



US00D880437S

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

(10) **Patent No.:** **US D880,437 S**  
(45) **Date of Patent:** **\*\* Apr. 7, 2020**

(54) **GAS SUPPLY PLATE FOR SEMICONDUCTOR MANUFACTURING APPARATUS**

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

(21) Appl. No.: **29/646,377**

(22) Filed: **May 3, 2018**

(30) **Foreign Application Priority Data**

Feb. 1, 2018 (KR) ..... 30-2018-0005758

(51) **LOC (12) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/182**

(58) **Field of Classification Search**  
USPC ..... D13/182; D23/213

(Continued)

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(57) **CLAIM**

The ornamental design for a gas supply plate for semiconductor manufacturing apparatus, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a gas supply plate for semiconductor manufacturing apparatus showing my new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a right side elevational view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is an enlarged view of the portion labeled “FIG. 8” indicated in FIG. 6;

FIG. 9 is an enlarged view of the portion labeled “FIG. 9” indicated in FIG. 7; and,

FIG. 10 is a cross sectional view taken along line 10-10 in FIG. 9.

The even dashed broken lines shown in the drawings represent portions of the gas supply plate for semiconductor manufacturing apparatus that form no part of the claimed design. The dashed-dot-dashed lines represent the boundary between the claimed portions and unclaimed portions of the claimed design. The claimed portion is directed to the solid circles shown within the dashed-dot-dashed lines, which appear at the center region of the gas supply plate.

**1 Claim, 6 Drawing Sheets**

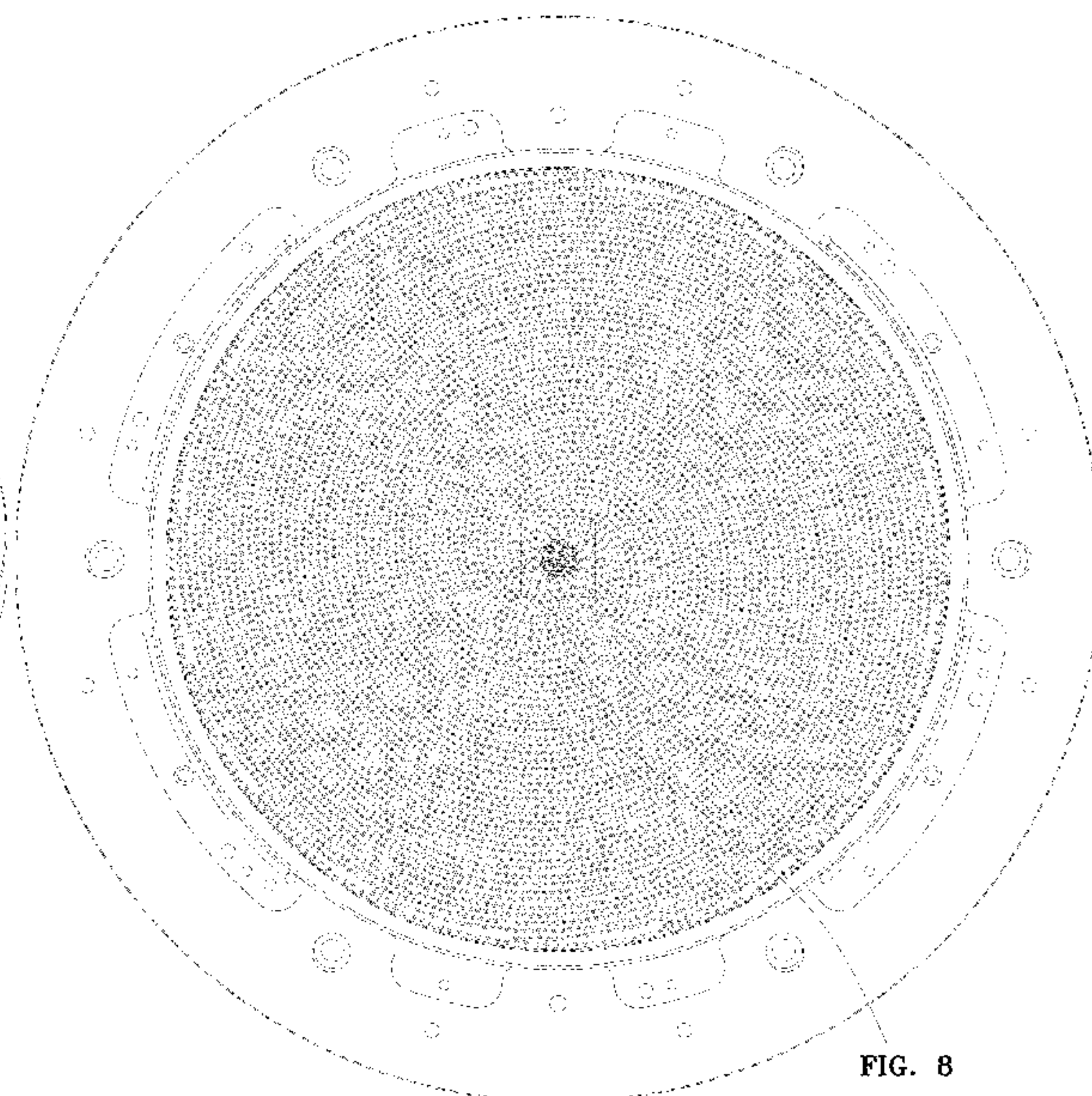
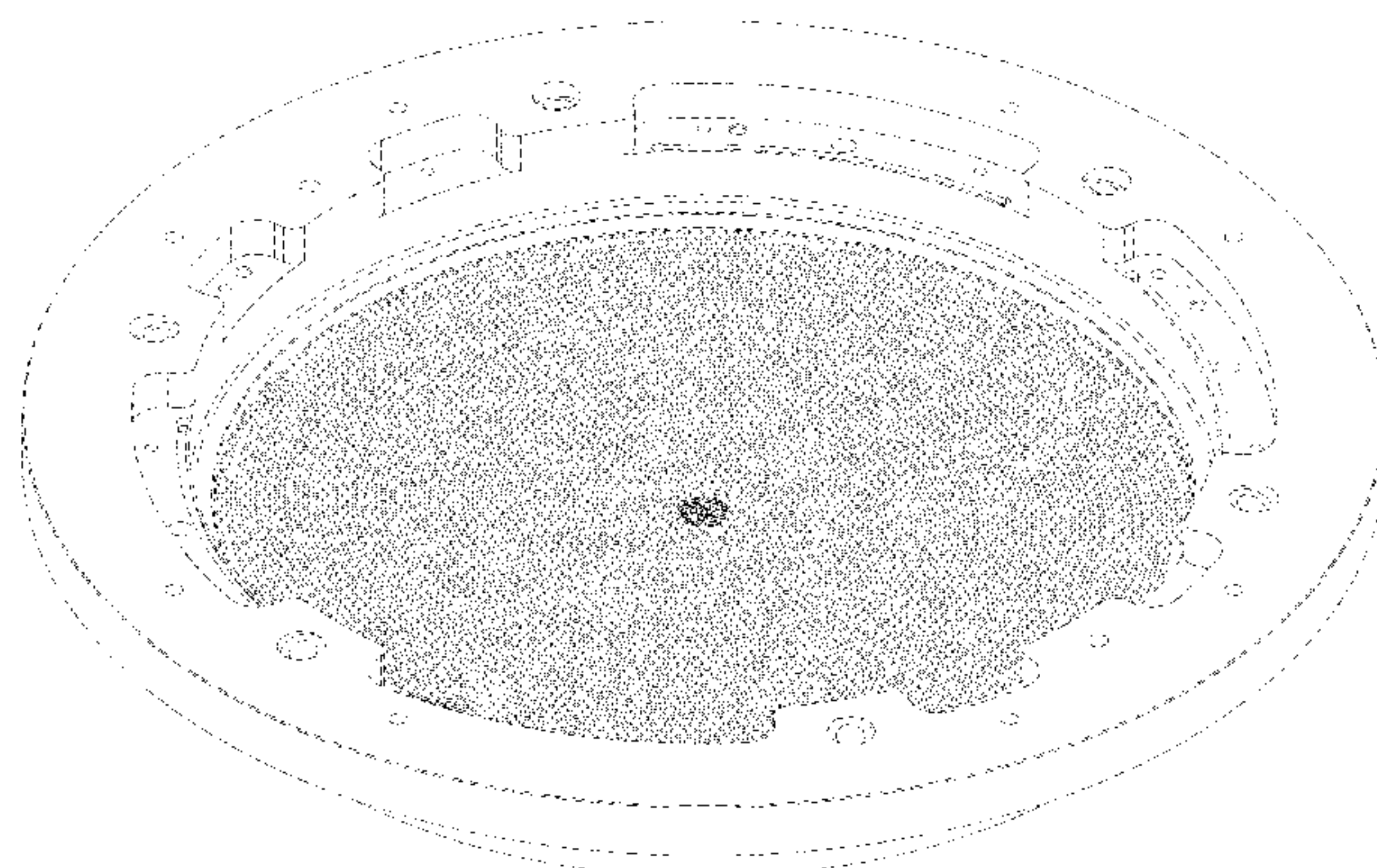


FIG. 8



(58) **Field of Classification Search**

CPC .....	H01J 37/32623; H01J 37/32633; H01J 37/32642; H01J 37/32; H01J 37/3244; H01J 37/32449; H01L 21/67; H01L 21/67011; H01L 21/67063; H01L 21/67069; H01L 21/6708; H01L 21/68098; H01L 21/67109; H01L 21/6875; H01L 21/68714; F27B 15/00; F27B 15/006; F27B 15/10; C30B 31/10; C30B 31/16; C30B 31/165; C30B 31/14; C30B 33/12; F27D 5/00; F27D 5/0037; F27D 7/02; F27D 7/00; F27D 7/023; G21D 9/673; G21D 9/675; G21D 9/677; G21D 9/42; G21D 9/54; G21D 9/0025; B21C 47/26; C23C 16/4412; C23C 16/44; C23C 16/4401; C23C 16/4402; C23C 16/4404; C23C 16/4405; C23C 16/4408; C23C 16/455; C23C 16/45517; C23C 16/45519; C23C 16/45521; C23C 16/45559; C23C 16/45563; C23C 16/45565; C23C 16/45568; C23C 16/4557; C23C 16/45587; C23C 16/458; C23C 16/4581; C23C 16/4582; C23C 16/4584; C23C 16/46; C23C 16/466	4,181,330 A 4,194,536 A 4,217,463 A 4,234,449 A 4,322,592 A 4,333,735 A 4,355,912 A 4,389,973 A 4,393,013 A 4,401,507 A 4,414,492 A 4,436,674 A 4,444,990 A 4,454,370 A 4,455,193 A 4,466,766 A 4,479,831 A 4,499,354 A 4,512,113 A 4,527,005 A 4,537,001 A 4,548,688 A 4,570,328 A 4,575,636 A 4,578,560 A 4,579,378 A 4,579,623 A 4,590,326 A 4,611,966 A 4,620,998 A D288,556 S 4,653,541 A 4,654,226 A 4,664,769 A 4,681,134 A 4,718,637 A 4,721,533 A 4,722,298 A 4,724,272 A 4,735,259 A 4,749,416 A 4,753,192 A 4,753,856 A 4,756,794 A 4,771,015 A 4,780,169 A 4,789,294 A 4,821,674 A 4,827,430 A 4,830,515 A 4,837,113 A 4,837,185 A 4,854,263 A 4,854,266 A 4,857,137 A 4,857,382 A 4,882,199 A 4,916,091 A 4,934,831 A 4,949,848 A D311,126 S 4,976,996 A 4,978,567 A 4,984,904 A 4,985,114 A 4,986,215 A 4,987,856 A 4,989,992 A 4,991,614 A 5,013,691 A 5,027,746 A 5,028,366 A 5,057,436 A 5,060,322 A 5,061,083 A 5,062,386 A 5,065,698 A 5,071,258 A 5,074,017 A	1/1980 Kojima 3/1980 Stine et al. 8/1980 Swearingen 11/1980 Wolson et al. 3/1982 Martin 6/1982 Hardy 10/1982 Haak 6/1983 Suntola et al. 7/1983 McMenamin 8/1983 Engle 11/1983 Hanlet 3/1984 McMenamin 4/1984 Villar 6/1984 Voznick 6/1984 Jeuch et al. 8/1984 Geren et al. 10/1984 Sandow 2/1985 Hill et al. 4/1985 Budinger 7/1985 McKelvey et al. 8/1985 Uppstrom 10/1985 Mathews 2/1986 Price et al. 3/1986 Caprari 3/1986 Tanaka et al. 4/1986 Snyders 4/1986 Suzuki et al. 5/1986 Woldy 9/1986 Johnson 11/1986 Lalvani 3/1987 Wallgren 3/1987 Oehlschlaeger et al. 3/1987 Jackson et al. 5/1987 Cuomo et al. 7/1987 Paris 1/1988 Contin 1/1988 Phillippi et al. 2/1988 Rubin et al. 2/1988 Raniere et al. 4/1988 Vincent 6/1988 Greenspan 6/1988 Goldsmith et al. 6/1988 Haluska et al. 7/1988 Yoder 9/1988 Kanai 10/1988 Stark et al. 12/1988 Sato et al. 4/1989 deBoer et al. 5/1989 Aid et al. 5/1989 Cortes 6/1989 Luttmmer et al. 6/1989 Yau et al. 8/1989 Chang et al. 8/1989 Simson et al. 8/1989 Tashiro et al. 8/1989 Sheng et al. 11/1989 Sadoway et al. 4/1990 Freeman et al. 6/1990 Volbrecht 8/1990 Kos 10/1990 Crowley 12/1990 Monkowski et al. 12/1990 Miller 1/1991 Nakano et al. 1/1991 Okudaira 1/1991 Yamada 1/1991 Hey 2/1991 Piai 2/1991 Hammel 5/1991 Lory et al. 7/1991 Frijlink 7/1991 Harakal et al. 10/1991 Ball 10/1991 Delepine 10/1991 Grimm et al. 11/1991 Christensen 11/1991 Koike 12/1991 Usher et al. 12/1991 Toya et al.
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See application file for complete search history.

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FIG. 1

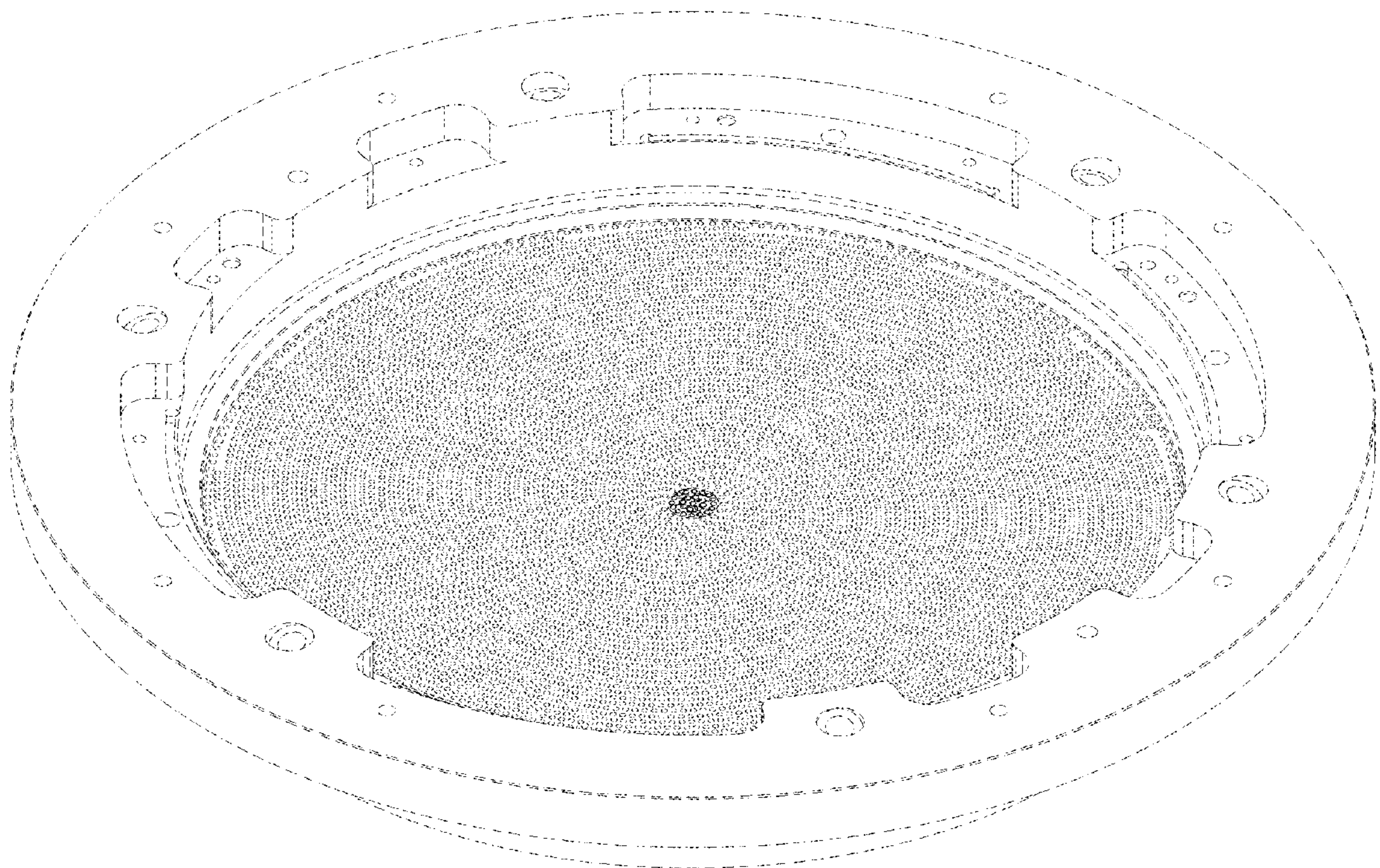


FIG. 2

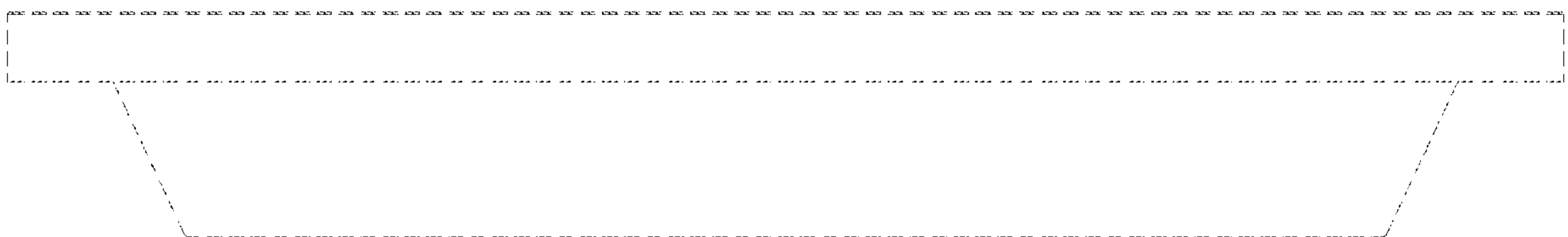




FIG. 3

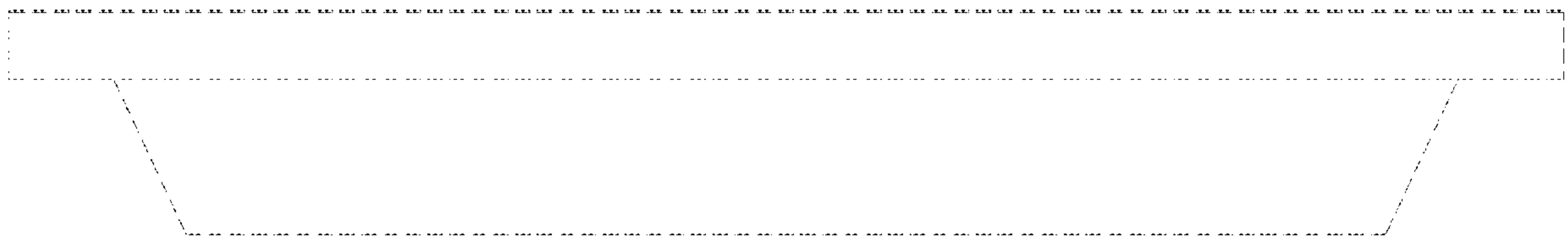


FIG. 4

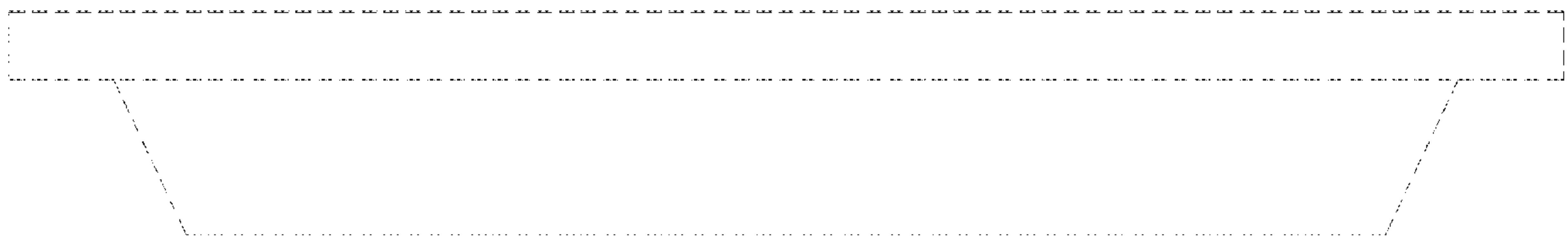


FIG. 5





FIG. 6

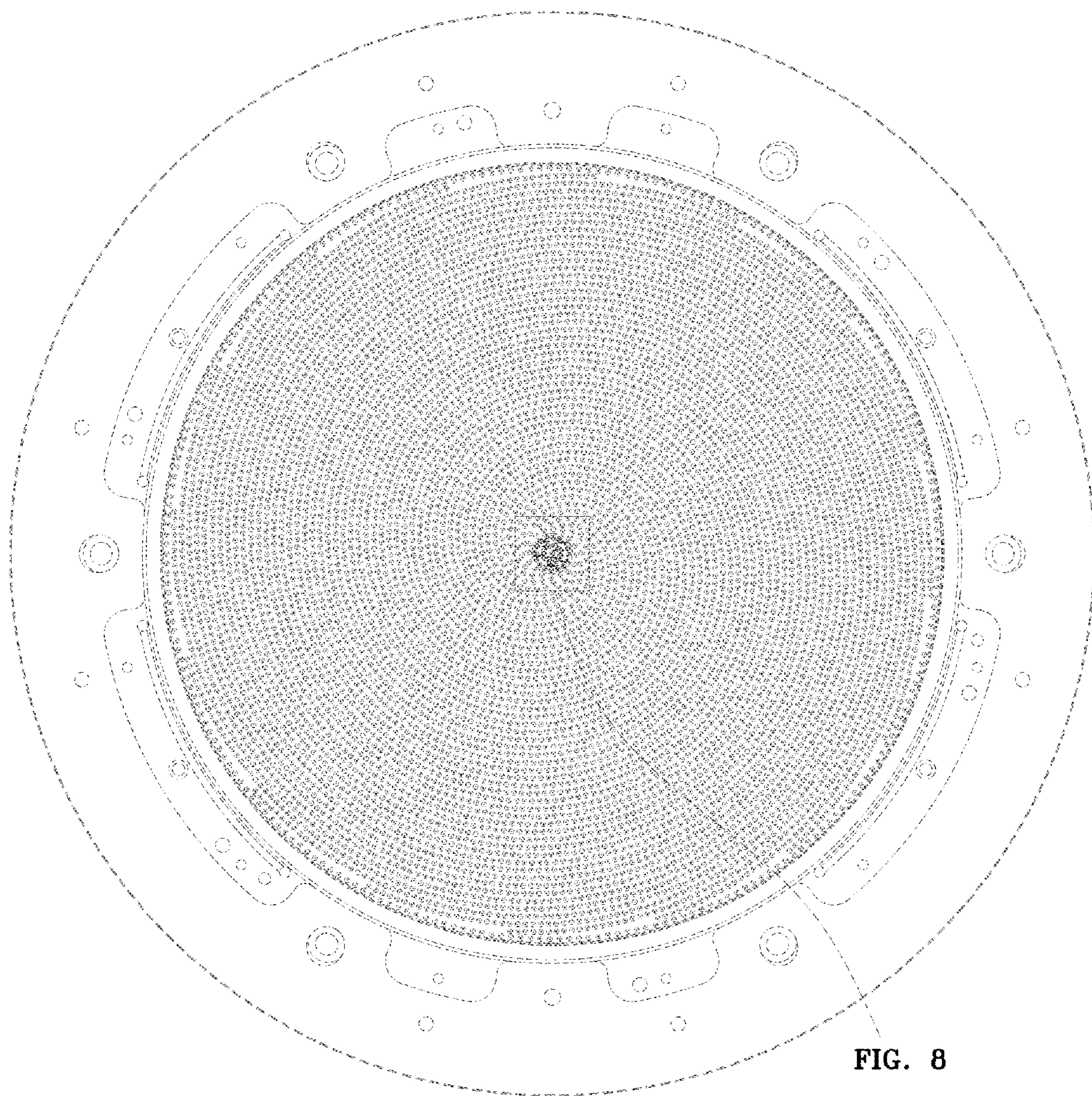




FIG. 7

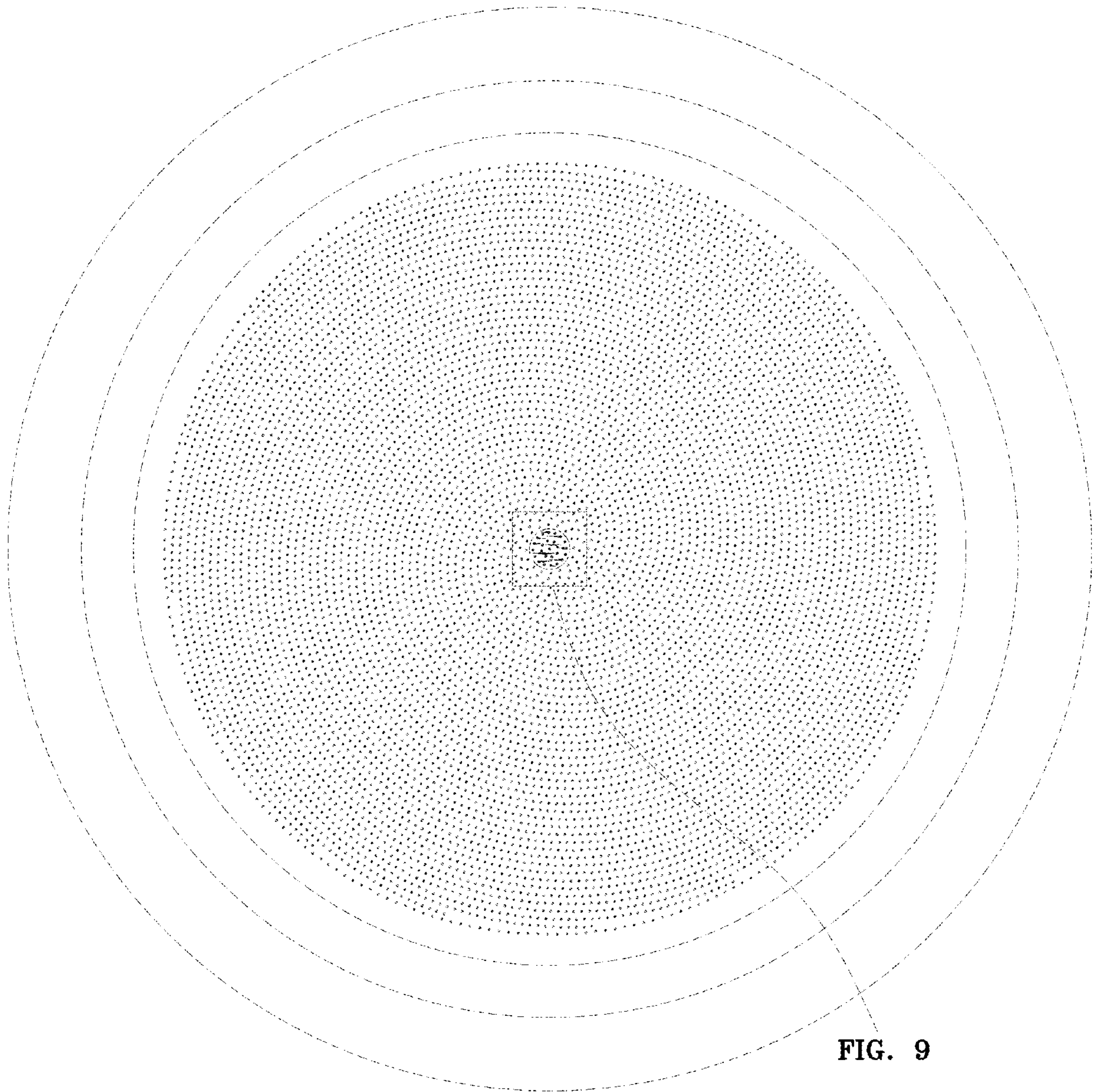


FIG. 9



FIG. 8

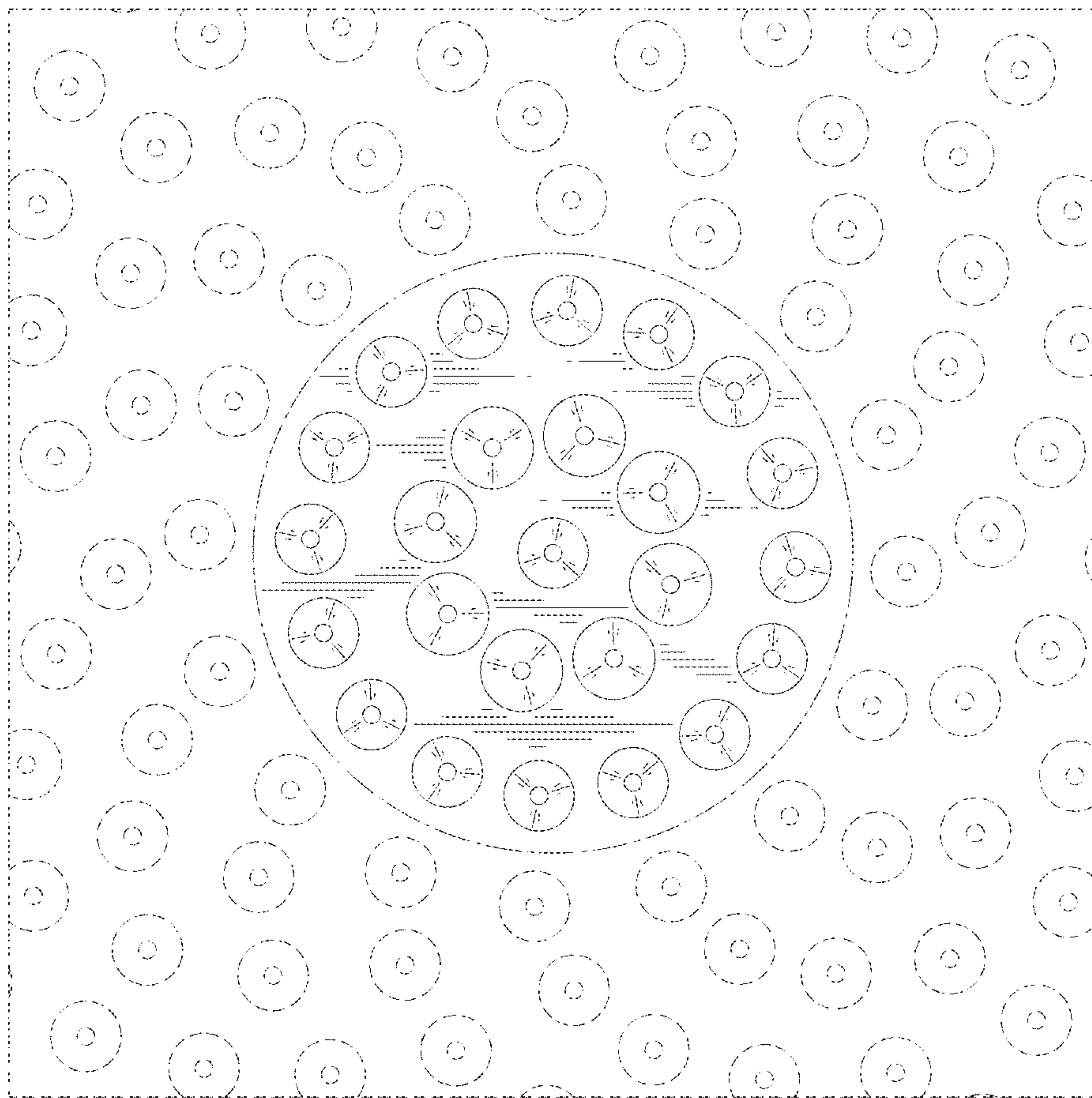




FIG. 9

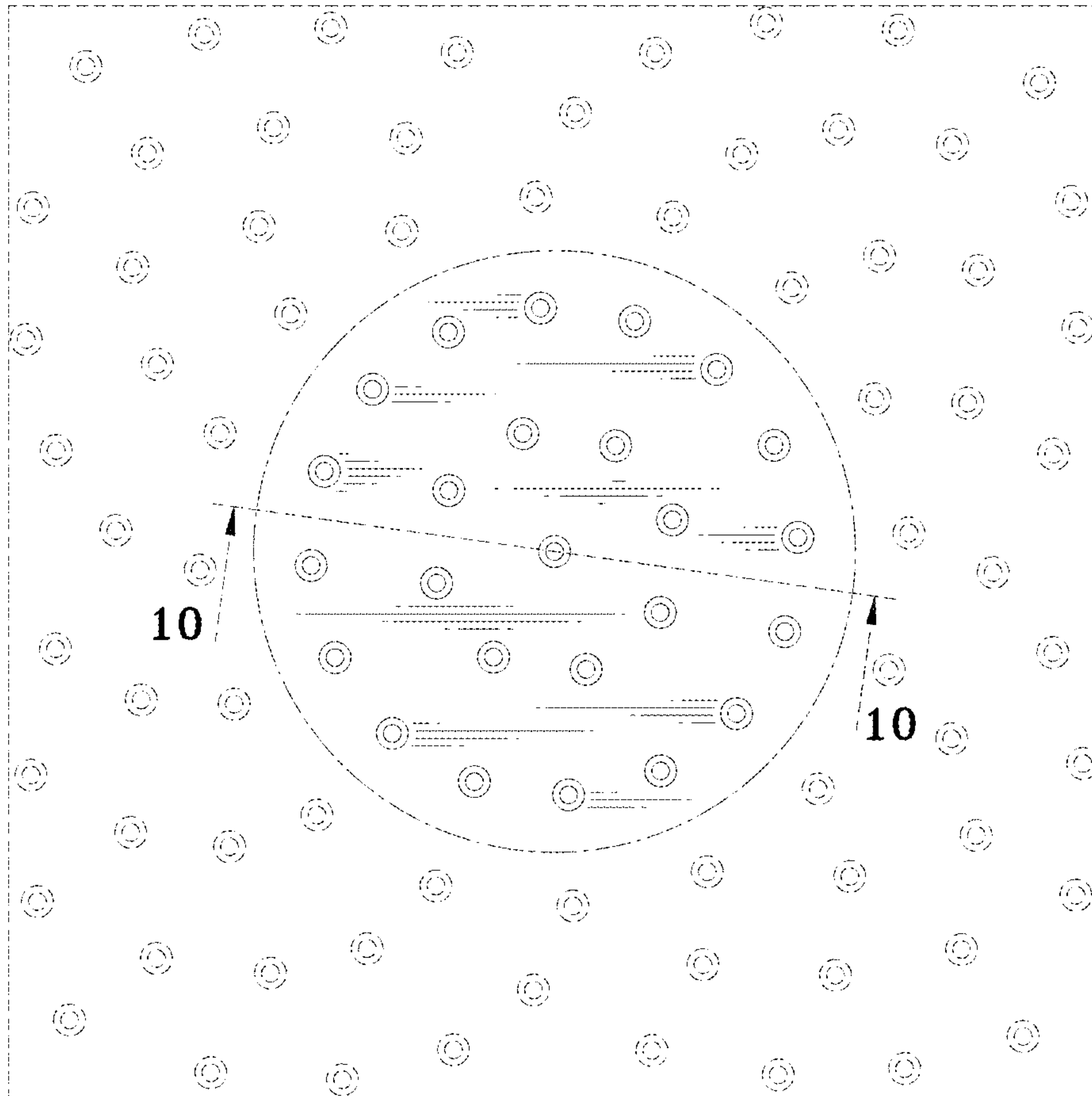


FIG. 10

