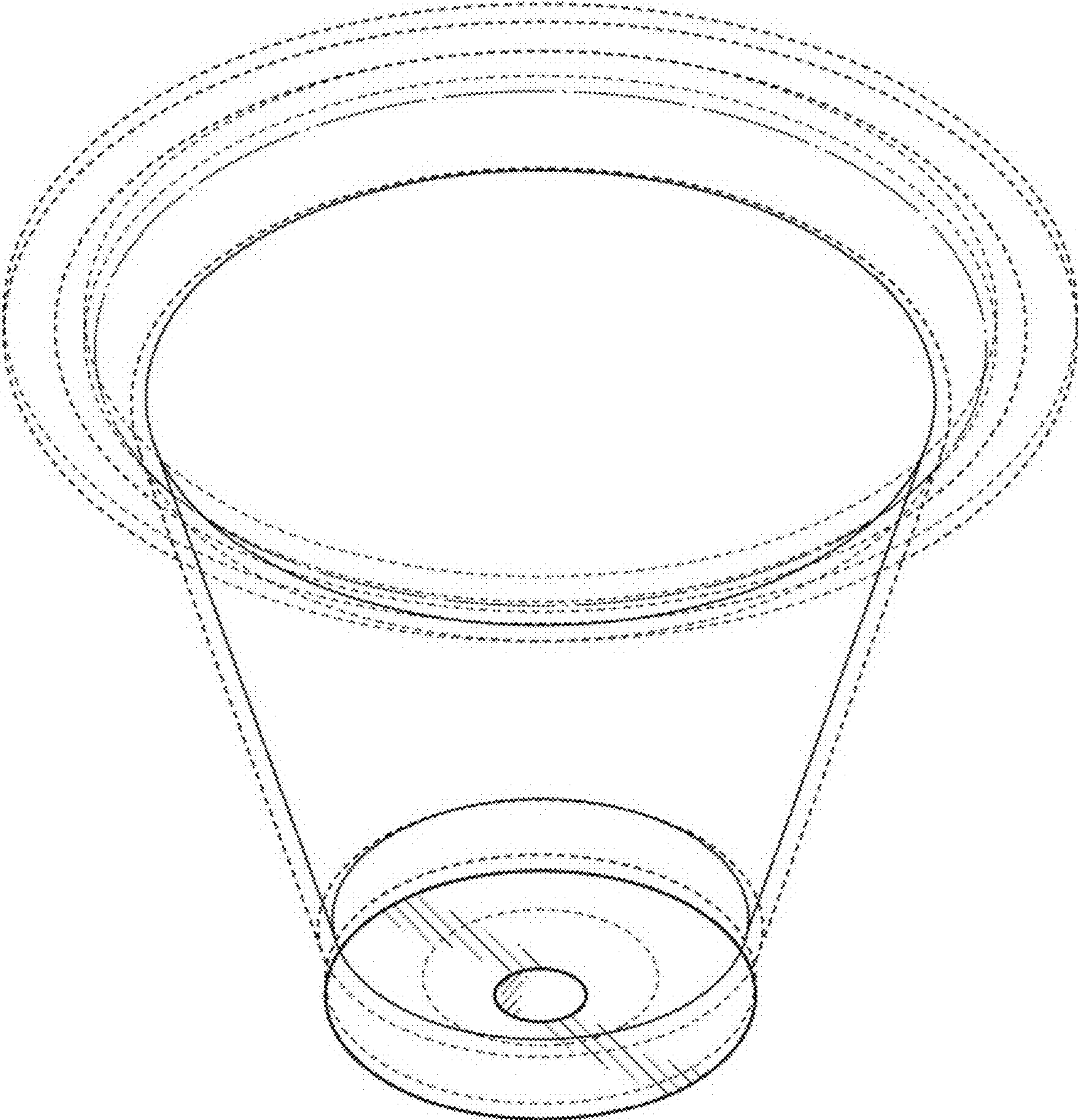
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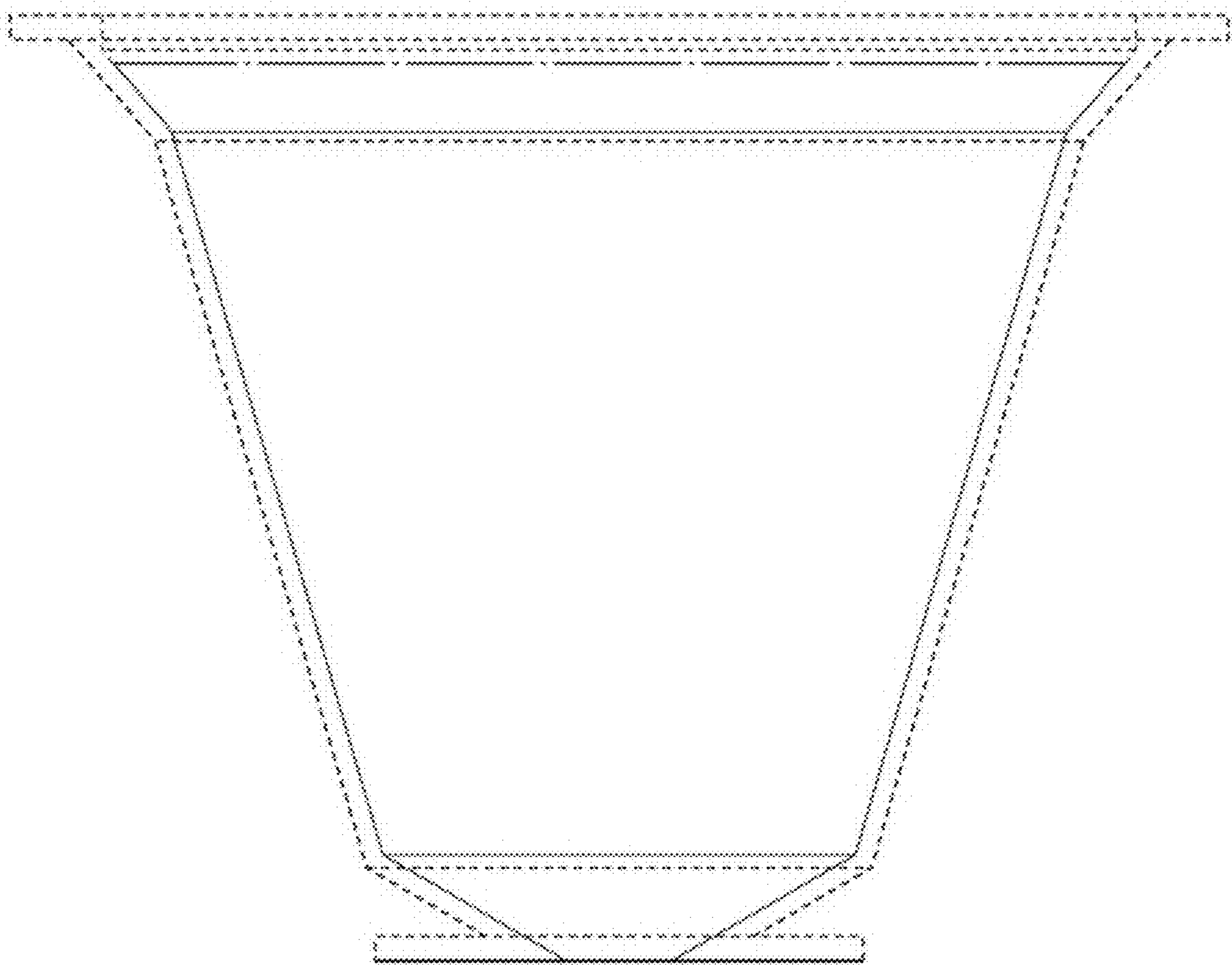
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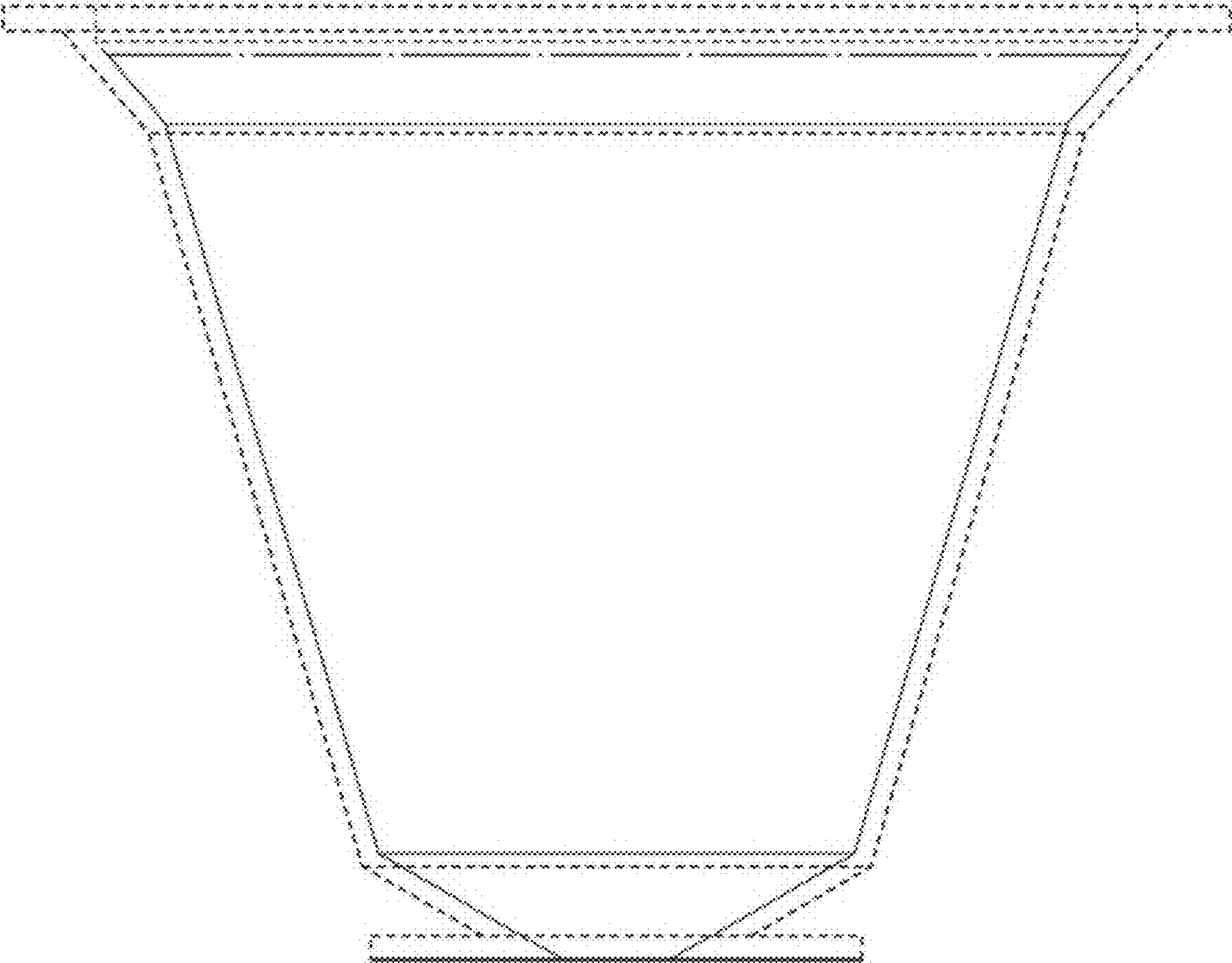
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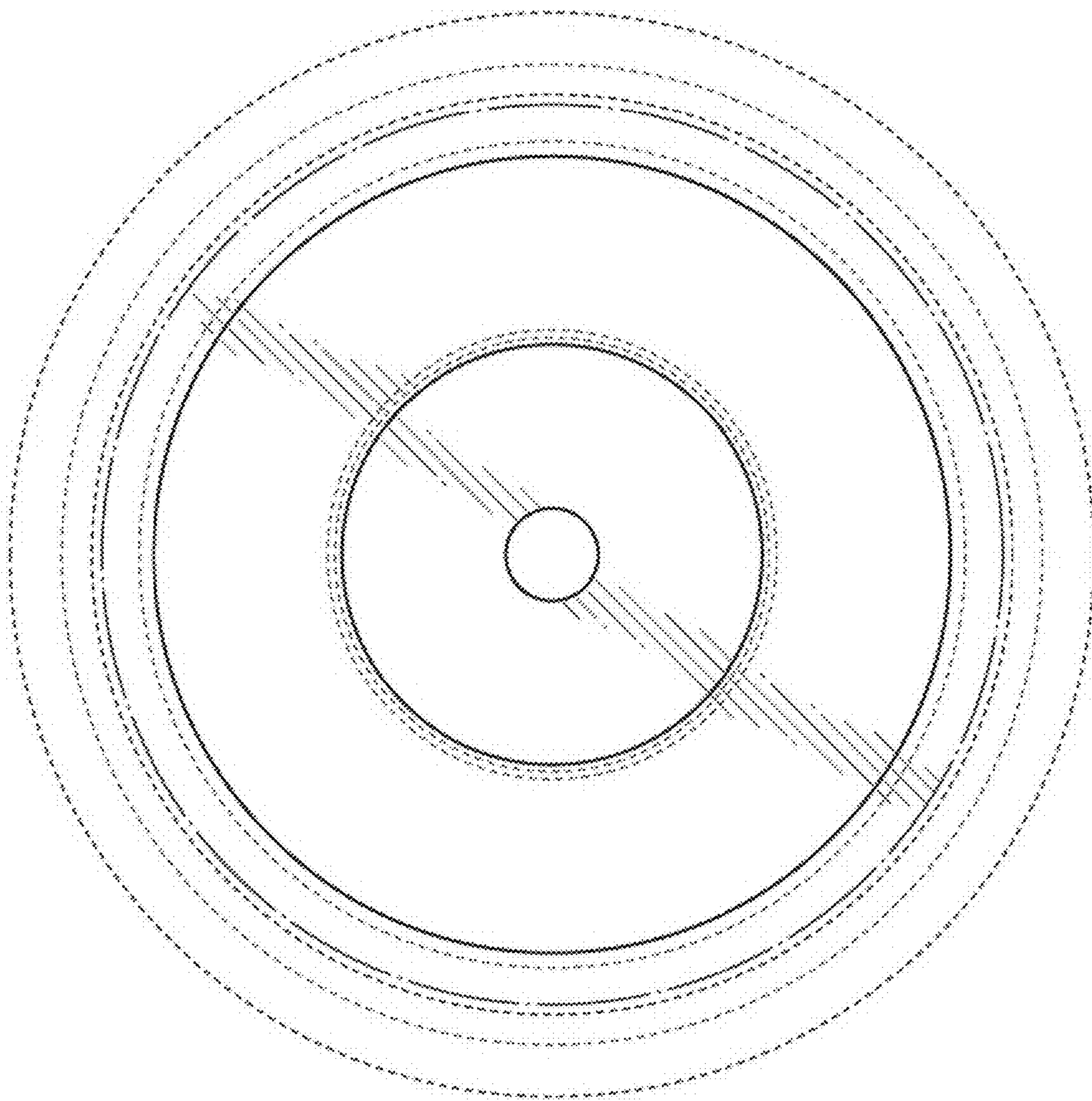


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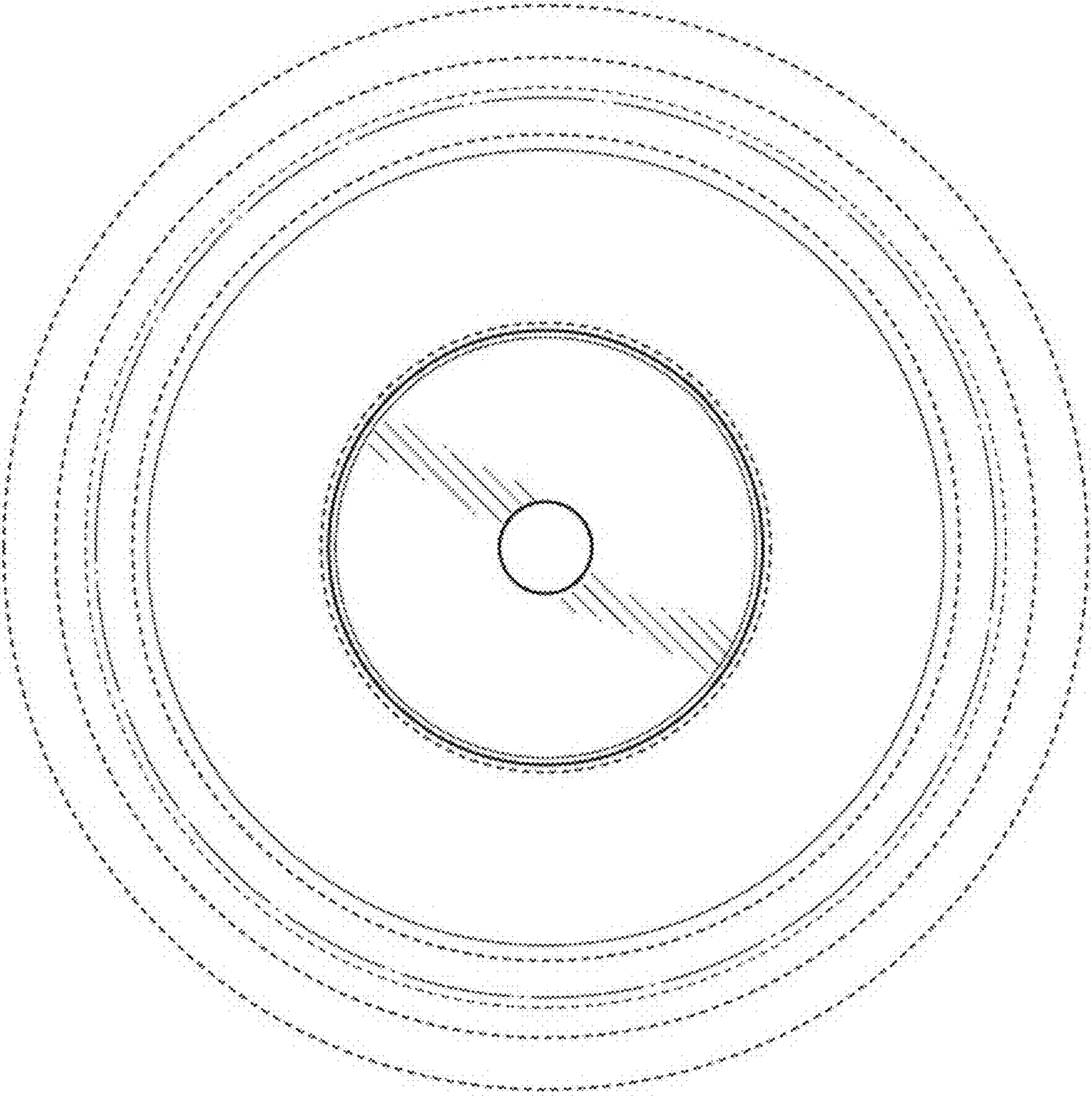




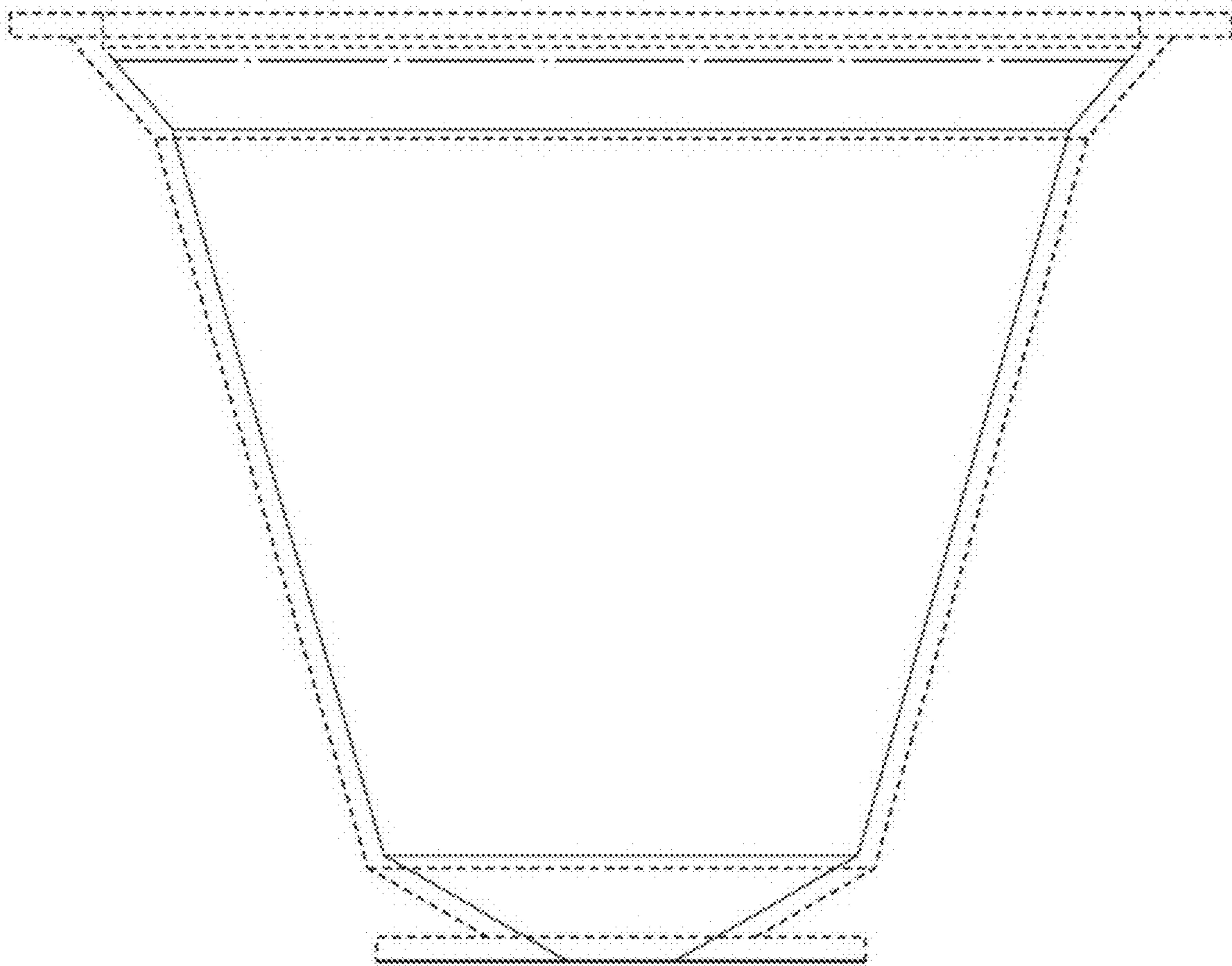
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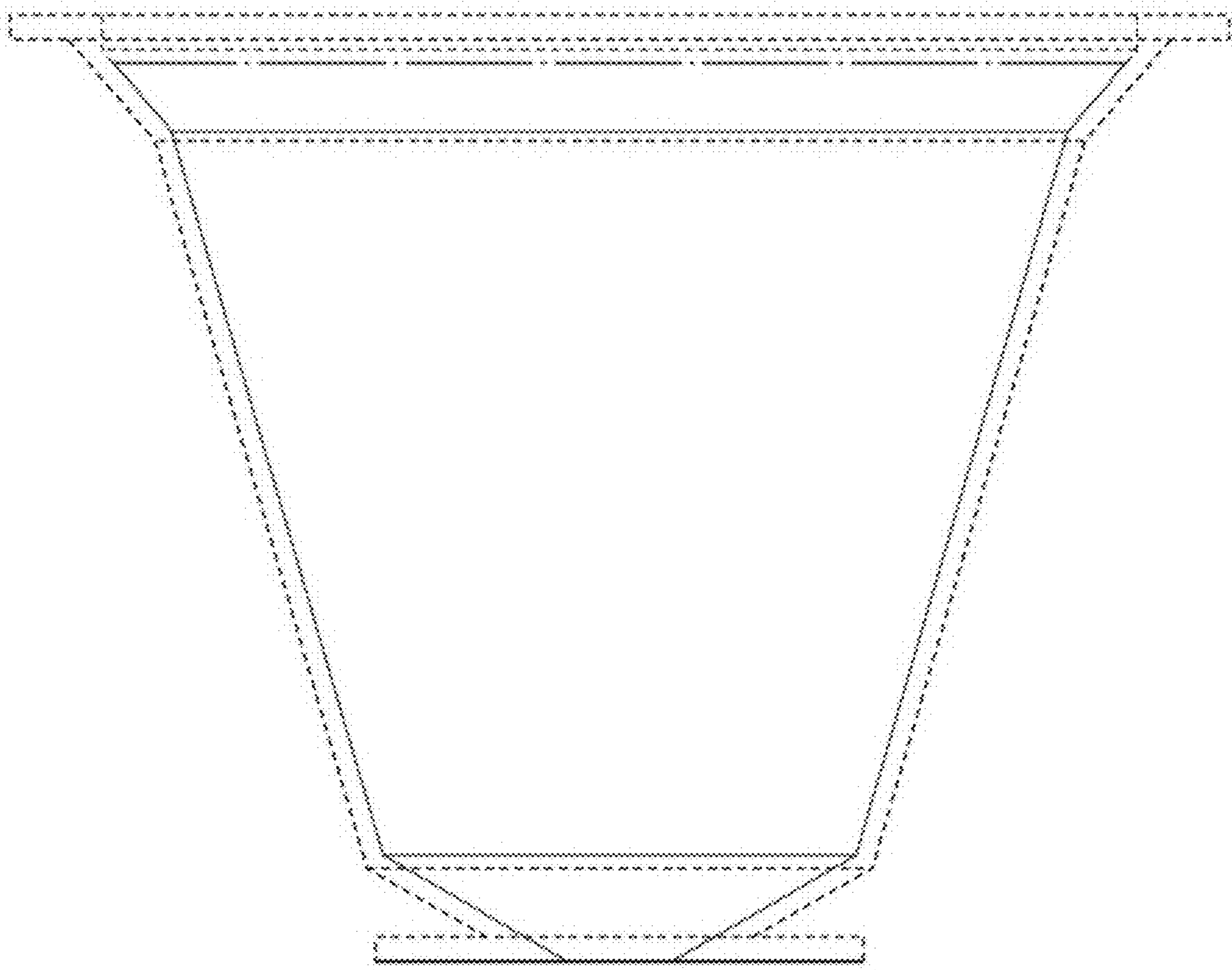
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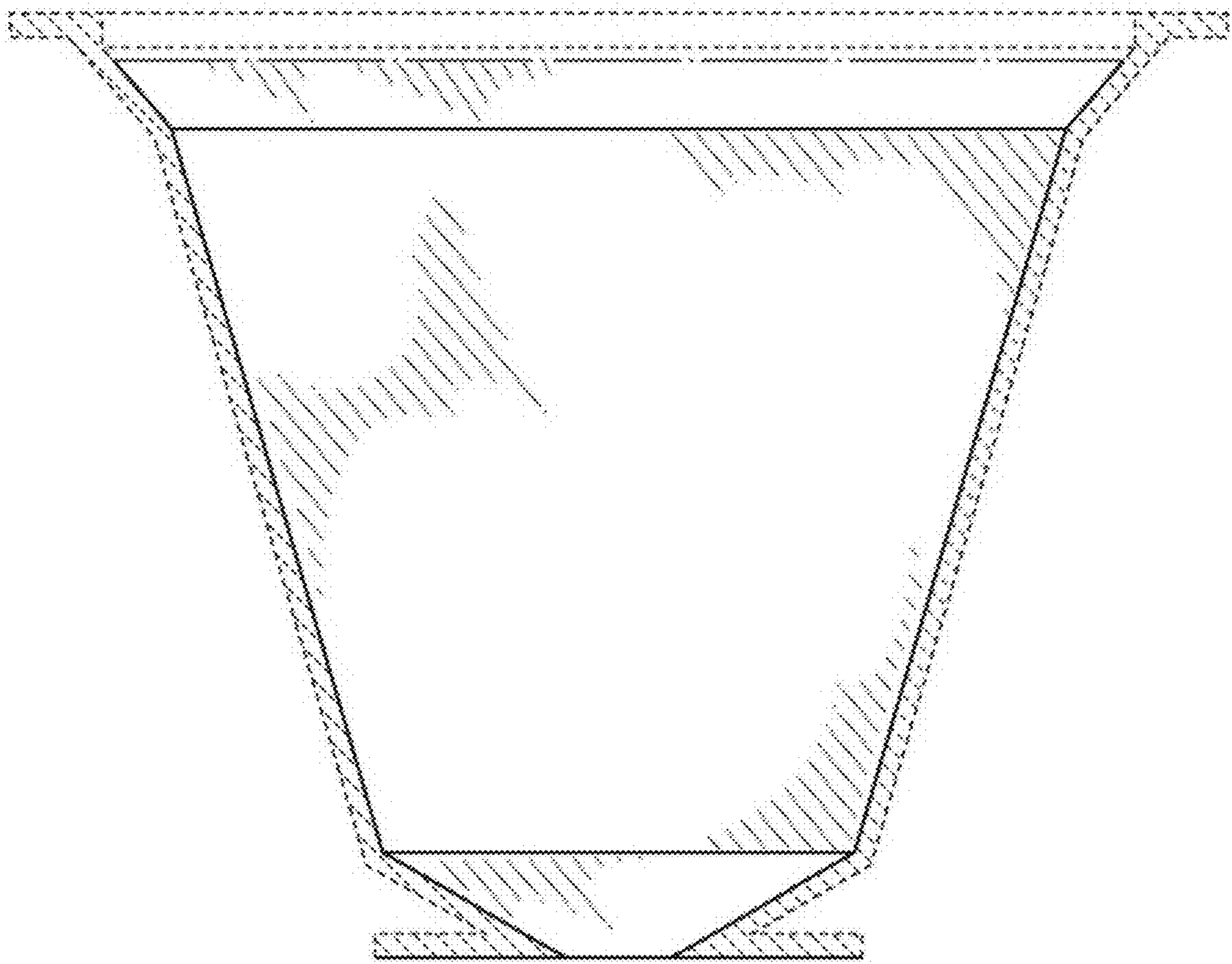
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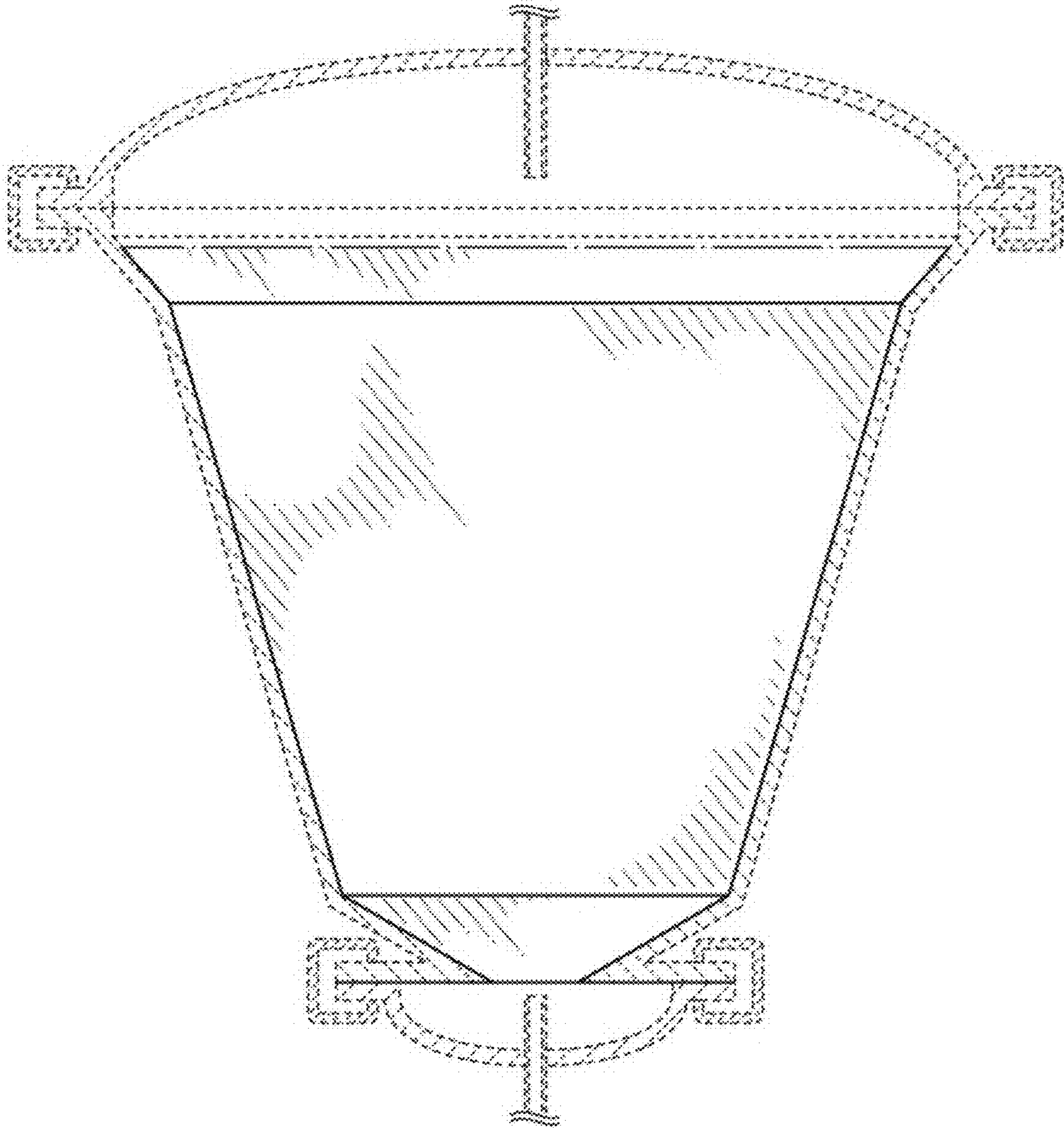
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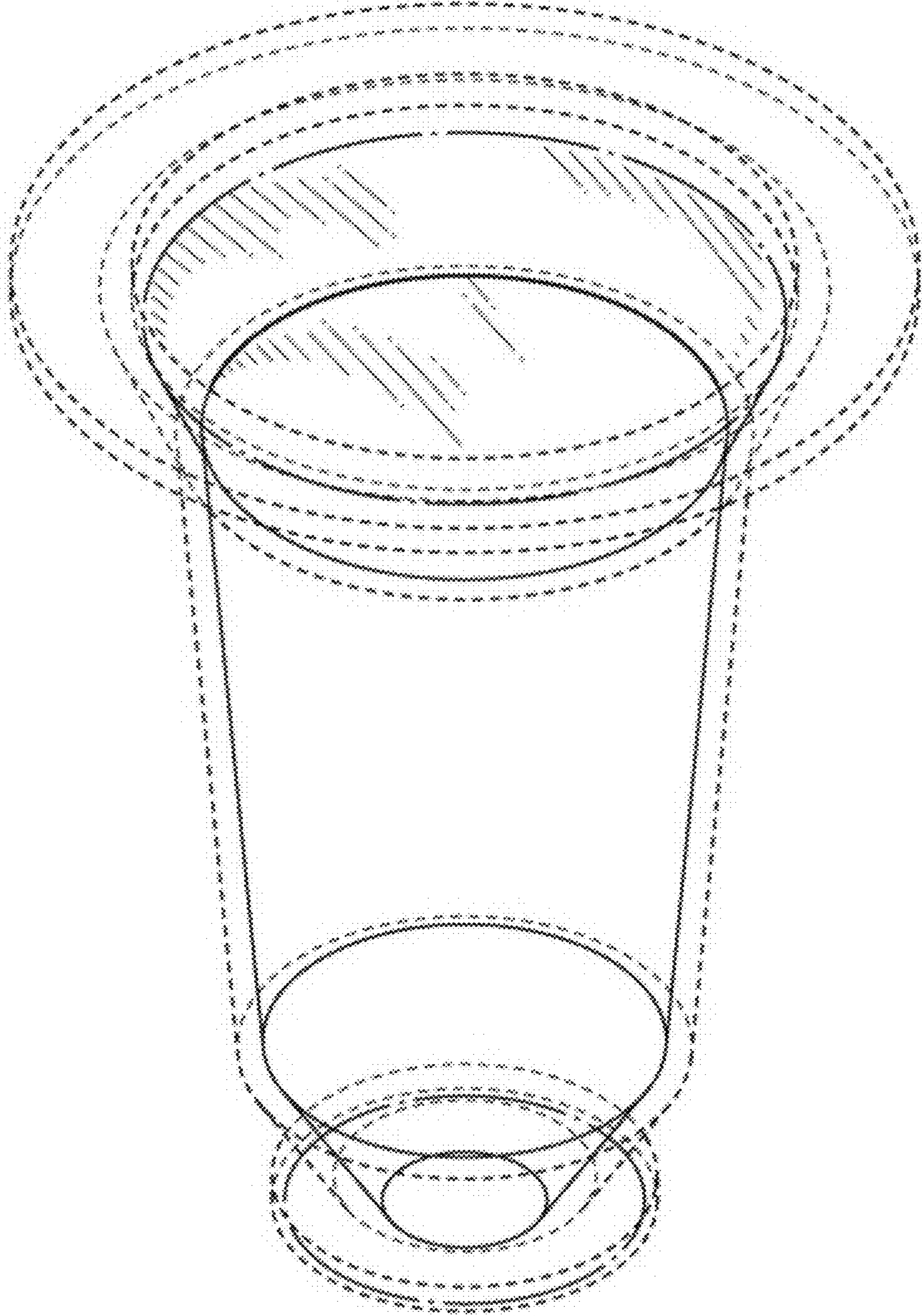
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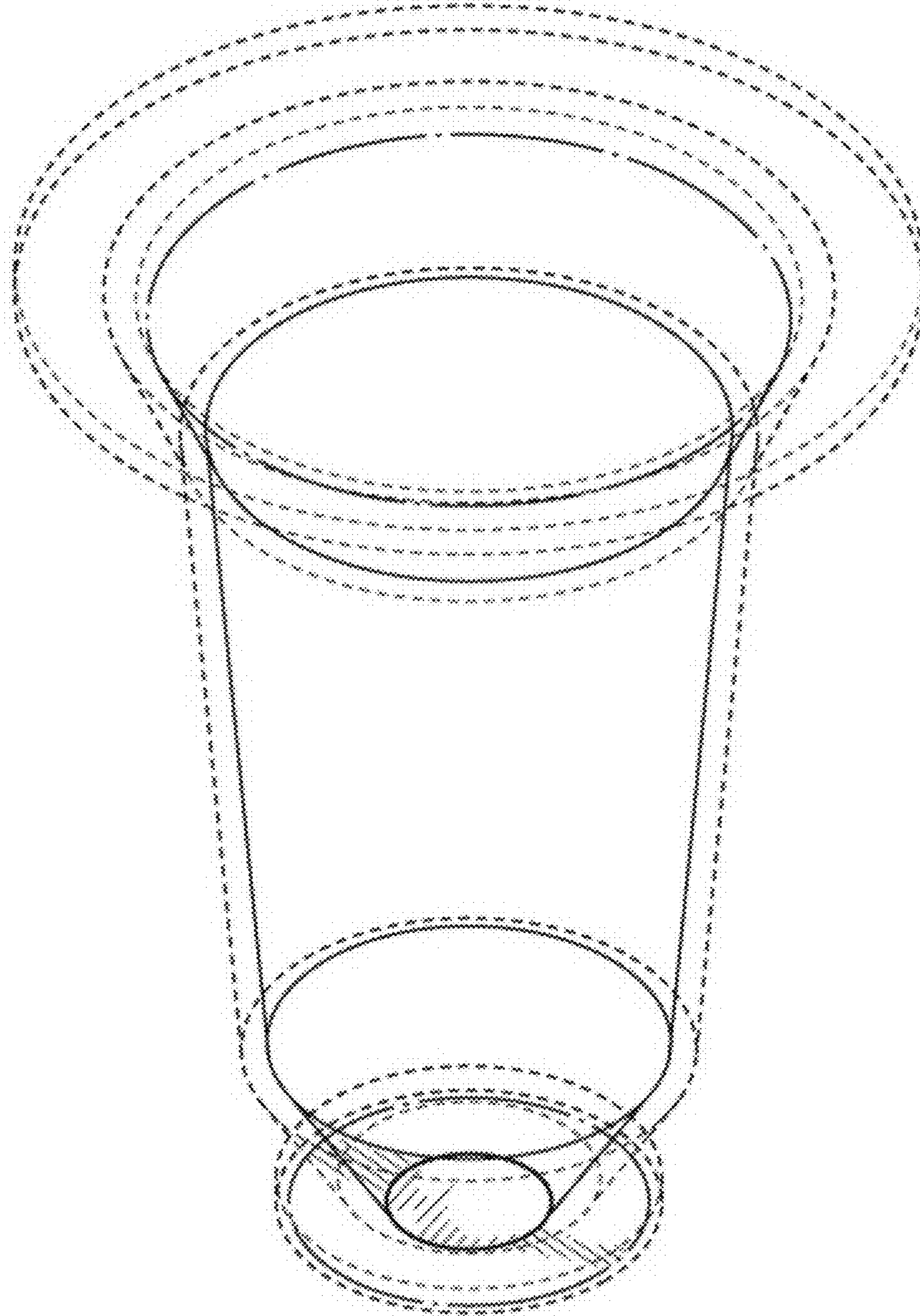
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3.1

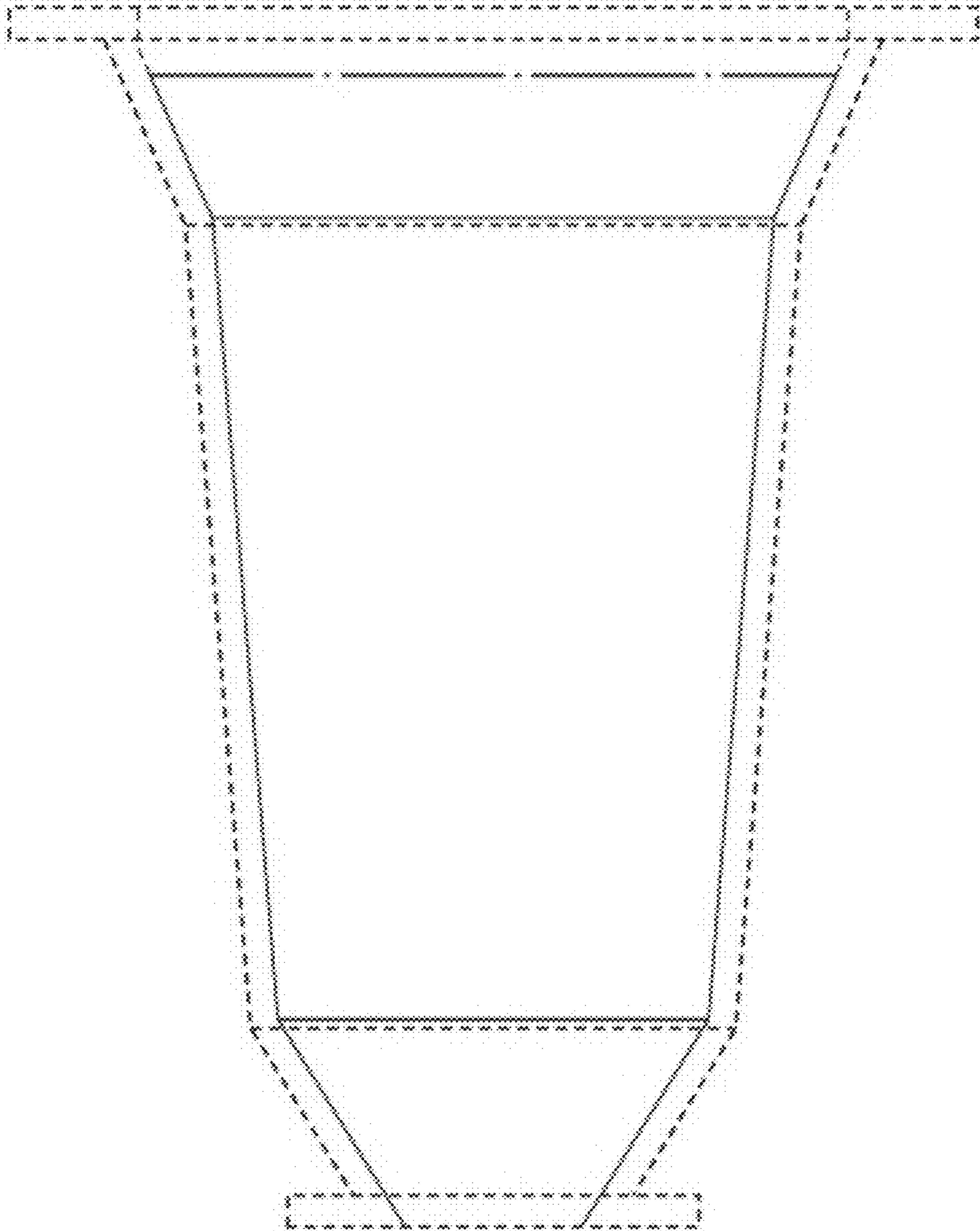


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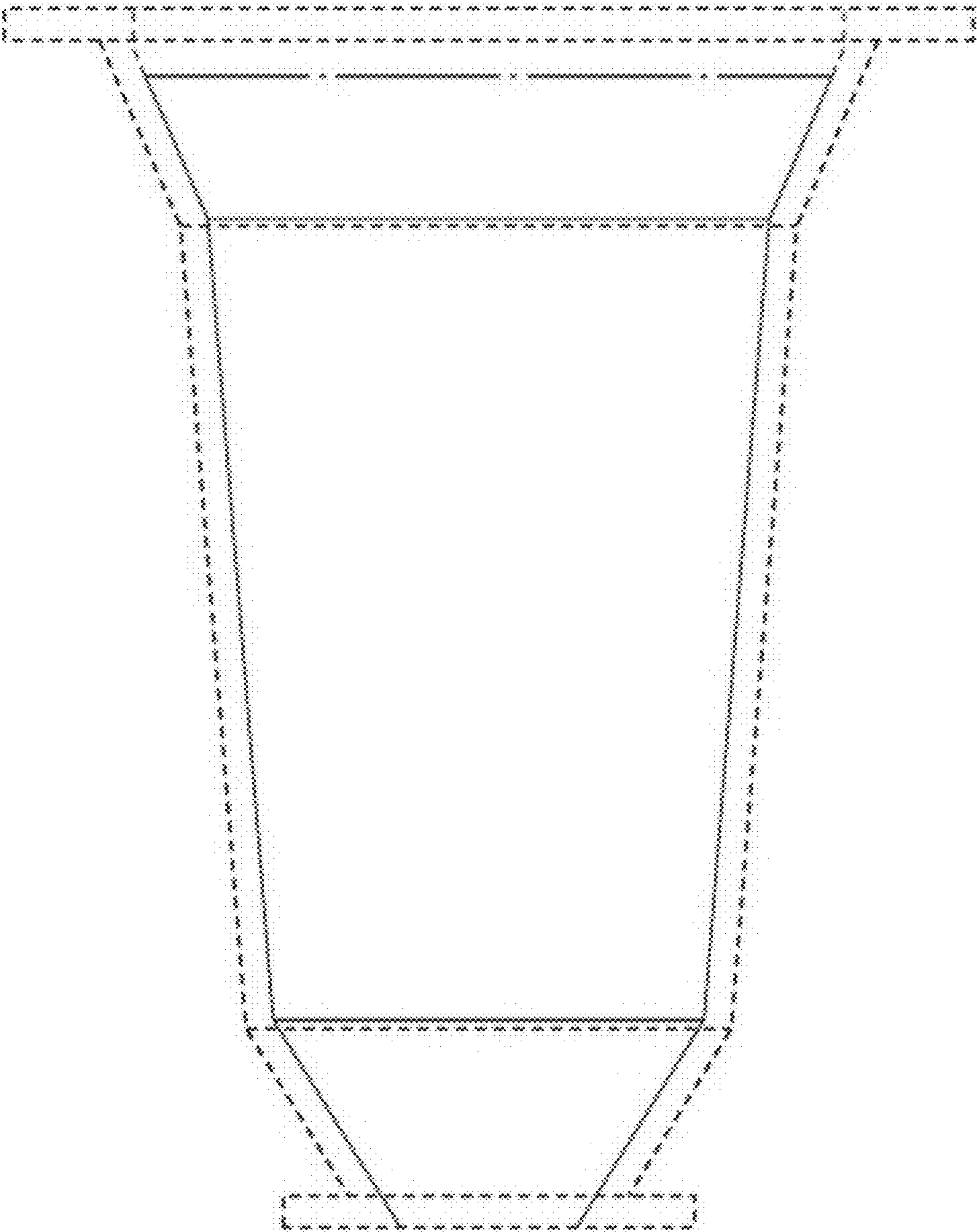




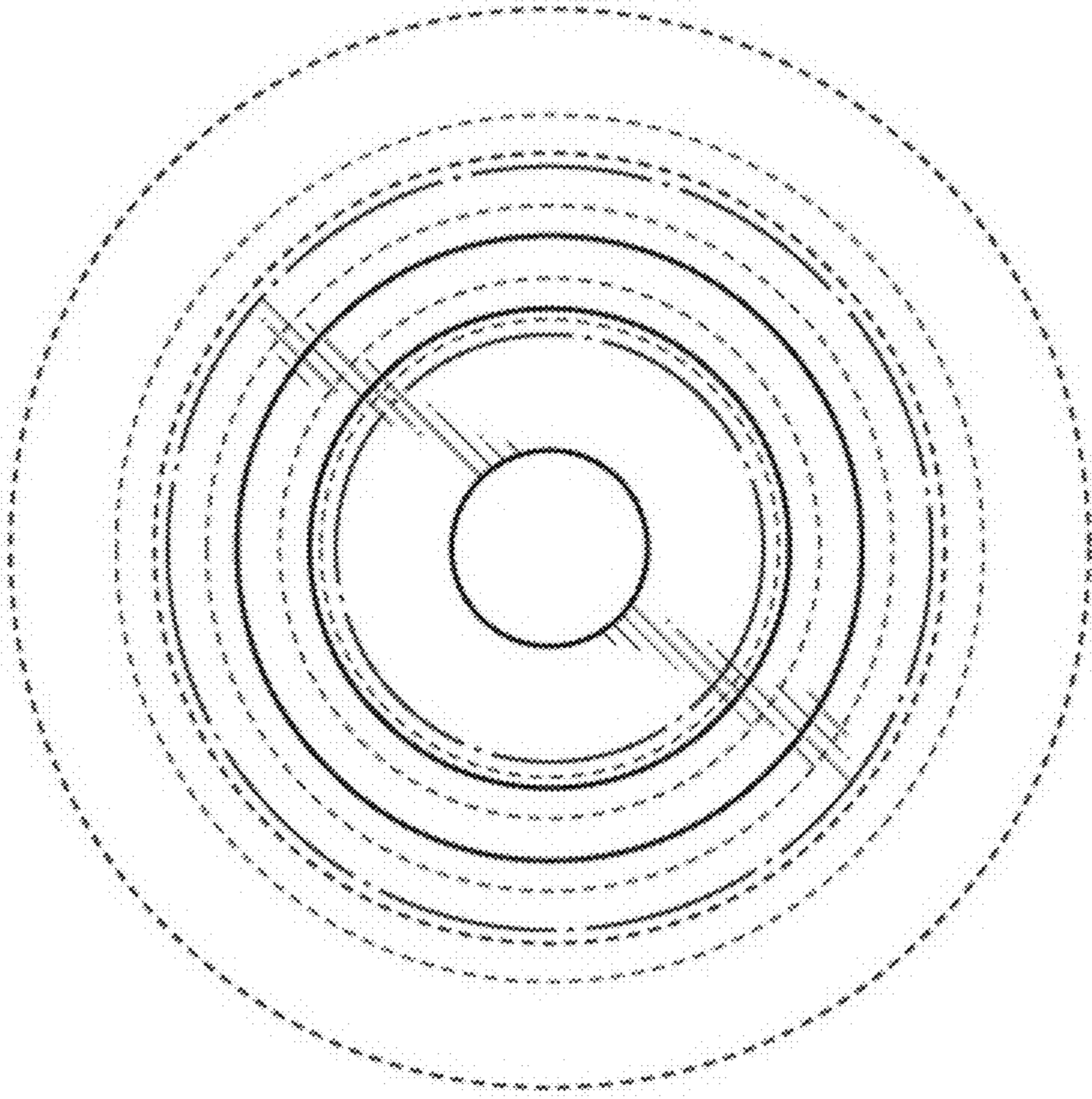
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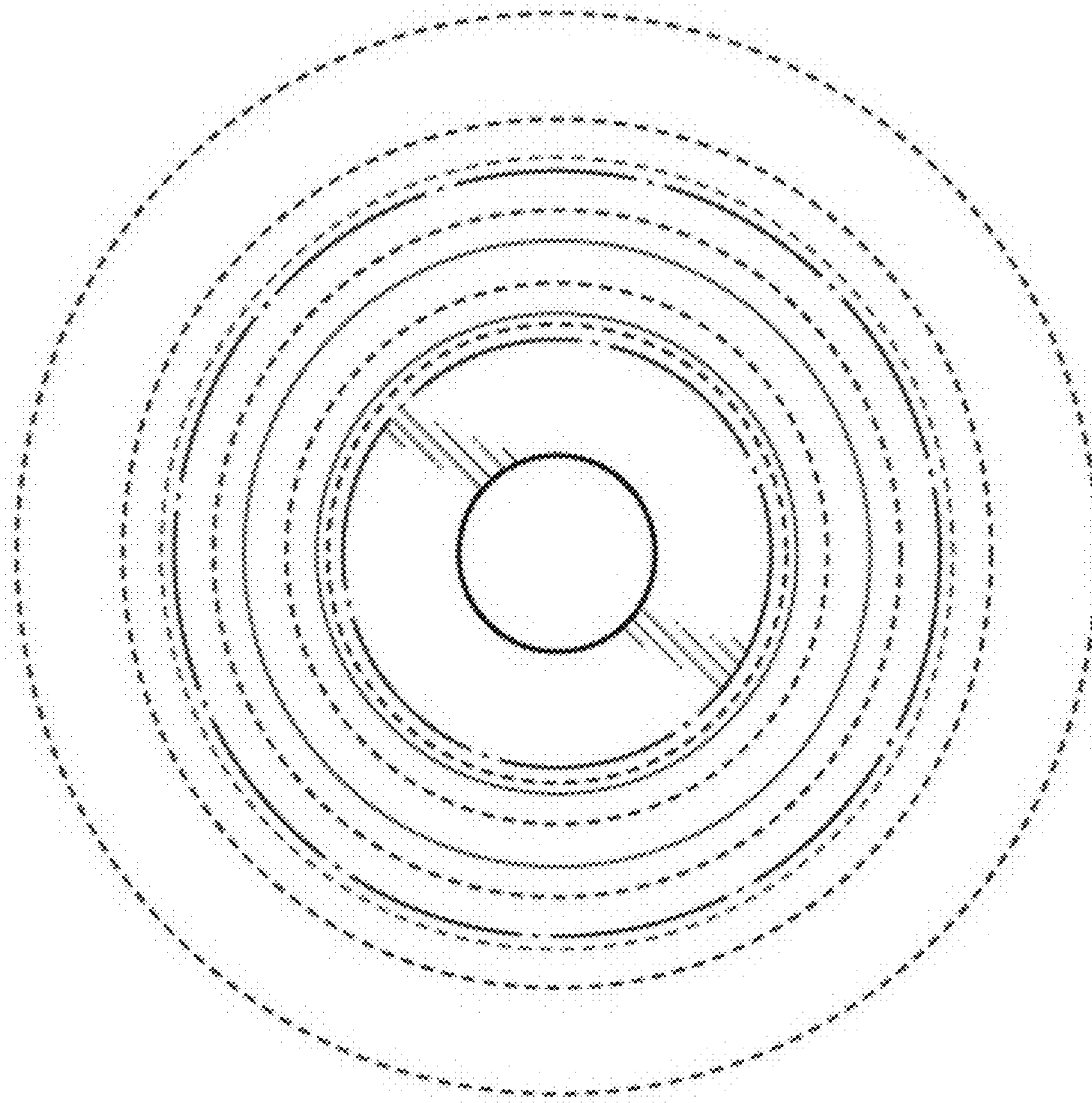
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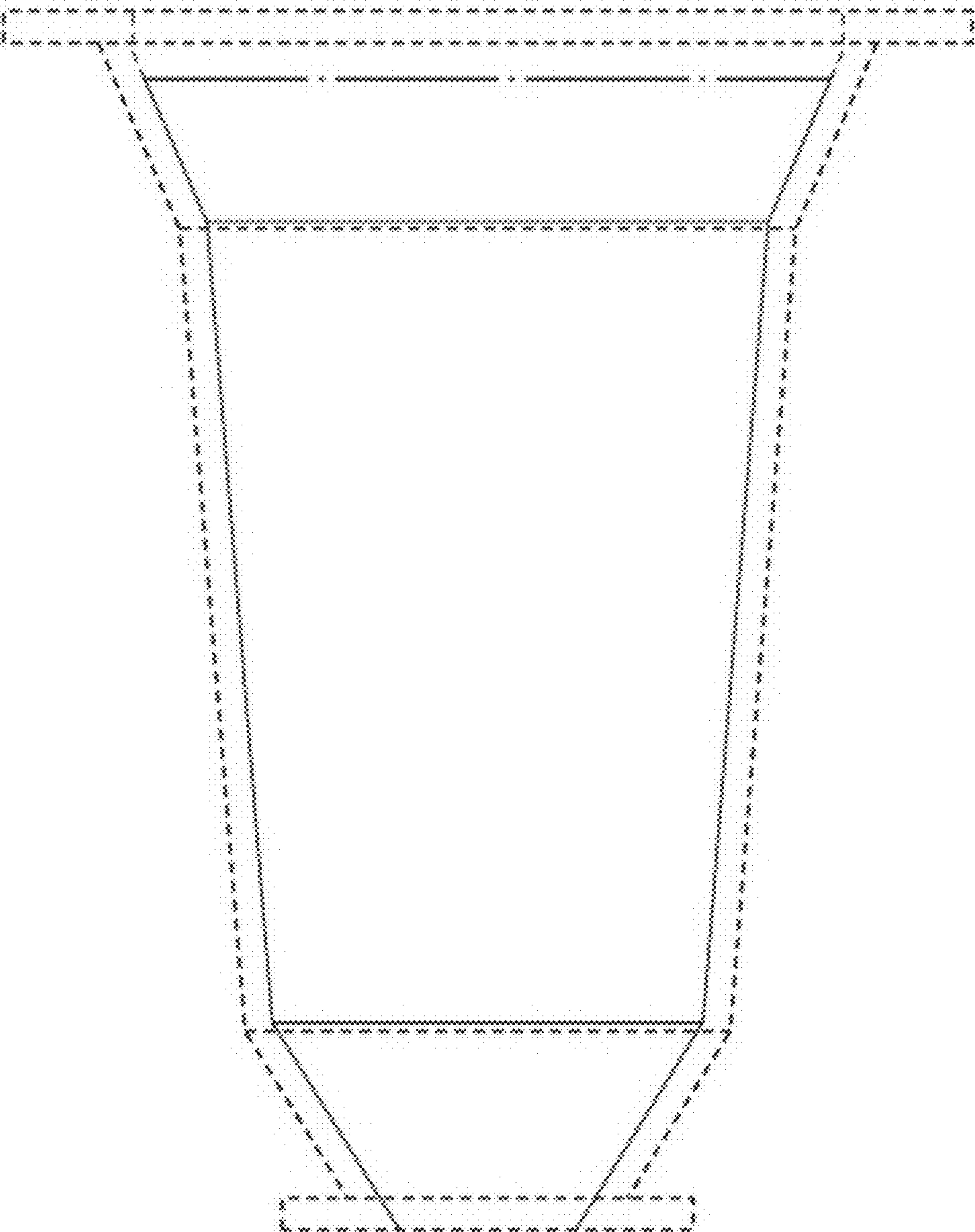
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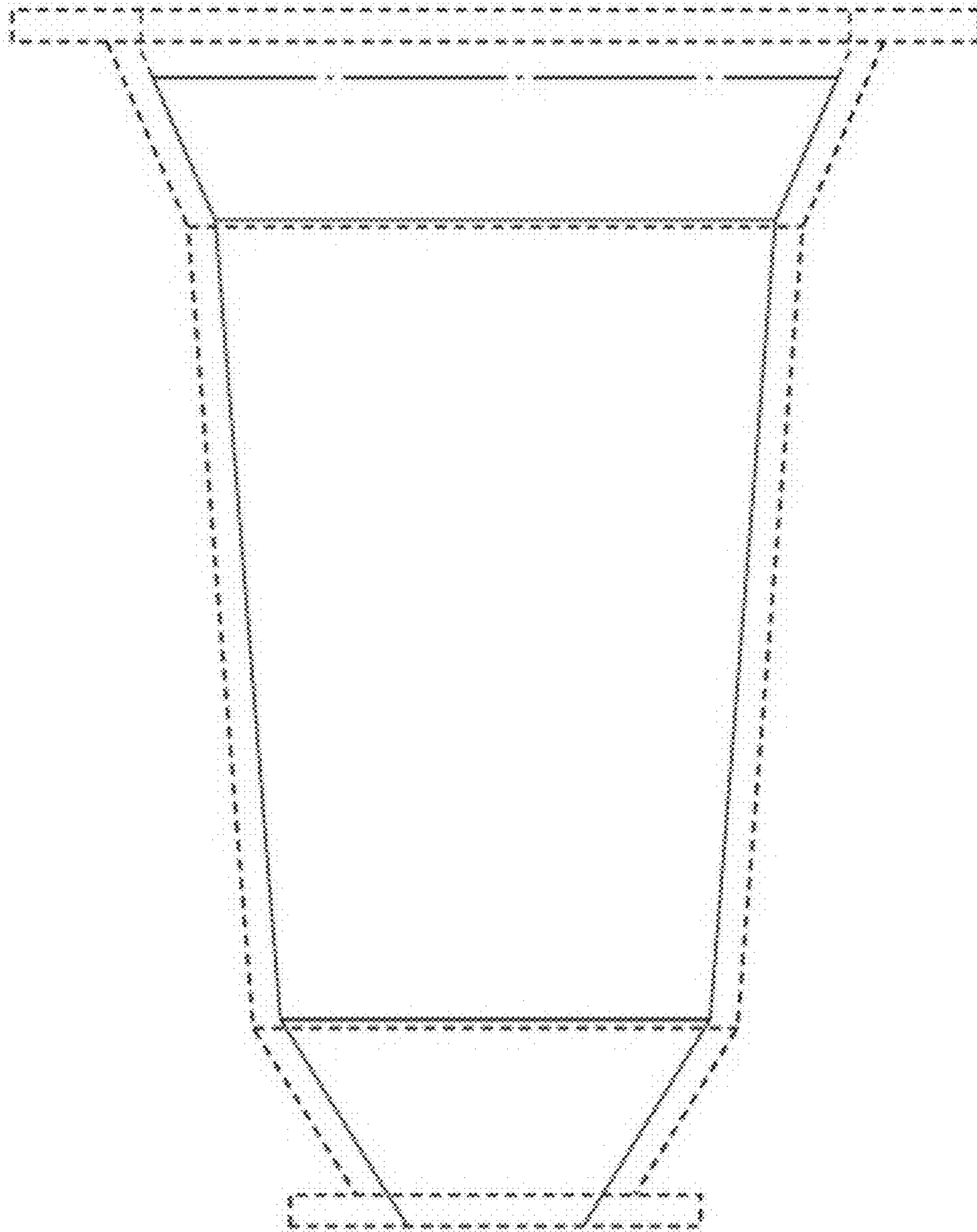
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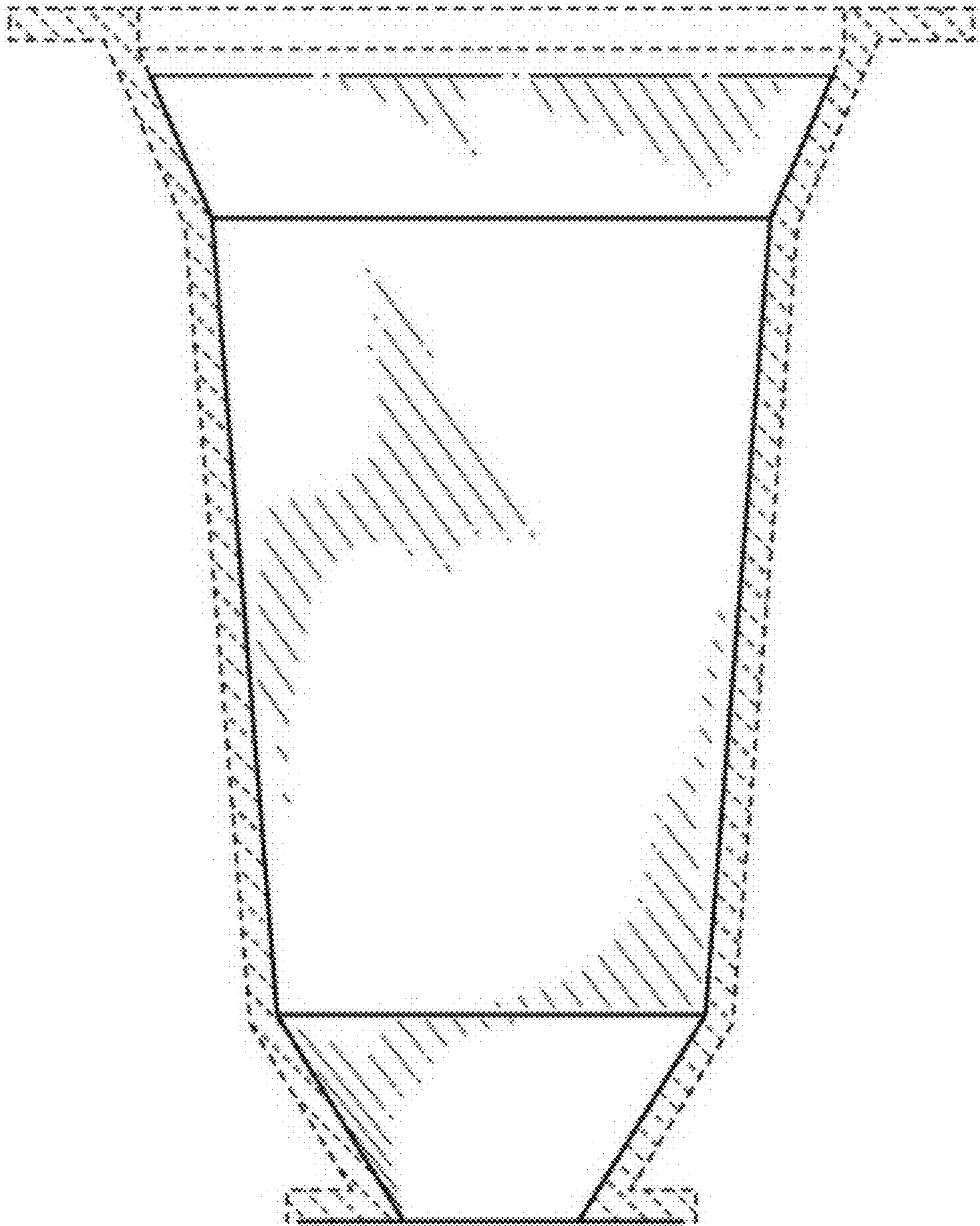
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3.8



3.9



3.10

