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(12) **United States Design Patent** (10) **Patent No.:** **US D811,451 S**
Ishino et al. (45) **Date of Patent:** **** Feb. 27, 2018**

(54) **VACUUM CHUCK**
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(57) **CLAIM**

The ornamental design for a vacuum chuck, as shown and described.

(**) Term: **15 Years**
(21) Appl. No.: **35/501,085**
(22) Filed: **Dec. 14, 2015**

DESCRIPTION

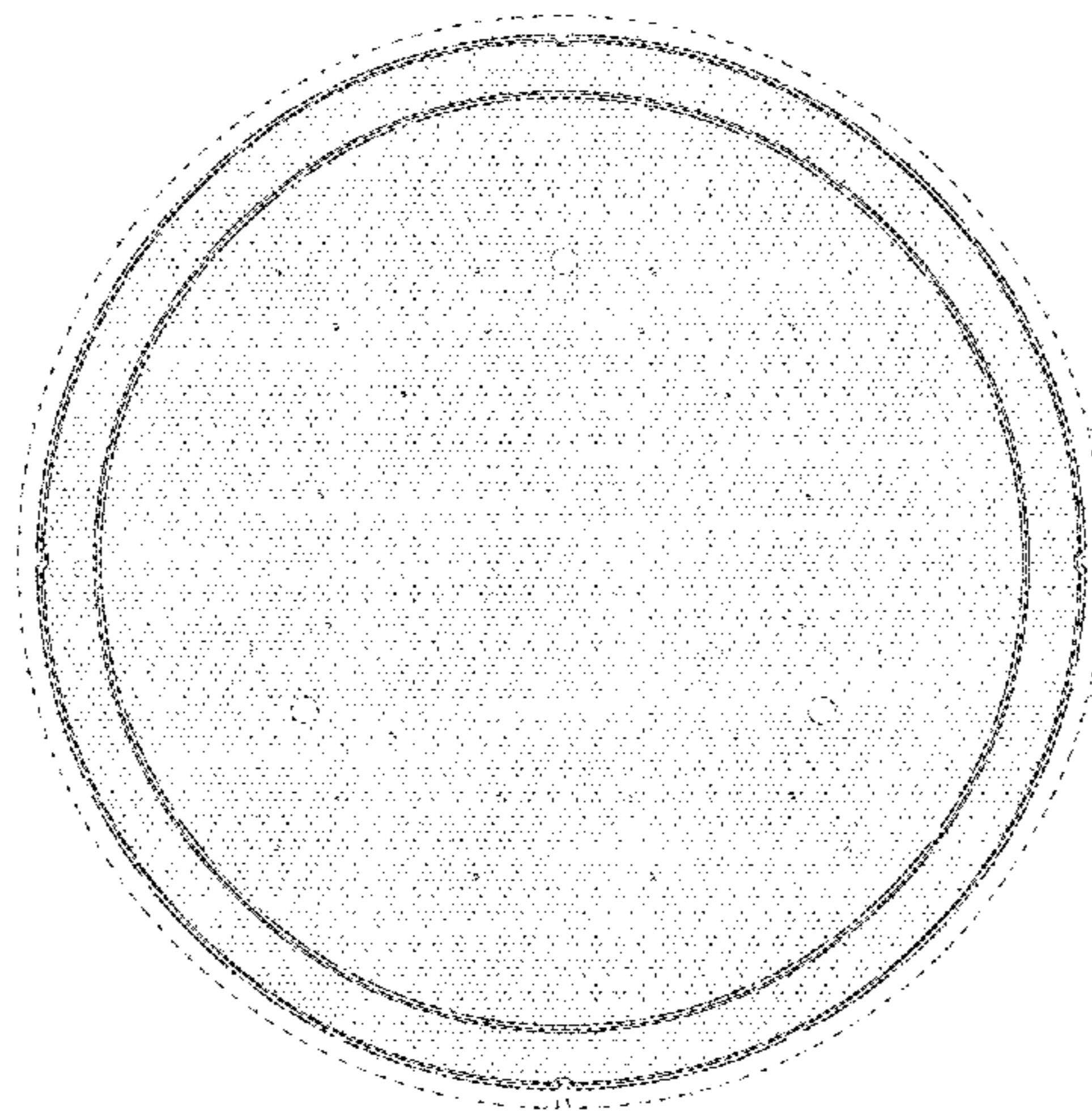
(80) **Hague Agreement Data**
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Int. Reg. Date: **Dec. 14, 2015**
Int. Reg. Pub. Date: **Jun. 17, 2016**
(51) **LOC (11) Cl.** **08-08**
(52) **U.S. Cl.**
USPC **D15/130**
CPC **B25B 11/00** (2013.01)
(58) **Field of Classification Search**
USPC D15/130-141; D21/489-491; D34/38;
279/3; 269/21; 294/64.1-65, 902-907
CPC B25B 11/00; H01L 21/683; H01L 21/67
See application file for complete search history.

1. Vacuum chuck
1.1 : Front View
The broken line in the figure defines the boundaries of the claimed design and form no part thereof. Namely, outside of the external dot-dash line and inside of the internal dot-dash line are not claimed. Dots inside of broken line and inside of outside solid line represent projected portions which are not colored and are unclaimed.
1.2 : Back View
Broken lines represent no part of claimed design and form no part thereof. Dots inside of broken lines represent projected portions which are not colored and are unclaimed.
1.3 : Right View
Broken lines represent no part of claimed design and form no part thereof.
1.4 : Top View
Broken lines represent no part of claimed design and form no part thereof.
1.5 : Bottom View
Broken lines represent no part of claimed design and form no part thereof.
1.6 : Partial enlarged View
The dot-dash line in the figure represent boundary lines of the claimed design that form no part of the claimed design. Broken lines represent no part of claimed design.
1.7 : Cross-sectional View
Broken lines represent no part of claimed design and form no part thereof.
A left view is omitted because it is symmetrical to the right view **1.3**; view **1.6** is a partial enlarged view to show a part of the claimed portion; view **1.7** is a cross-sectional view to show a part of the claimed portion.

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(Continued)

1 Claim, 7 Drawing Sheets



(56)

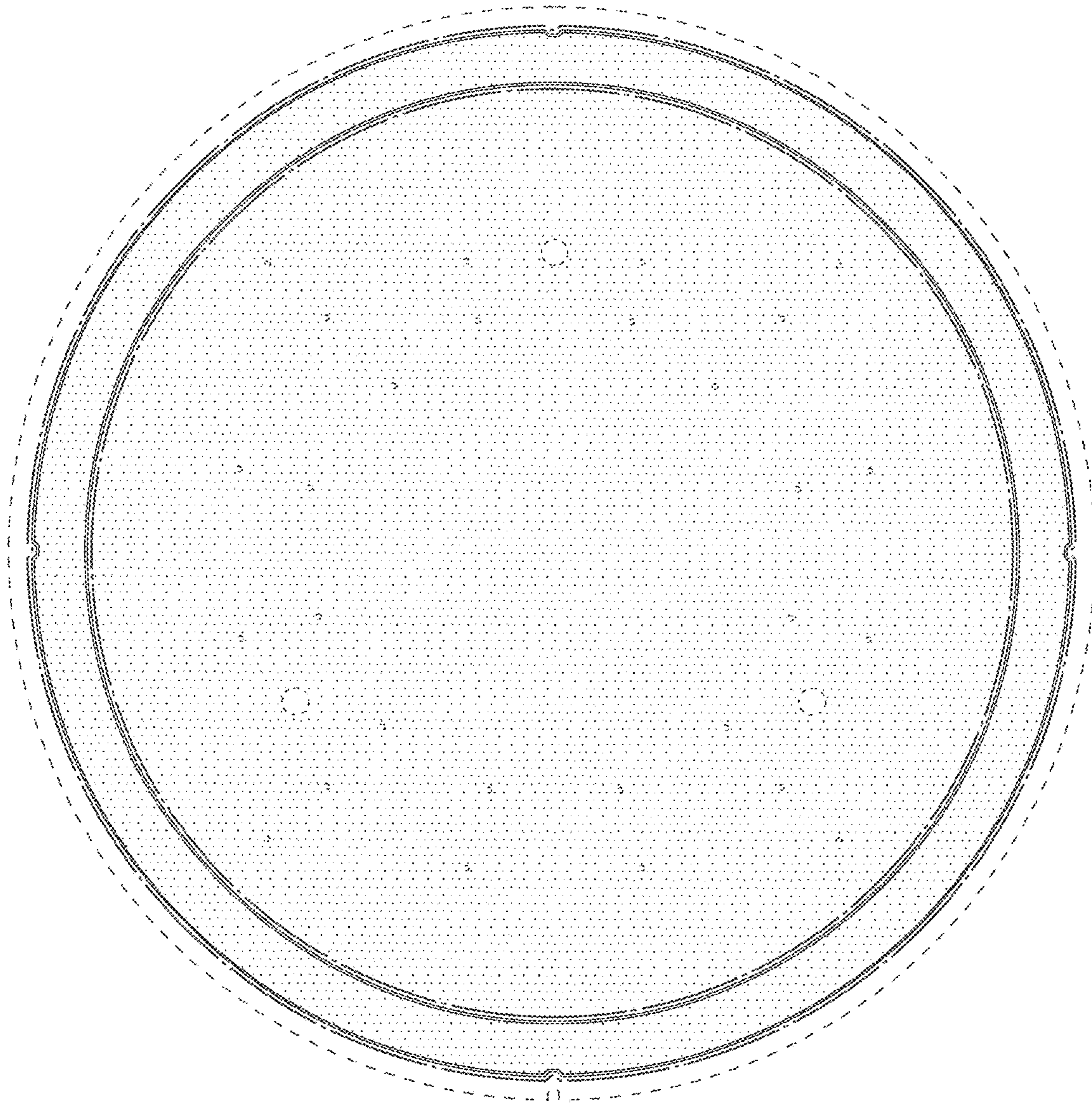
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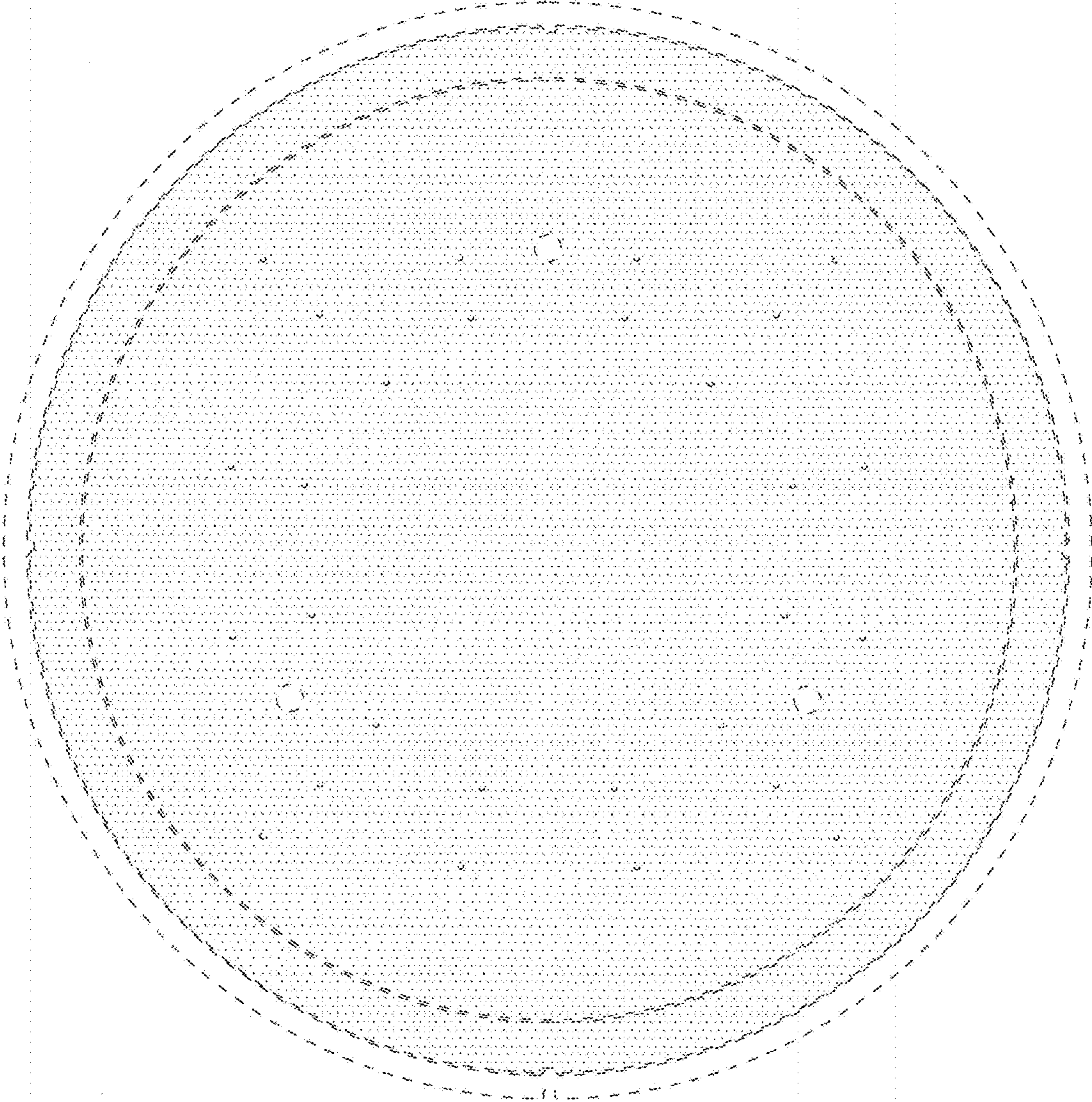
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1.1



1.2



1.3

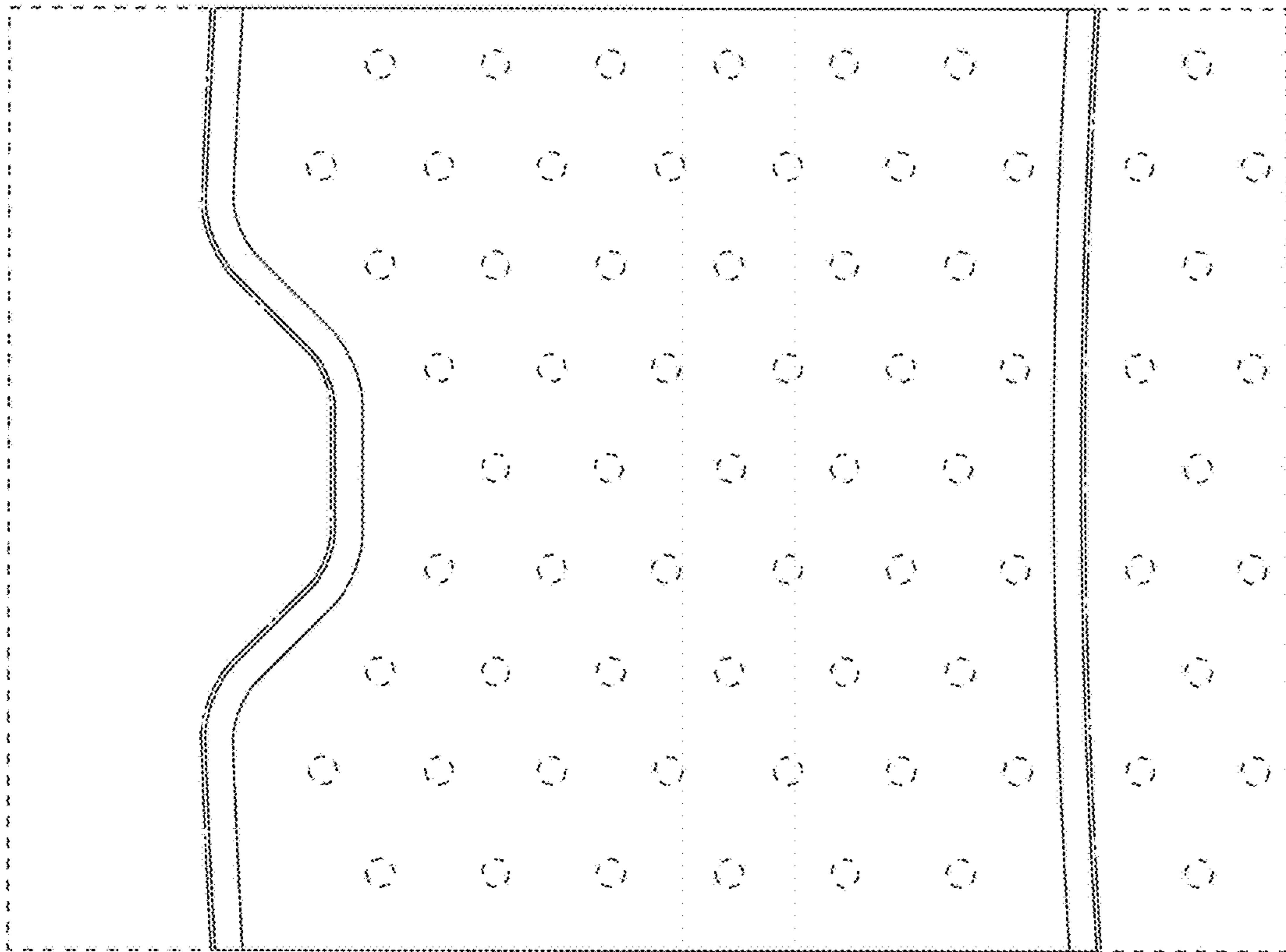
FIG. 13 is a perspective view of the device 100 in a closed position, showing the front panel 102 and the back panel 104. The front panel 102 is connected to the back panel 104 by a hinge mechanism 106. The device 100 is shown in a closed position, with the front panel 102 and the back panel 104 facing each other. The hinge mechanism 106 is located at the top of the device 100. The front panel 102 has a top edge 108 and a bottom edge 110. The back panel 104 has a top edge 112 and a bottom edge 114. The device 100 is shown in a perspective view, with the front panel 102 and the back panel 104 facing each other. The hinge mechanism 106 is located at the top of the device 100. The front panel 102 has a top edge 108 and a bottom edge 110. The back panel 104 has a top edge 112 and a bottom edge 114.

1.4

1.5



1.6



1.7

