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(12) **United States Design Patent**  
**Widhalm**

(10) **Patent No.:** **US D777,310 S**  
(45) **Date of Patent:** **\*\* Jan. 24, 2017**

(54) **THERMAL OXIDIZER WITH AN APERTURE ARRANGEMENT**

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(73) Assignee: **Dürr Systems Inc.**, Plymouth, MI (US)

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/502,356**

(22) Filed: **Sep. 15, 2014**

**Related U.S. Application Data**

(63) Continuation-in-part of application No. PCT/US2014/053204, filed on Aug. 28, 2014.

(51) **LOC (10) Cl.** ..... **23-04**

(52) **U.S. Cl.**  
USPC ..... **D23/365**

(58) **Field of Classification Search**  
USPC ..... D23/355-365, 386-388, 314, 325,  
D23/333-336; 55/478, 482, 483, 490,  
55/497, 498, 520, 521, 529

(Continued)

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*Primary Examiner* — Sandra Snapp

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(57) **CLAIM**

The ornamental design for a "thermal oxidizer with an aperture arrangement," as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a thermal oxidizer with an aperture arrangement.

FIG. 2 is a front view of the aperture arrangement of FIG. 1. The rear view is the same as the front view. Therefore, the rear view is omitted.

FIG. 3 is a detailed view of a portion of the front view shown in FIG. 2.

FIG. 4 is a top view of the aperture arrangement of FIG. 1. The bottom, left and right views are the same as the top view. Therefore, the bottom, left and right views are omitted.

FIG. 5 is a perspective view of an aperture arrangement for a thermal oxidizer.

FIG. 6 is a front view of the aperture arrangement of FIG. 5. The rear view is the same as the front view. Therefore, the rear view is omitted.

FIG. 7 is a top view of the aperture arrangement of FIG. 5. The bottom, left and right views are the same as the top view. Therefore, the bottom, left and right views are omitted.

FIG. 8 is a perspective view of a thermal oxidizer with an aperture arrangement.

FIG. 9 is a front view of the aperture arrangement of FIG. 8. The rear view is the same as the front view. Therefore, the rear view is omitted.

FIG. 10 is a top view of the aperture arrangement of FIG. 8. The bottom, left and right views are the same as the top view. Therefore, the bottom, left and right views are omitted.

FIG. 11 is a perspective view of a thermal oxidizer with an aperture arrangement.

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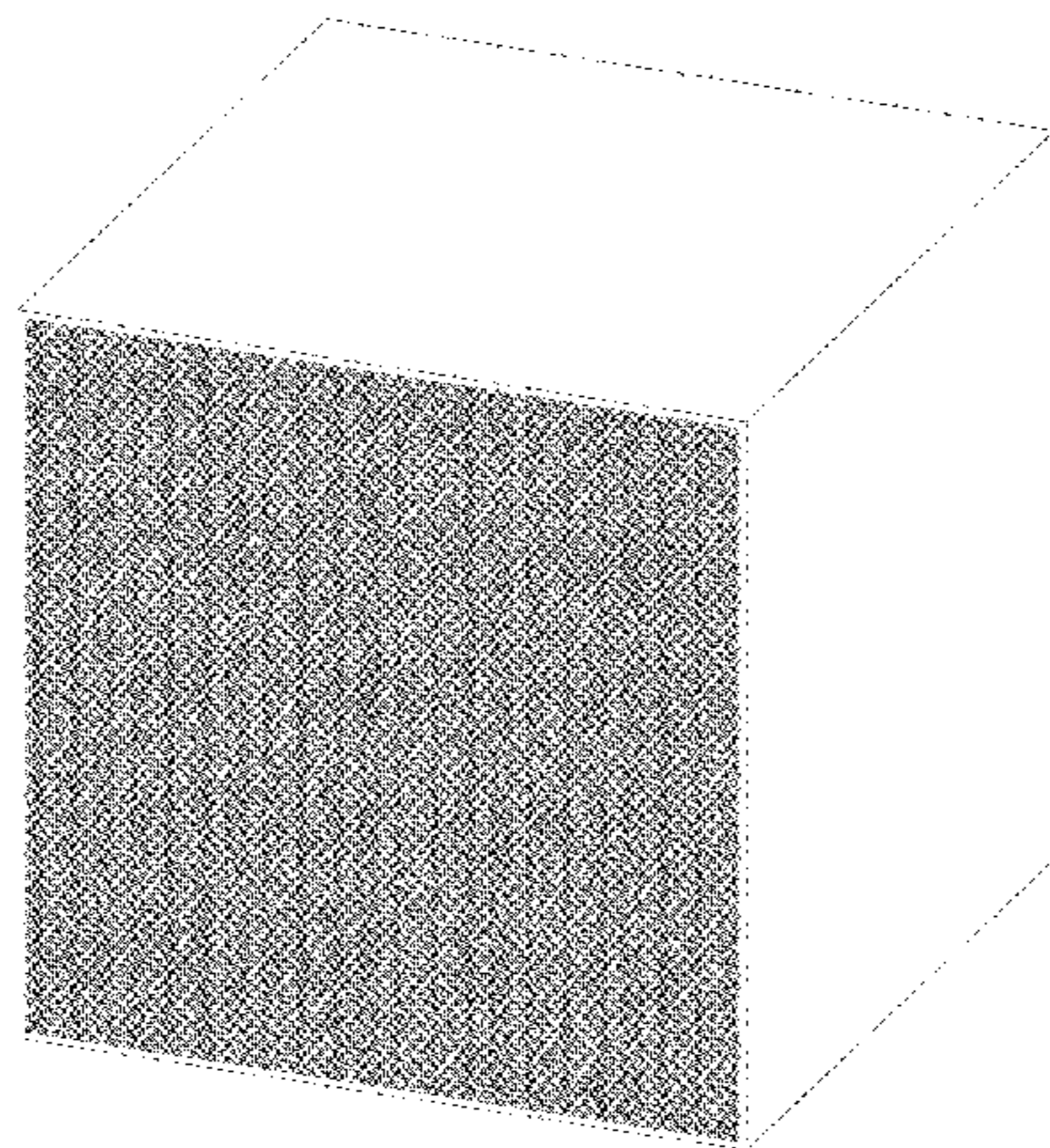


FIG. 12 is a front view of the aperture arrangement of FIG. 11. The rear view is the same as the front view. Therefore, the rear view is omitted.

FIG. 13 is a top view of the aperture arrangement of FIG. 11. The bottom, left and right views are the same as the top view. Therefore, the bottom, left and right views are omitted.

FIG. 14 is a perspective view of a thermal oxidizer with an aperture arrangement.

FIG. 15 is a front view of the aperture arrangement of FIG. 14. The rear view is the same as the front view. Therefore, the rear view is omitted; and,

FIG. 16 is a top view of the aperture arrangement of FIG. 14. The bottom, left and right views are the same as the top view. Therefore, the bottom, left and right views are omitted.

The features shown in broken lines form no part of the claimed design.

**1 Claim, 16 Drawing Sheets**

**(58) Field of Classification Search**

CPC ..... B01D 46/00; B01D 46/0004; B01D 27/04;  
B01D 27/06; B01D 39/00  
See application file for complete search history.

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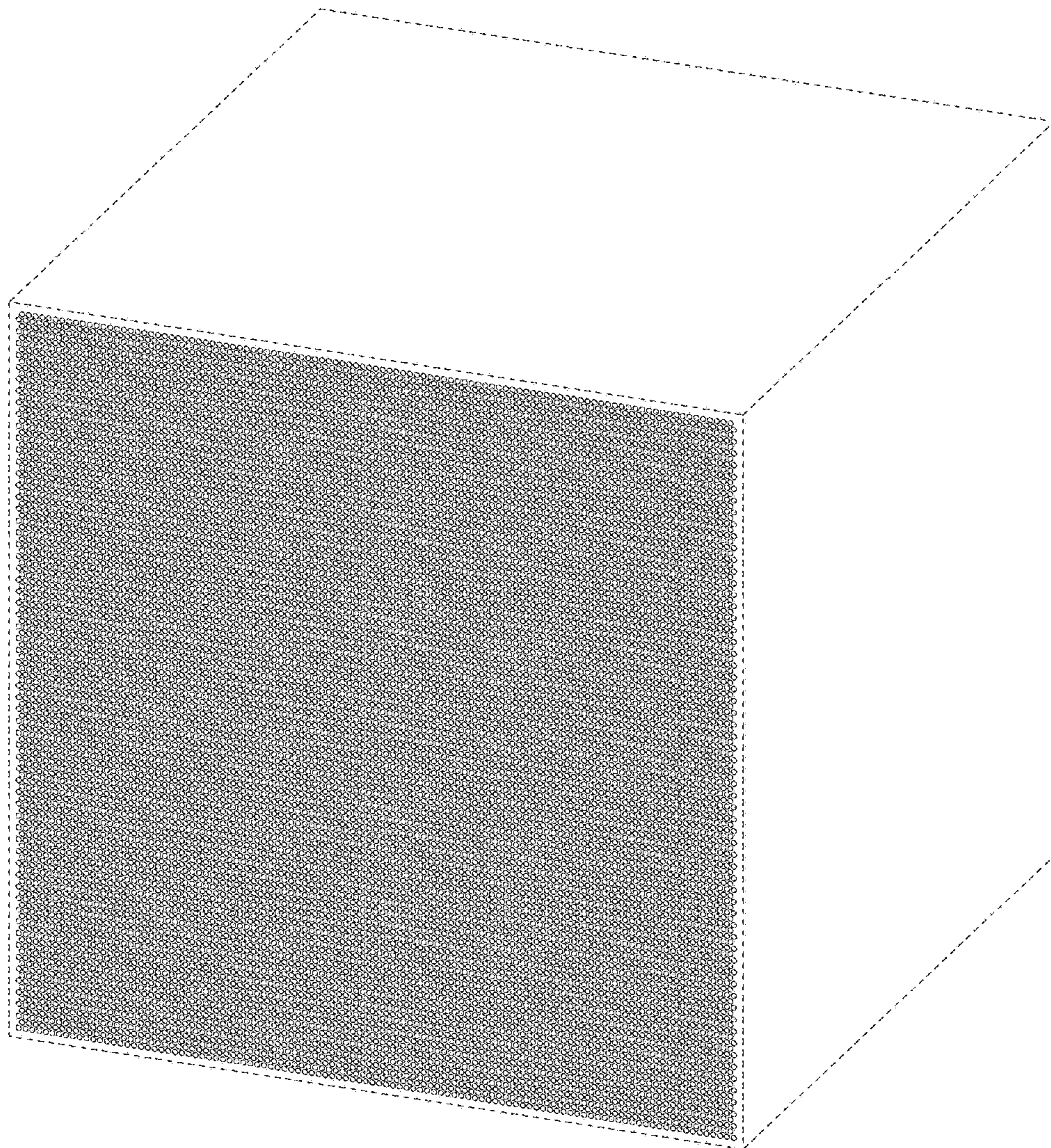


FIG. 1

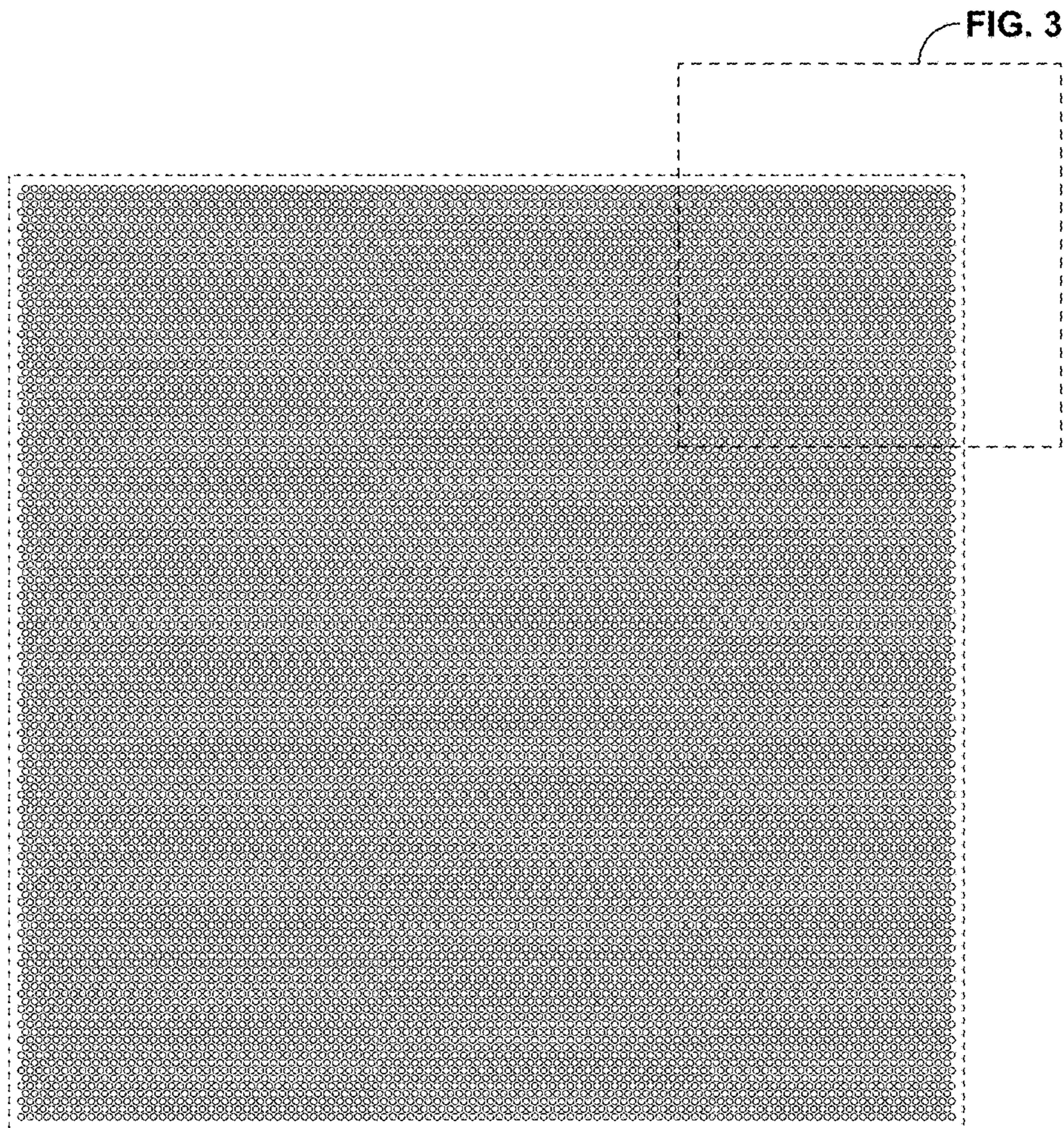


FIG. 2

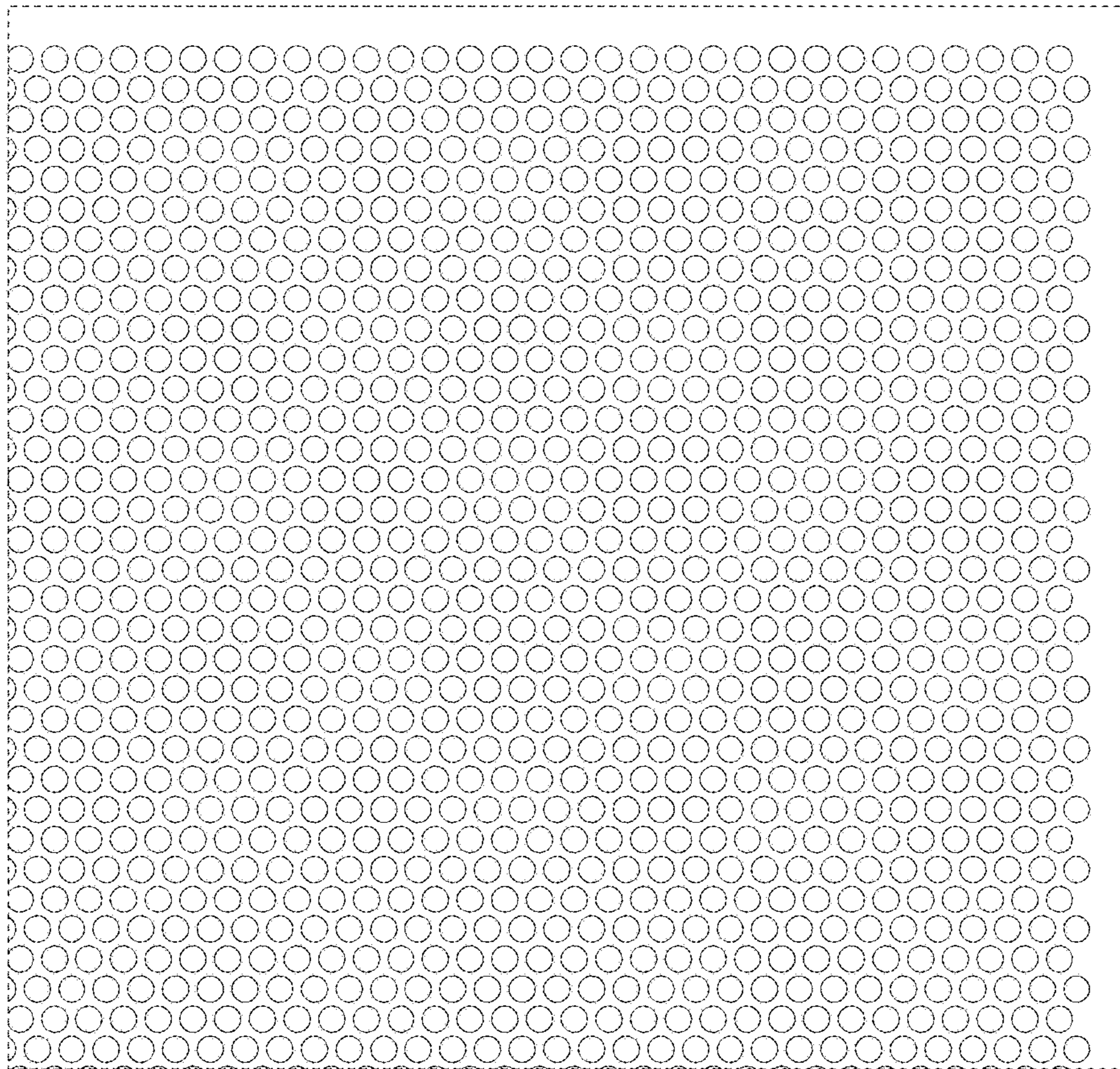


FIG. 3



**FIG. 4**

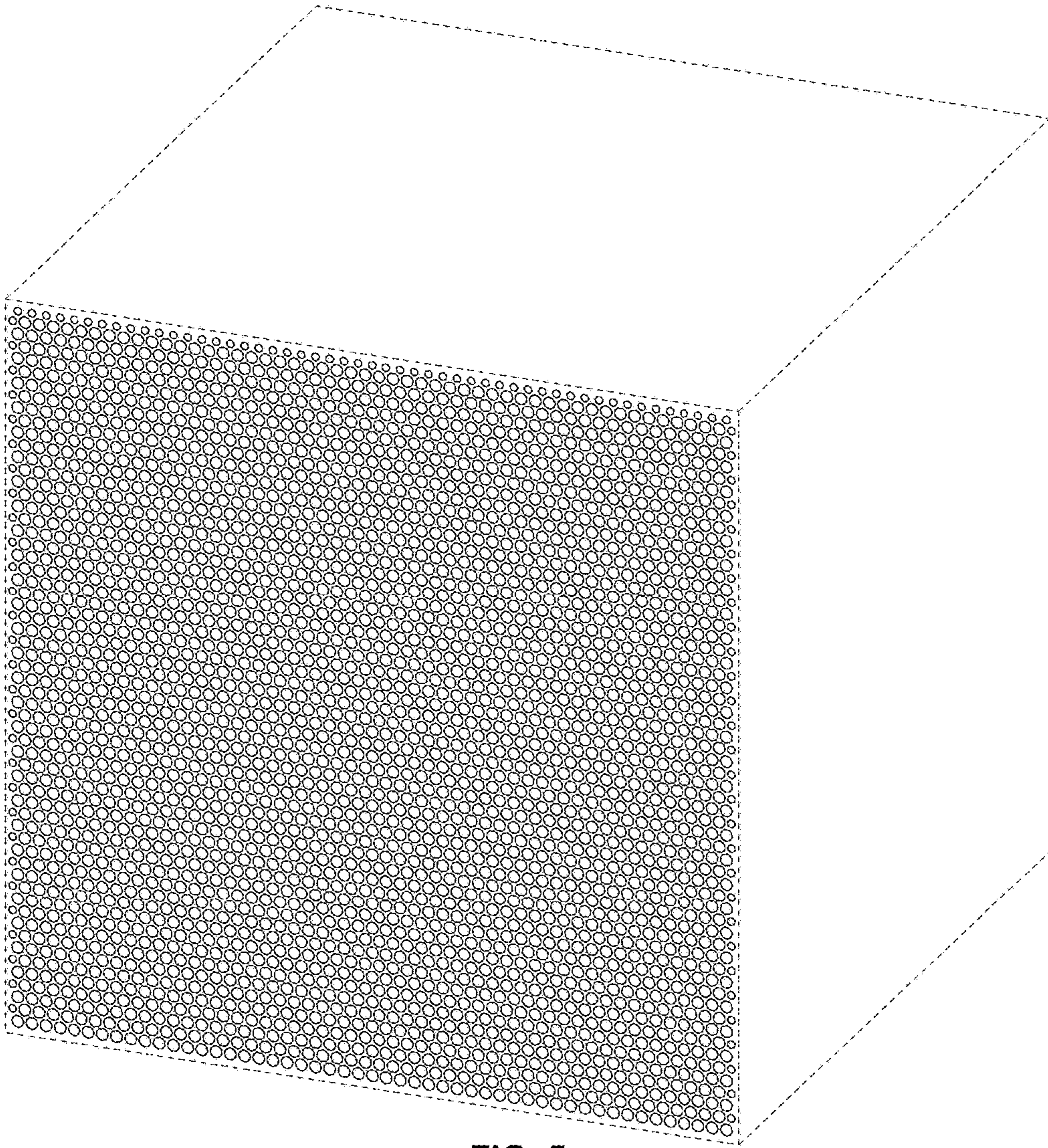


FIG. 5

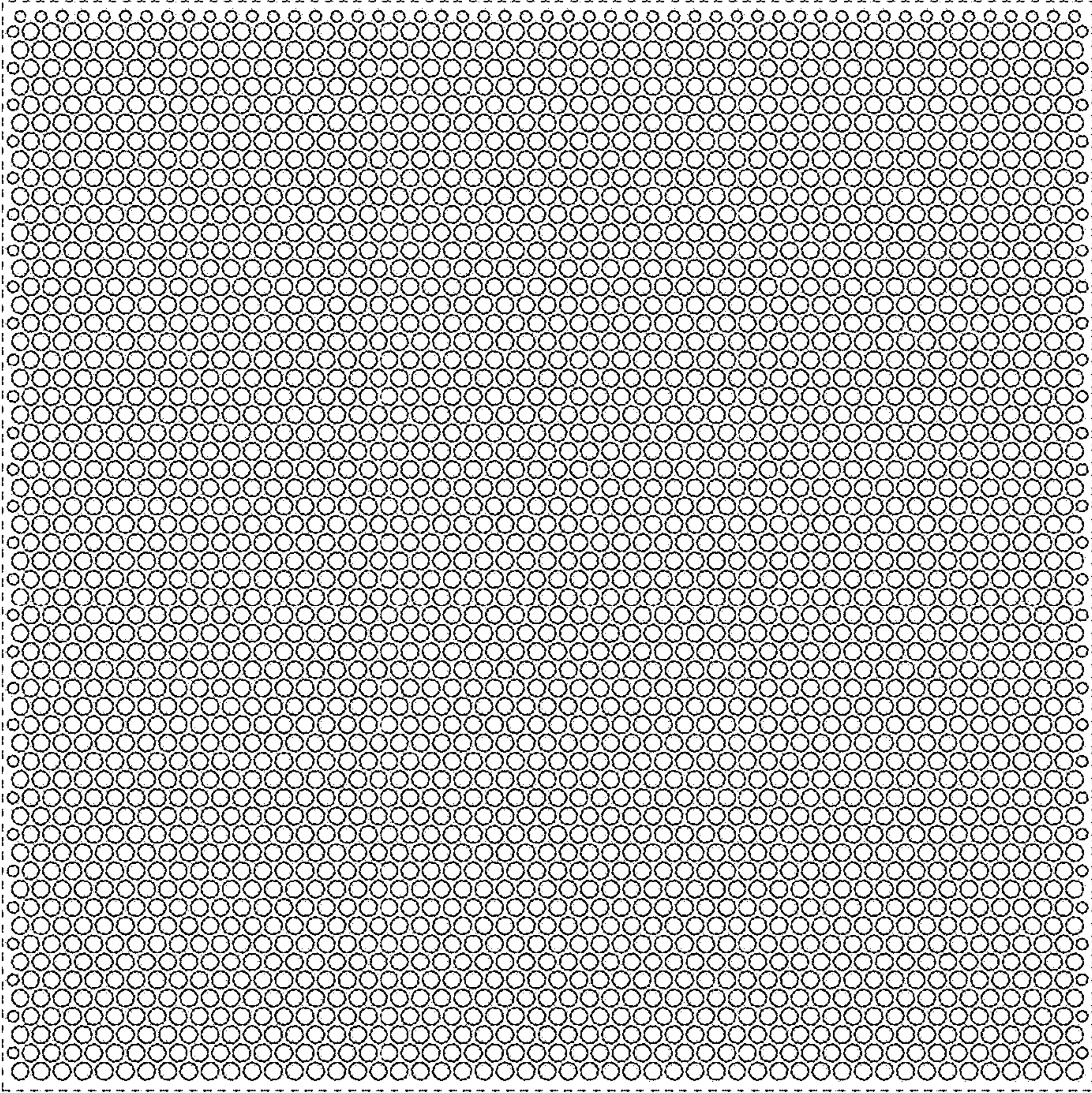
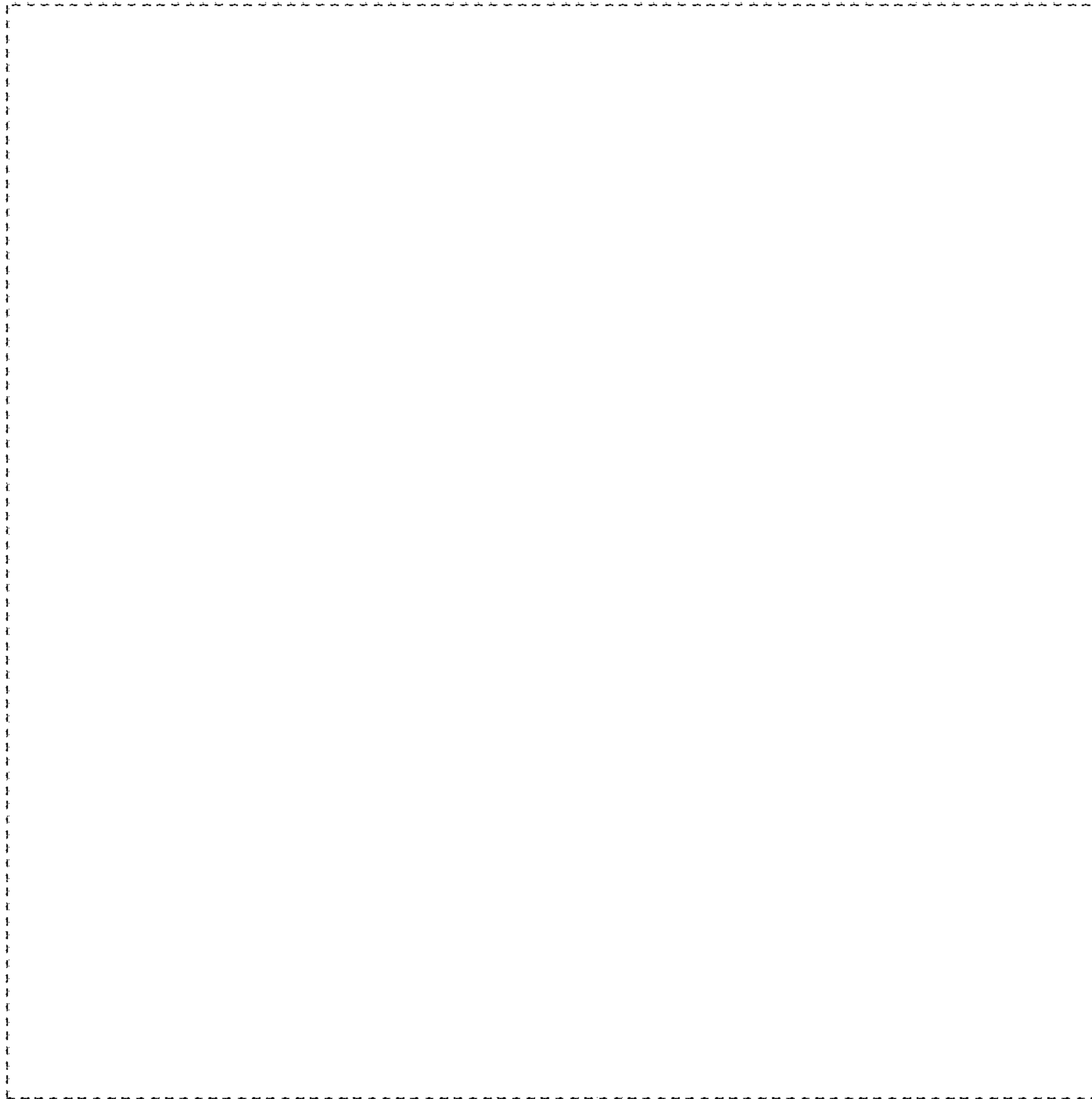


FIG. 6





**FIG. 7**

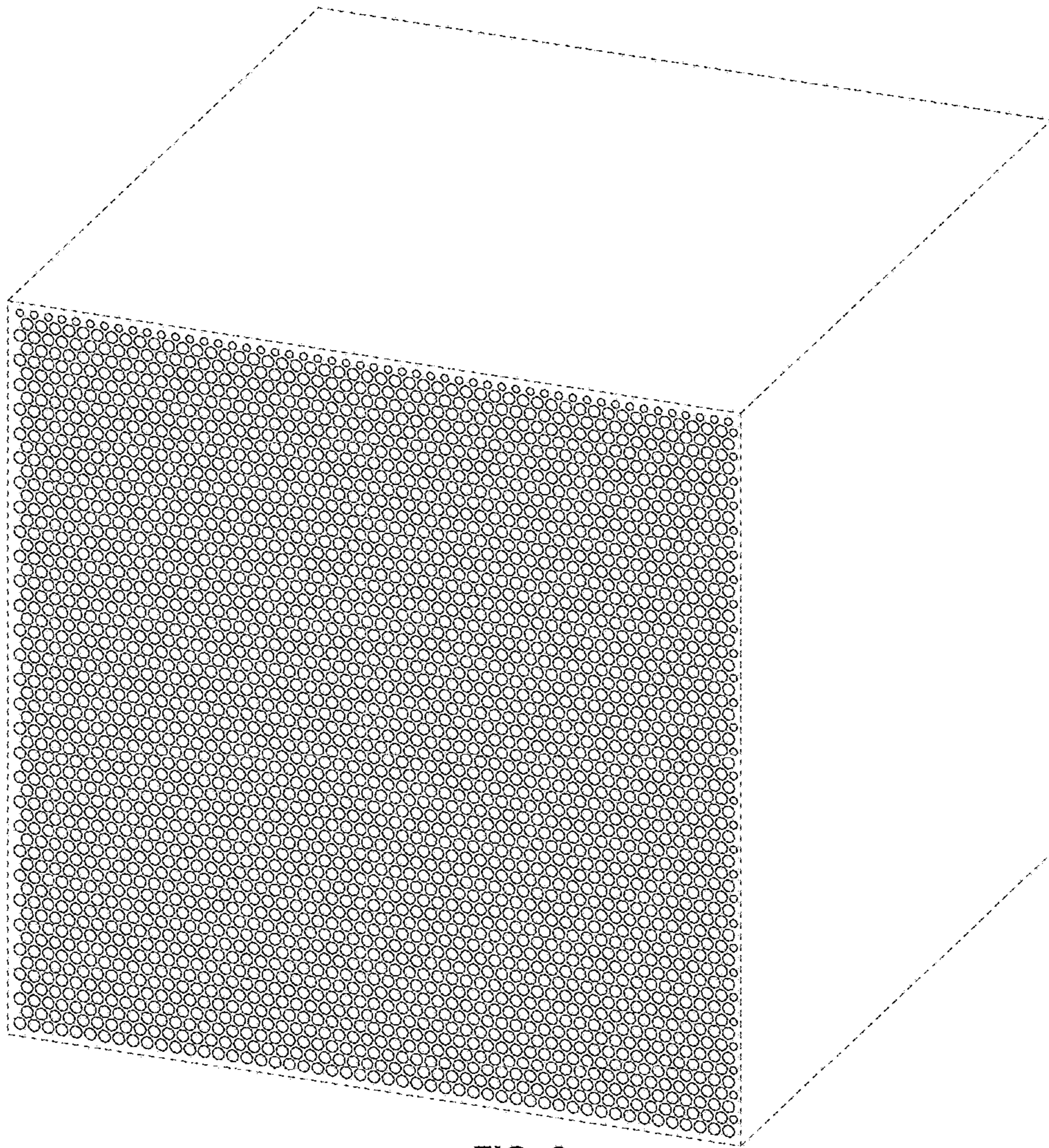


FIG. 8

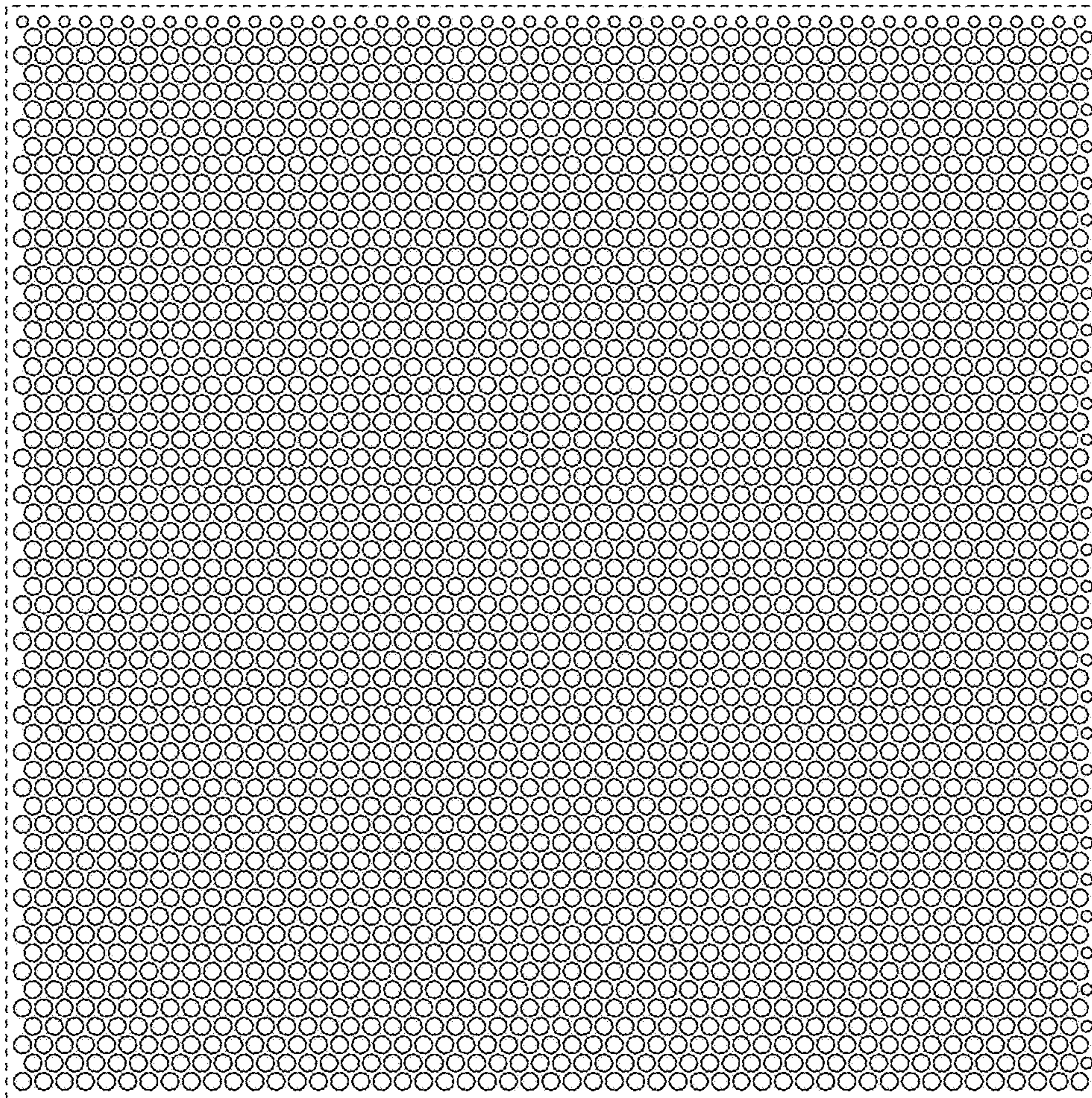
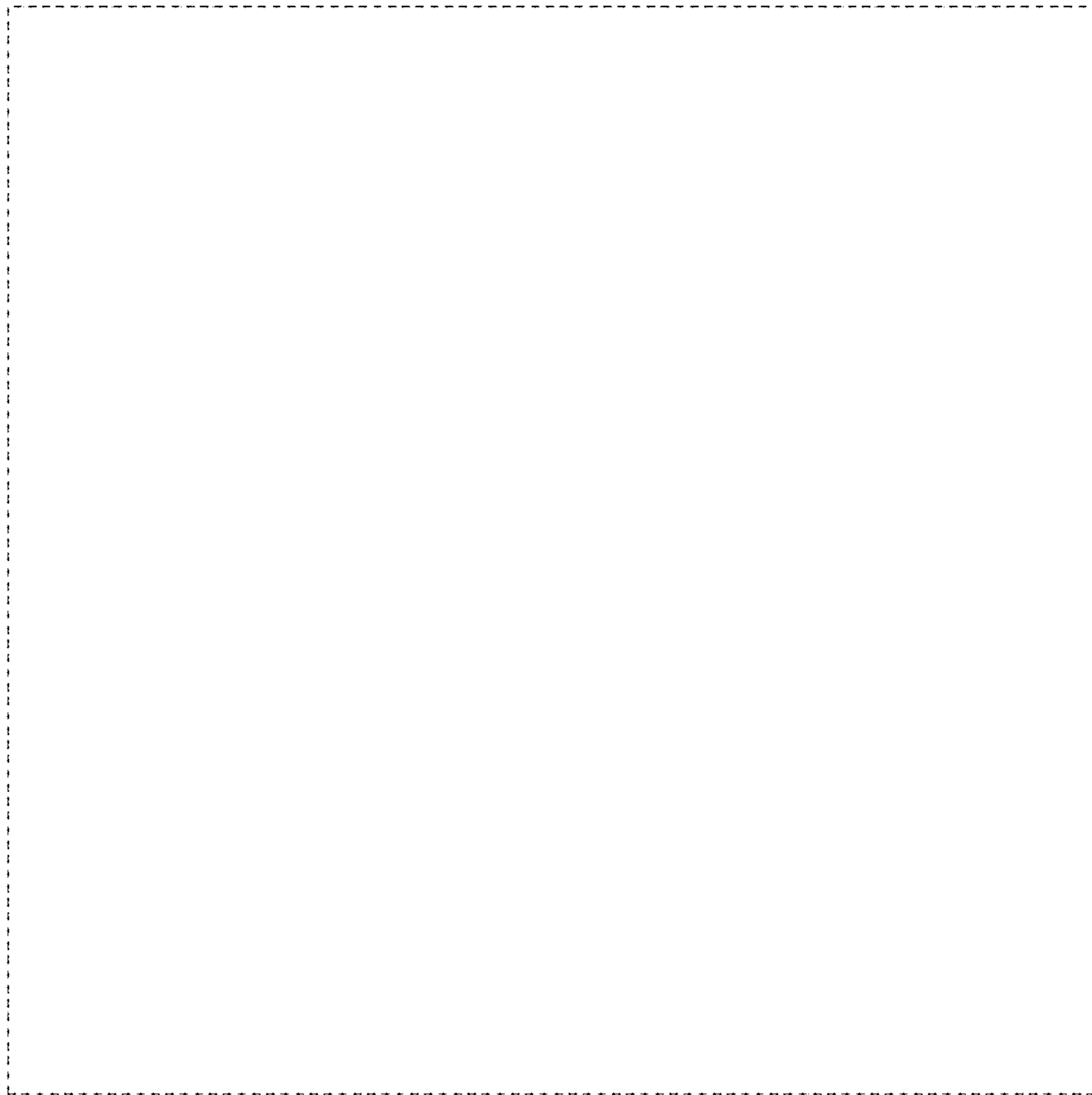


FIG. 9



**FIG. 10**

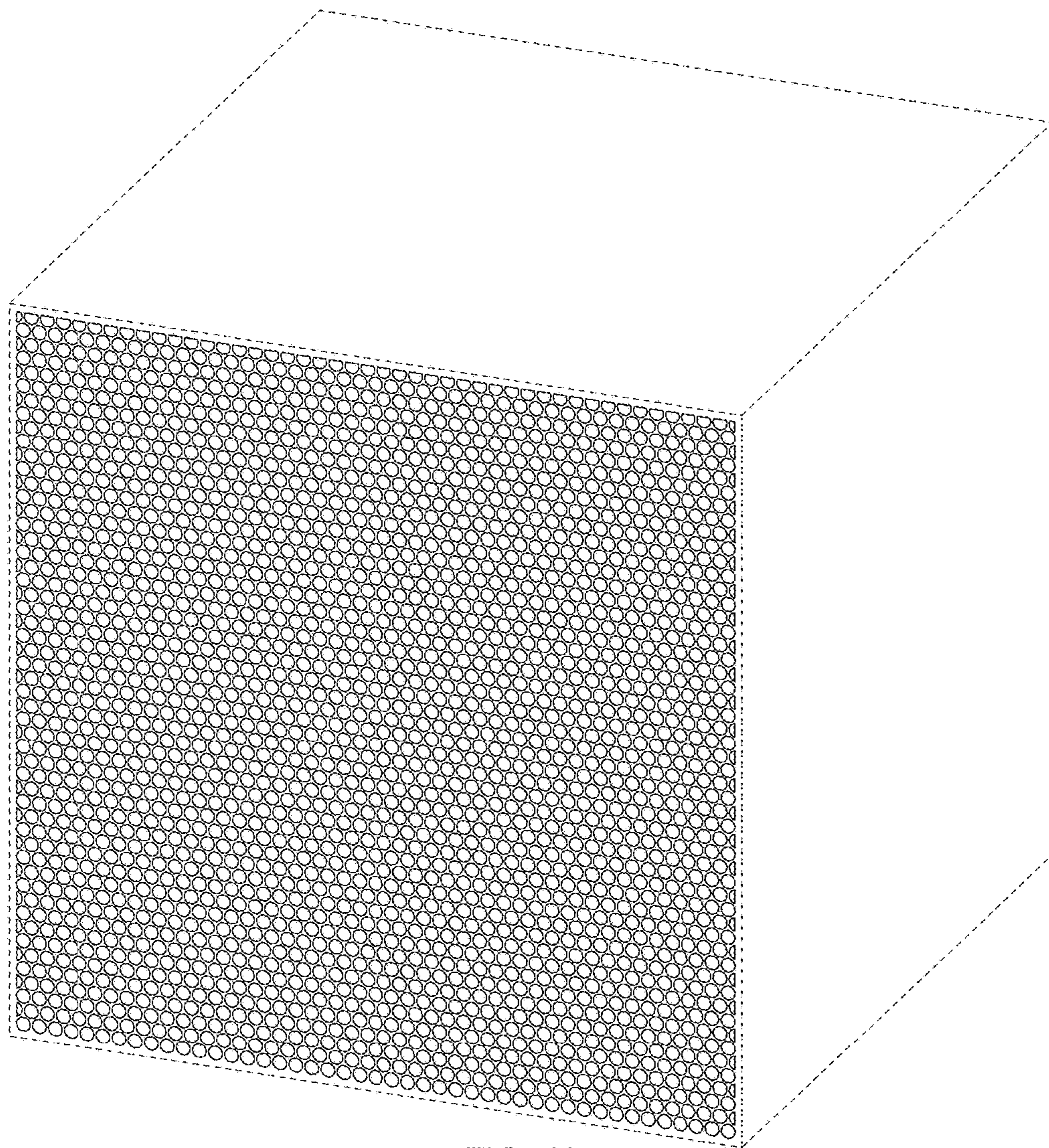


FIG. 11

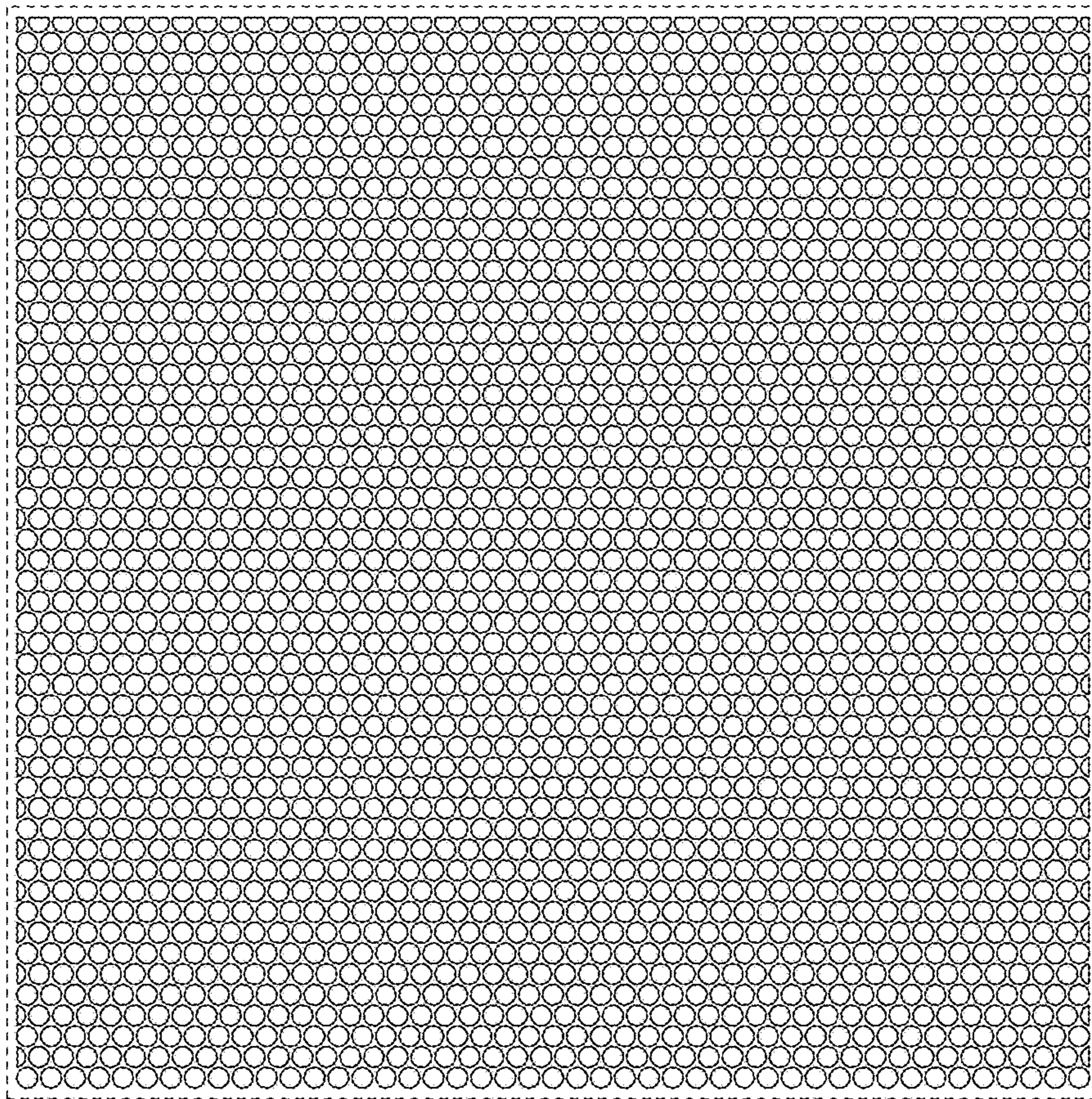
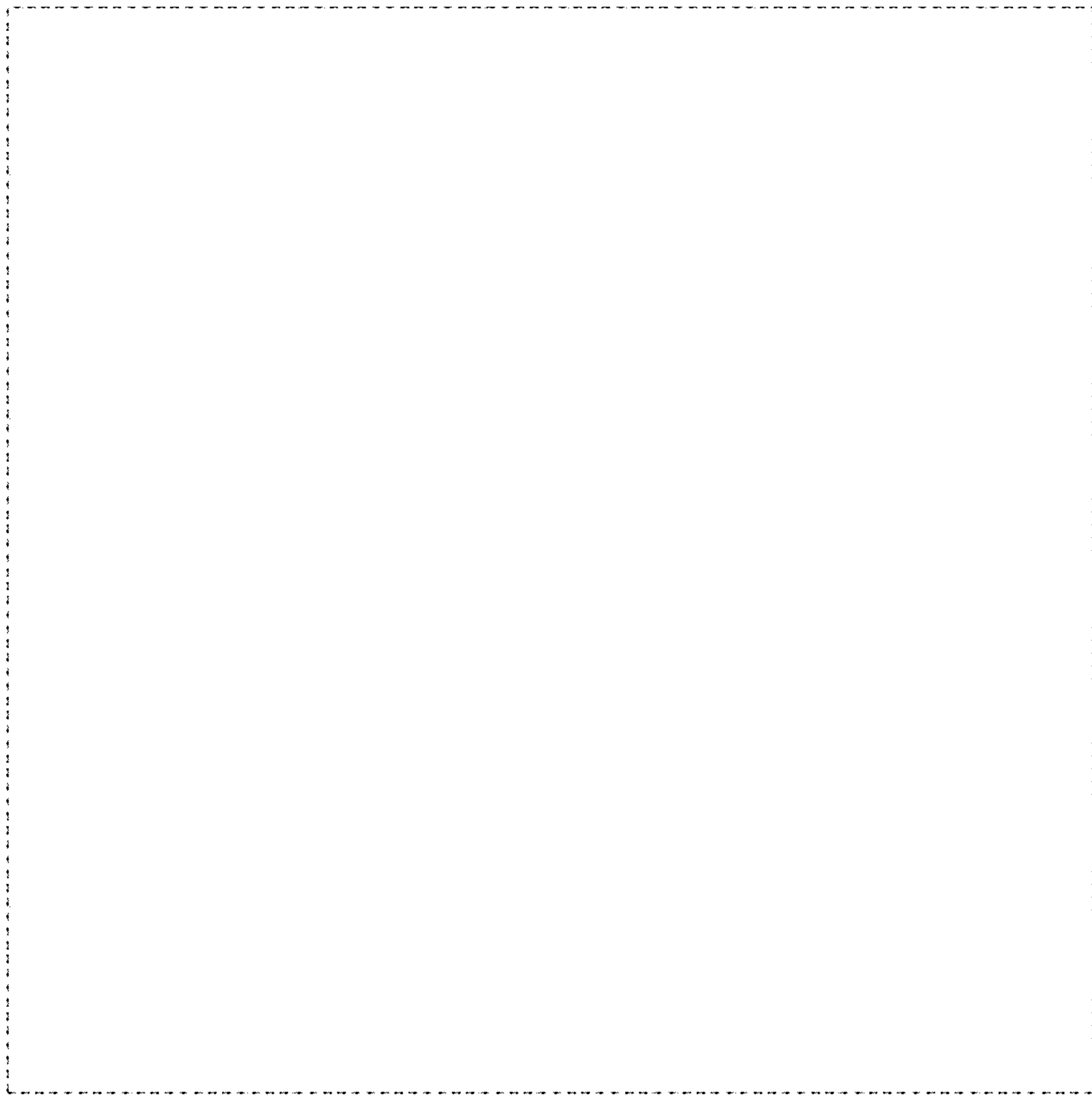


FIG. 12



**FIG. 13**

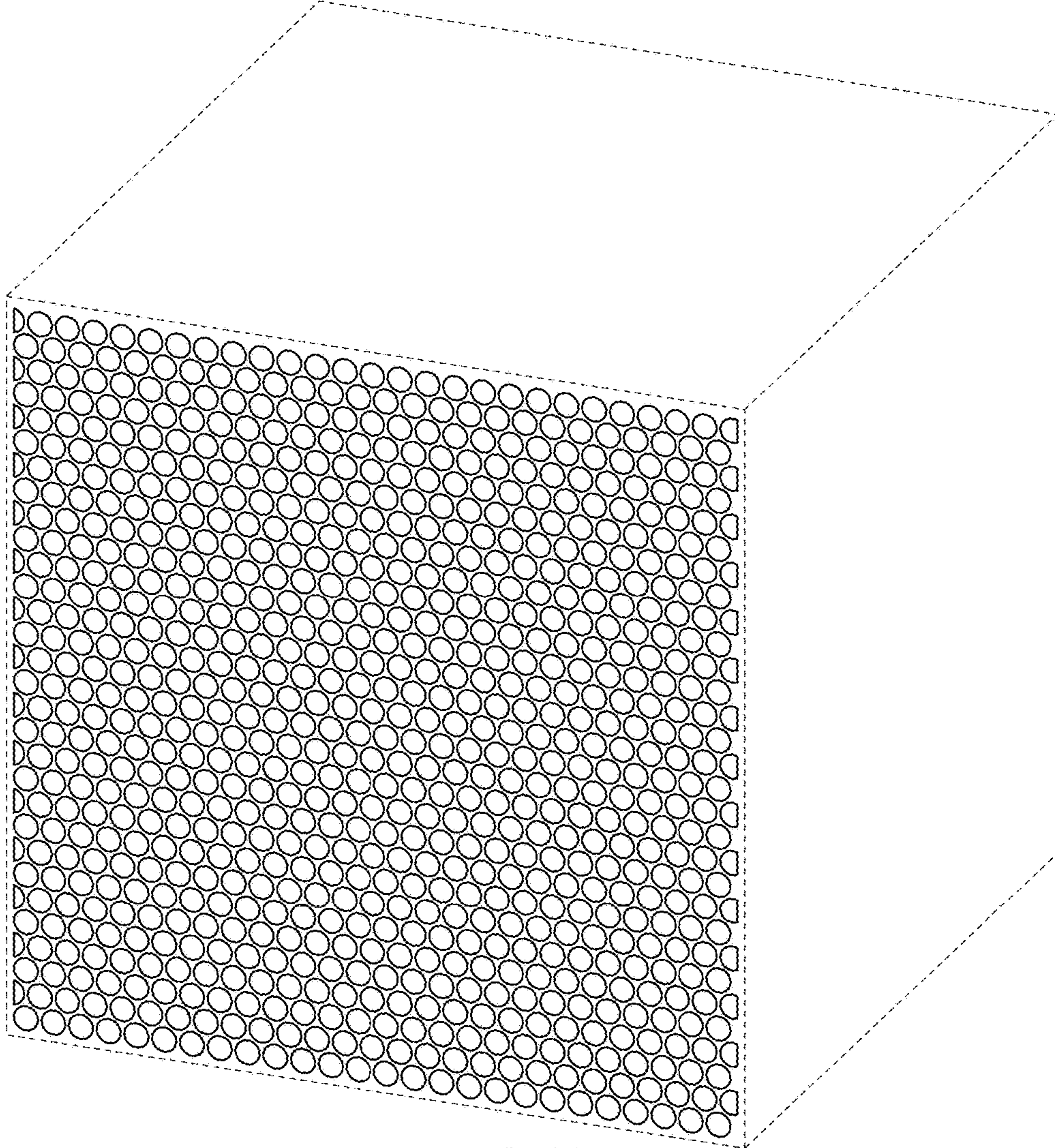


FIG. 14



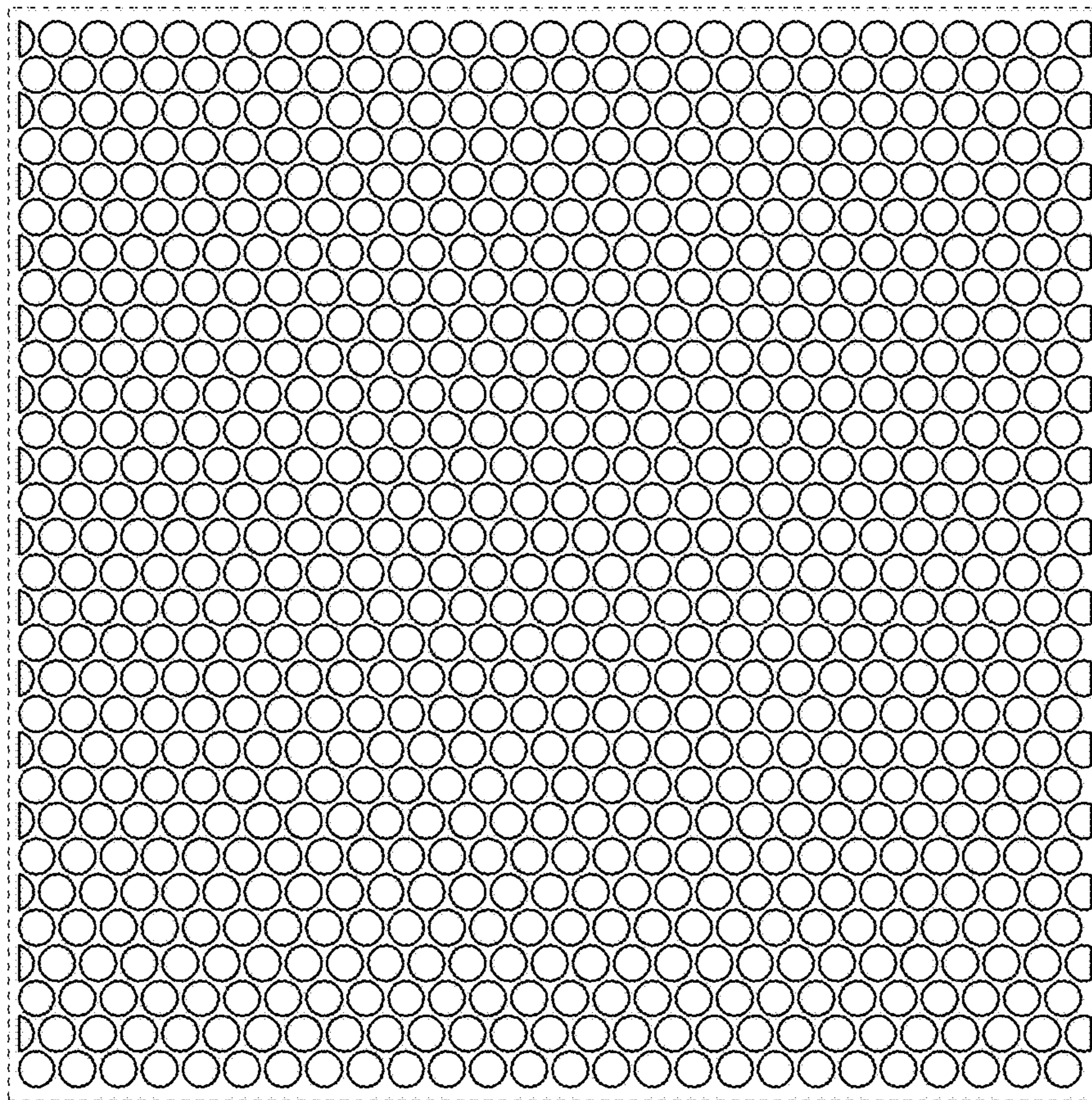
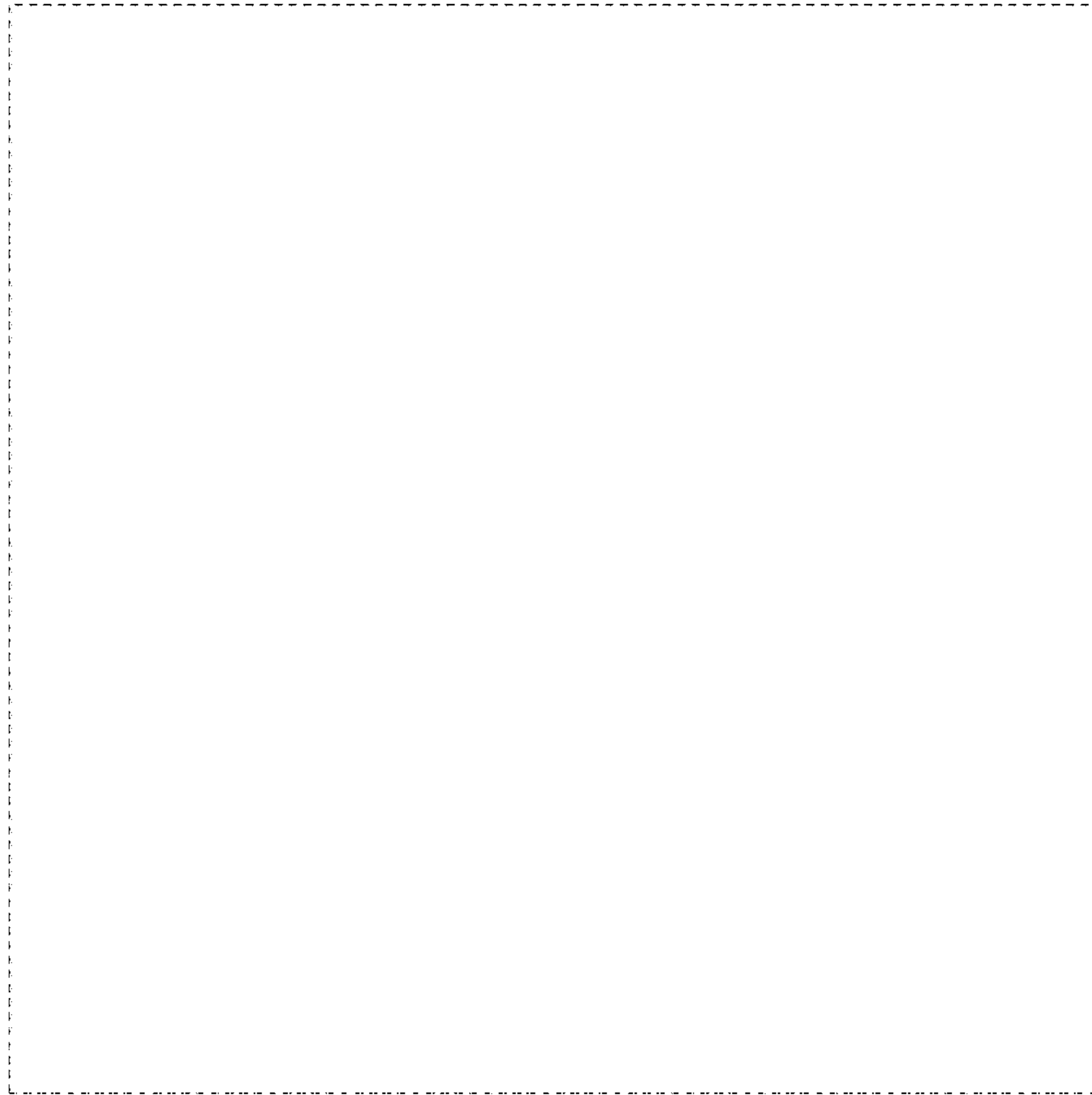


FIG. 15



**FIG. 16**