



US00D925532S

(12) **United States Design Patent** (10) **Patent No.:** **US D925,532 S**  
**Endo et al.** (45) **Date of Patent:** **\*\* Jul. 20, 2021**

(54) **TOUCH PANEL**

(71) Applicant: **SMK Corporation**, Tokyo (JP)

(72) Inventors: **Akinori Endo**, Kanagawa (JP);  
**Masataka Maehara**, Saitama (JP)

(73) Assignee: **SMK Corporation**, Tokyo (JP)

(\*\*) Term: **15 Years**

(21) Appl. No.: **29/687,300**

(22) Filed: **Apr. 12, 2019**

(30) **Foreign Application Priority Data**

Nov. 13, 2018 (JP) ..... 2018-024821

(51) **LOC (13) Cl.** ..... **14-02**

(52) **U.S. Cl.**

USPC ..... **D14/389**; D13/184

(58) **Field of Classification Search**

USPC ..... D14/388, 389, 390, 318, 439, 443, 399,  
D14/336, 341, 342, 346, 356, 130, 218,  
D14/454, 455, 299, 371, 374, 378, 496,  
D14/432, 434, 457, 458; D21/324, 329,  
D21/333; D13/162, 164, 168, 182;  
D19/59-61, 113; D24/186; D10/46, 61,  
D10/65, 70, 104.1, 106.9, 106.95, 108;  
D8/330, 331

CPC ..... G06F 3/041; G06F 3/0412; G06F 3/0414;  
G06F 3/0416; G06F 3/044; G06F 3/045;  
G06F 3/0488; G06F 3/03545; G06F  
3/03547; G02F 1/1343; G02F 1/1344;  
H01L 29/458

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D340,915 S \* 11/1993 Kawase ..... D14/125  
D354,922 S \* 1/1995 Gartner ..... D10/106.95  
D363,060 S \* 10/1995 Hunger ..... D13/177

D391,834 S \* 3/1998 Phillips ..... D8/343  
D393,458 S \* 4/1998 Merlin ..... D14/437  
D416,881 S \* 11/1999 Ross ..... D14/456

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP 6601579 B1 \* 11/2019 ..... G06F 3/041  
JP 2020119155 A \* 8/2020

**OTHER PUBLICATIONS**

Touch panel. (Design—© Questel) orbit.com. [online PDF of Foreign references selected by Examiner] 8 pgs. Print Dates range Jul. 22, 2019-Nov. 12, 2019 [Retrieved Feb. 17, 2021] <https://www.orbit.com/export/QPTUJ214/pdf2/8688e5dc-4408-4d0c-8b7a-606b700c0f61-001324.pdf>.\*

*Primary Examiner* — Marie D. Fast Horse

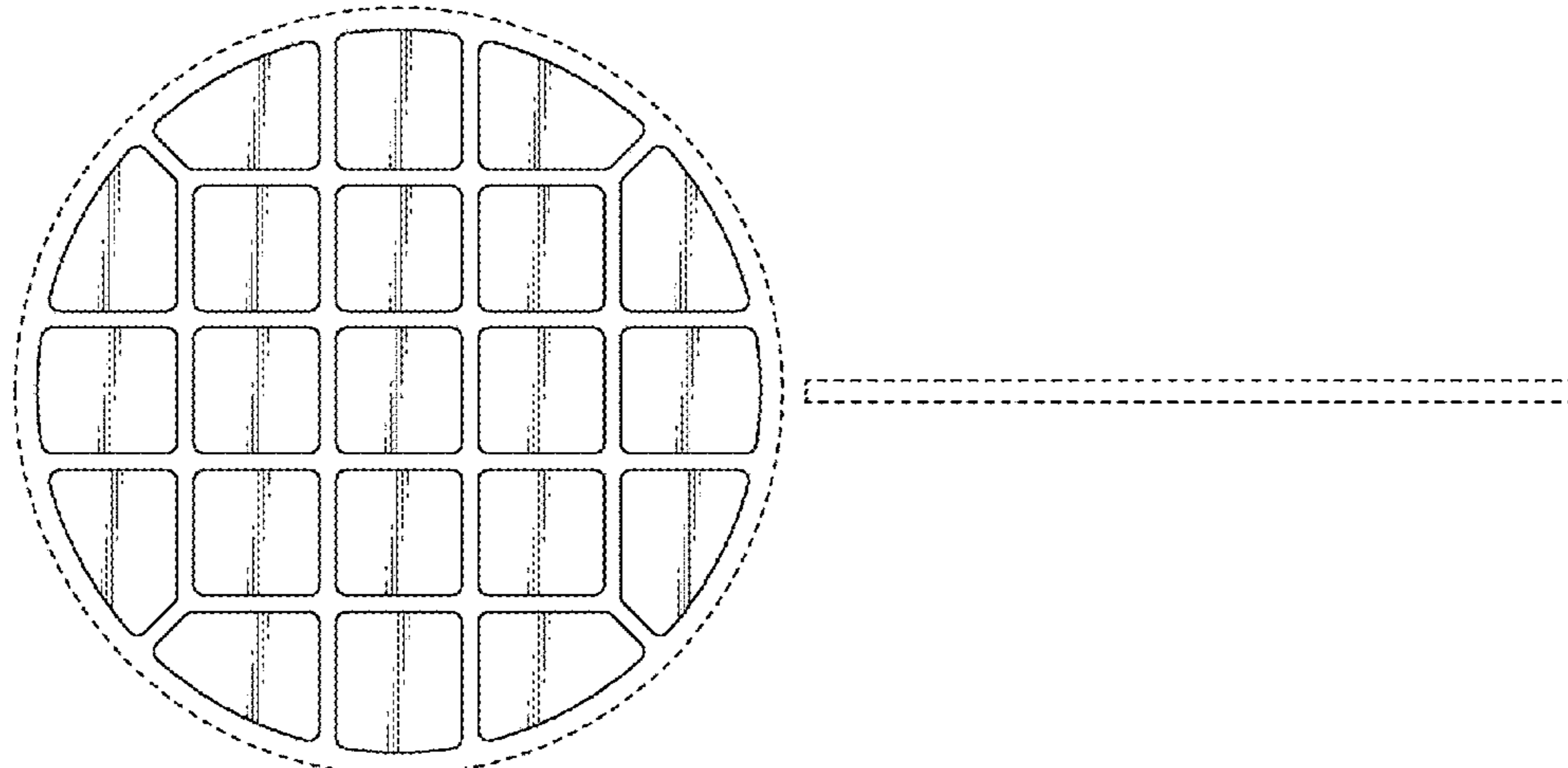
(57) **CLAIM**

The ornamental design for a touch panel, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevation view of a touch panel, showing our new design;  
FIG. 2 is a top plan view thereof, the bottom side being a mirror image thereof;  
FIG. 3 is a right side view thereof, the left side being a mirror image thereof; and,  
FIG. 4 is a rear elevation view thereof.  
The shading in the figures shows contour of surface, and not surface ornamentation.  
The broken lines in the drawings depict portions of the touch panel that form no part of the claimed design.  
The unshaded front-facing surface shown in-between the solid lines and the broken lines and in-between the electrodes forms no part of the claimed design.

(Continued)



The electrodes slightly protrude from the surface of the substrate. However, the protrusion is about 20 to 30 nm above the surface, thus being too small to be visible in the figures.

**1 Claim, 4 Drawing Sheets**

(56)

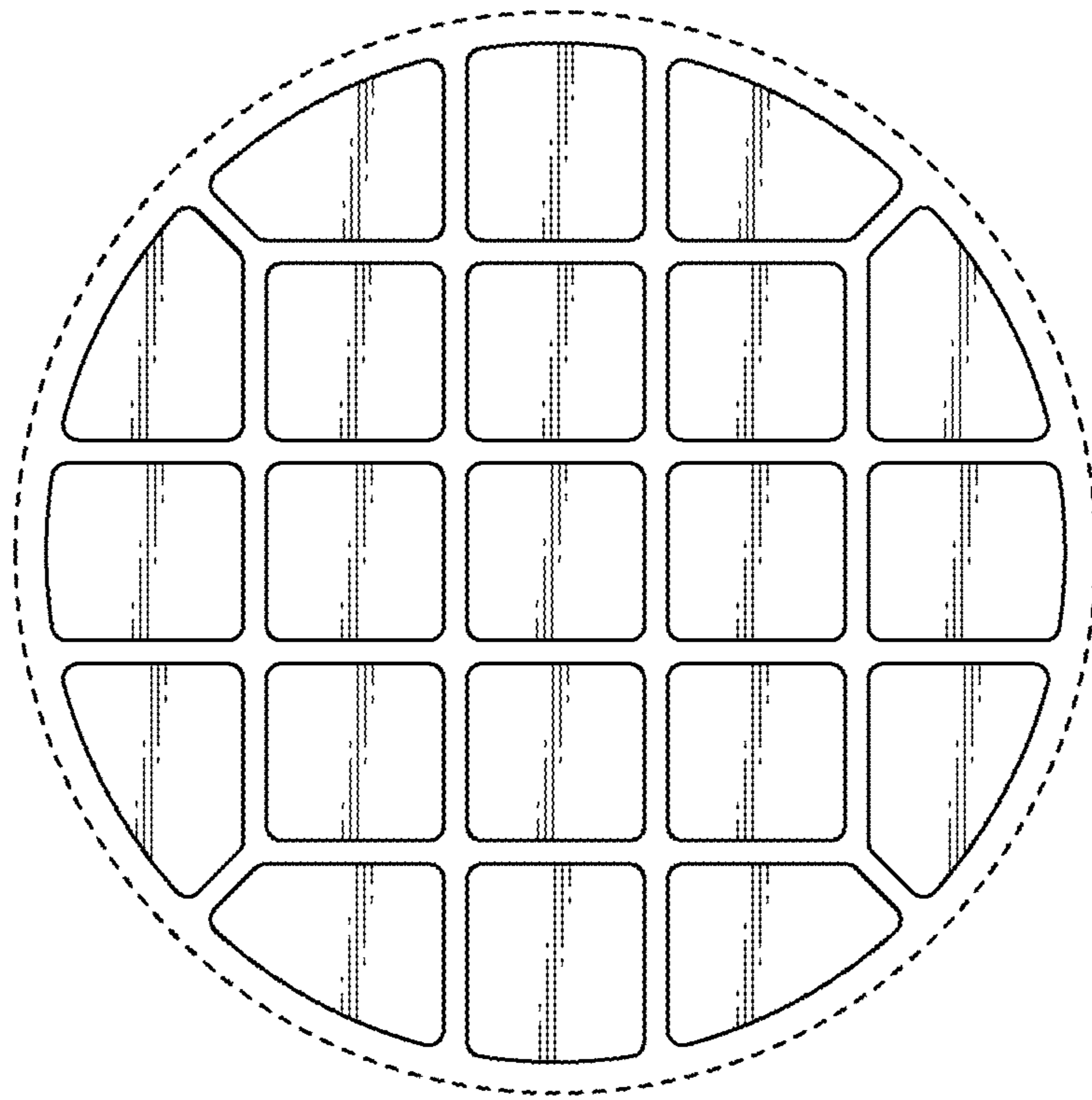
**References Cited**

U.S. PATENT DOCUMENTS

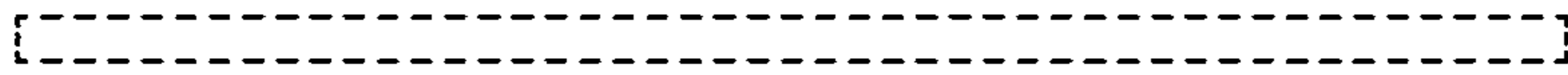
D425,519 S \* 5/2000 Merlin ..... D14/436  
 D426,816 S \* 6/2000 Lucente ..... D14/336  
 D456,025 S \* 4/2002 Komuta ..... D14/439  
 D460,079 S \* 7/2002 Brunner ..... D14/455  
 D487,082 S \* 2/2004 Wang ..... D14/247  
 D487,263 S \* 3/2004 Wang ..... D14/247  
 D487,454 S \* 3/2004 Wang ..... D14/247  
 D488,804 S \* 4/2004 Pitt ..... D14/455  
 D490,405 S \* 5/2004 Nuovo ..... D14/247  
 D493,449 S \* 7/2004 Wang ..... D14/247  
 D496,926 S \* 10/2004 Dalby ..... D14/247  
 D500,310 S \* 12/2004 Johansson ..... D14/247  
 D531,668 S \* 11/2006 Goodstriker ..... D19/60  
 D544,468 S \* 6/2007 Anandpura ..... D14/218  
 D552,601 S \* 10/2007 Oota ..... D14/218

D563,372 S \* 3/2008 Park ..... D14/138 AA  
 D568,880 S \* 5/2008 Husgafvel ..... D14/247  
 D574,373 S \* 8/2008 Tang ..... D14/247  
 D583,779 S \* 12/2008 Kuriyama ..... D13/182  
 D583,855 S \* 12/2008 Oas ..... D18/7  
 D612,352 S \* 3/2010 Zhou ..... D14/138 AB  
 D613,690 S \* 4/2010 Kuriki ..... D13/182  
 D624,907 S \* 10/2010 Komiya ..... D14/247  
 D694,091 S \* 11/2013 Gartner ..... D8/330  
 D696,808 S \* 12/2013 Rangesh ..... D26/71  
 D720,354 S \* 12/2014 Komatsu ..... D14/437  
 D742,841 S \* 11/2015 Kawaguchi ..... D13/182  
 D766,374 S \* 9/2016 Kujawski ..... D21/333  
 D794,024 S \* 8/2017 Kujawski ..... D14/401  
 D794,025 S \* 8/2017 Kujawski ..... D14/401  
 D812,692 S \* 3/2018 Nokuo ..... D21/333  
 D825,435 S \* 8/2018 Yu ..... D14/389  
 D829,917 S \* 10/2018 Duck ..... D24/187  
 D858,463 S \* 9/2019 Nien ..... D13/168  
 D860,119 S \* 9/2019 Kang ..... D12/415  
 D860,121 S \* 9/2019 Kang ..... D12/415  
 D860,124 S \* 9/2019 Kang ..... D12/415  
 D868,009 S \* 11/2019 Dimberg ..... D13/174  
 D868,010 S \* 11/2019 Bard ..... D13/174  
 D870,733 S \* 12/2019 Fountain ..... D14/426  
 D909,396 S \* 2/2021 Whitaker ..... D14/454  
 D915,257 S \* 4/2021 Dellemann ..... D12/192  
 2017/0307924 A1 \* 10/2017 Liu ..... G06F 3/0412  
 2019/0138136 A1 \* 5/2019 Nakayama ..... G06F 3/0412

\* cited by examiner



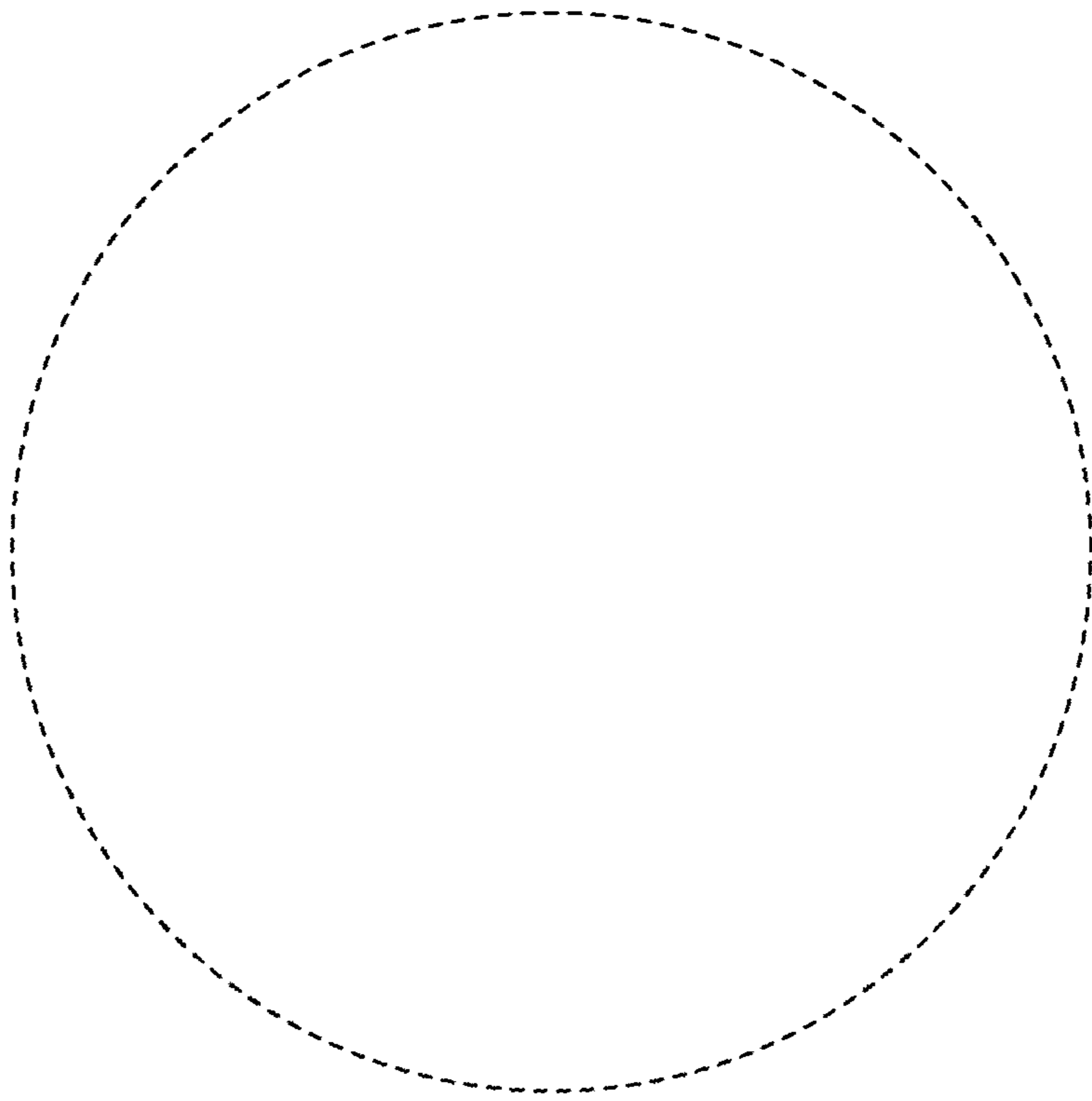
*Fig. 1*



*Fig.2*



*Fig.3*



*Fig.4*