



US00D534264S

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

(10) **Patent No.:** **US D534,264 S**  
(45) **Date of Patent:** **\*\* Dec. 26, 2006**

(54) **PARTICULATE FILTER FOR DIESEL ENGINE**

FOREIGN PATENT DOCUMENTS

(75) Inventors: **Teruo Komori**, Gifu-ken (JP); **Sungtae Hong**, Gifu-ken (JP)

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(73) Assignee: **Ibiden Co., Ltd.**, Gifu (JP)

(Continued)

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

*Primary Examiner*—Robin Webster

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(21) Appl. No.: **29/237,584**

(57) **CLAIM**

(22) Filed: **Sep. 6, 2005**

The ornamental design for particulate filter for diesel engine, as shown and described.

**Related U.S. Application Data**

**DESCRIPTION**

(60) Continuation of application No. 29/218,101, filed on Nov. 29, 2004, which is a division of application No. 29/173,322, filed on Dec. 27, 2002, now Pat. No. Des. 505,194.

FIG. 1 is a front view of a particulate filter for diesel engine according to the present invention;

(30) **Foreign Application Priority Data**

Jun. 28, 2002	(JP)	2002-017495
Jun. 28, 2002	(JP)	2002-017496
Jun. 28, 2002	(JP)	2002-017497
Jun. 28, 2002	(JP)	2002-017498
Jun. 28, 2002	(JP)	2002-017499
Jun. 28, 2002	(JP)	2002-017500
Sep. 25, 2002	(JP)	2002-026179
Dec. 6, 2002	(JP)	2002-033889

FIG. 2 is a rear view showing the particulate filter of FIG. 1;

(51) **LOC (8) Cl.** ..... **23-04**

(52) **U.S. Cl.** ..... **D23/365; D15/5**

(58) **Field of Classification Search** ..... D23/365,  
D23/364; D15/5; 55/385.3, 523; D5/1, 47,  
D5/5

FIG. 3 is a top plan view showing the particulate filter of FIG. 1, the bottom plan view being a mirror image of the top plan view;

FIG. 4 is a right side view showing the particulate filter of FIG. 1, the left side view being a mirror image of the right side view;

FIG. 5 is an enlarged view of FIG. 4;

FIG. 6 is a cross-sectional view taken along line 6—6 of FIG. 1;

FIG. 7 is an enlarged cross-sectional view taken along line 7—7 of FIG. 1;

FIG. 8 is an enlarged cross-sectional view taken along line 8—8 of FIG. 1;

FIG. 9 is an enlarged cross-sectional view taken along line 9—9 of FIG. 1;

FIG. 10 is an enlarged view showing the top right quarter of FIG. 4;

FIG. 11 is an enlarged view showing the top right quarter of FIG. 7;

FIG. 12 is an enlarged view showing the top right quarter of FIG. 8; and,

FIG. 13 is an enlarged view showing the top right quarter of FIG. 9.

See application file for complete search history.

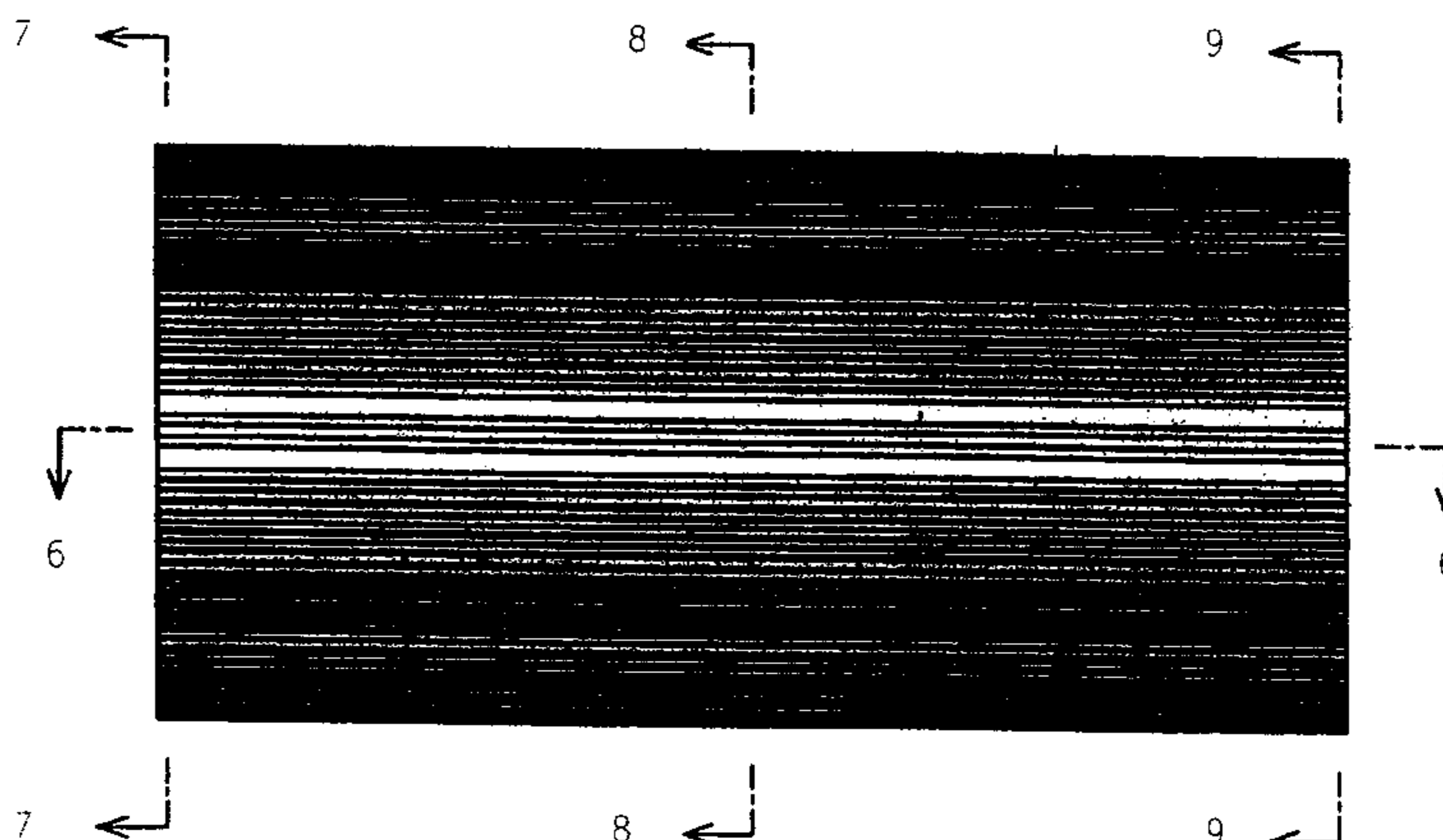
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**1 Claim, 7 Drawing Sheets**



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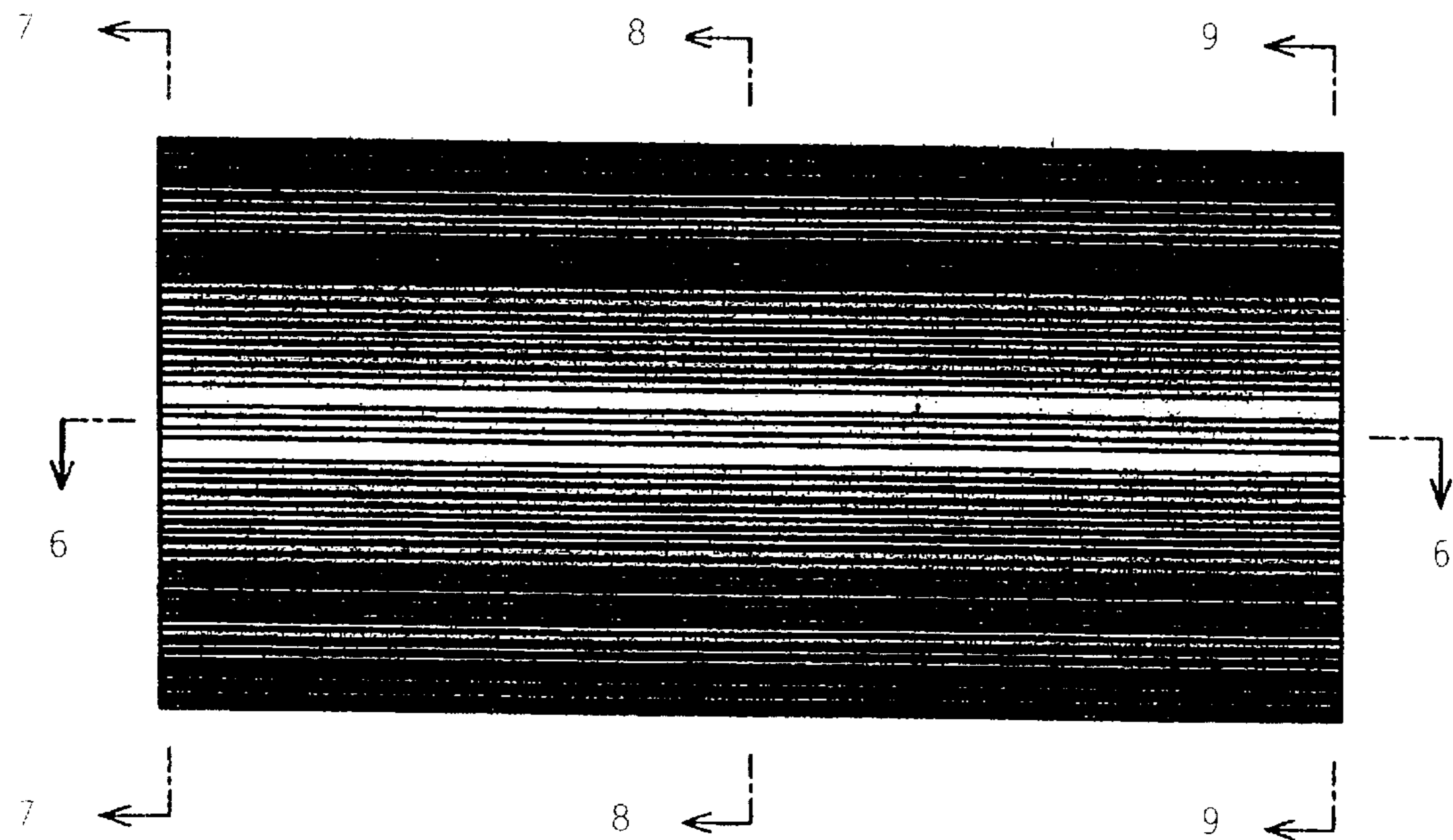
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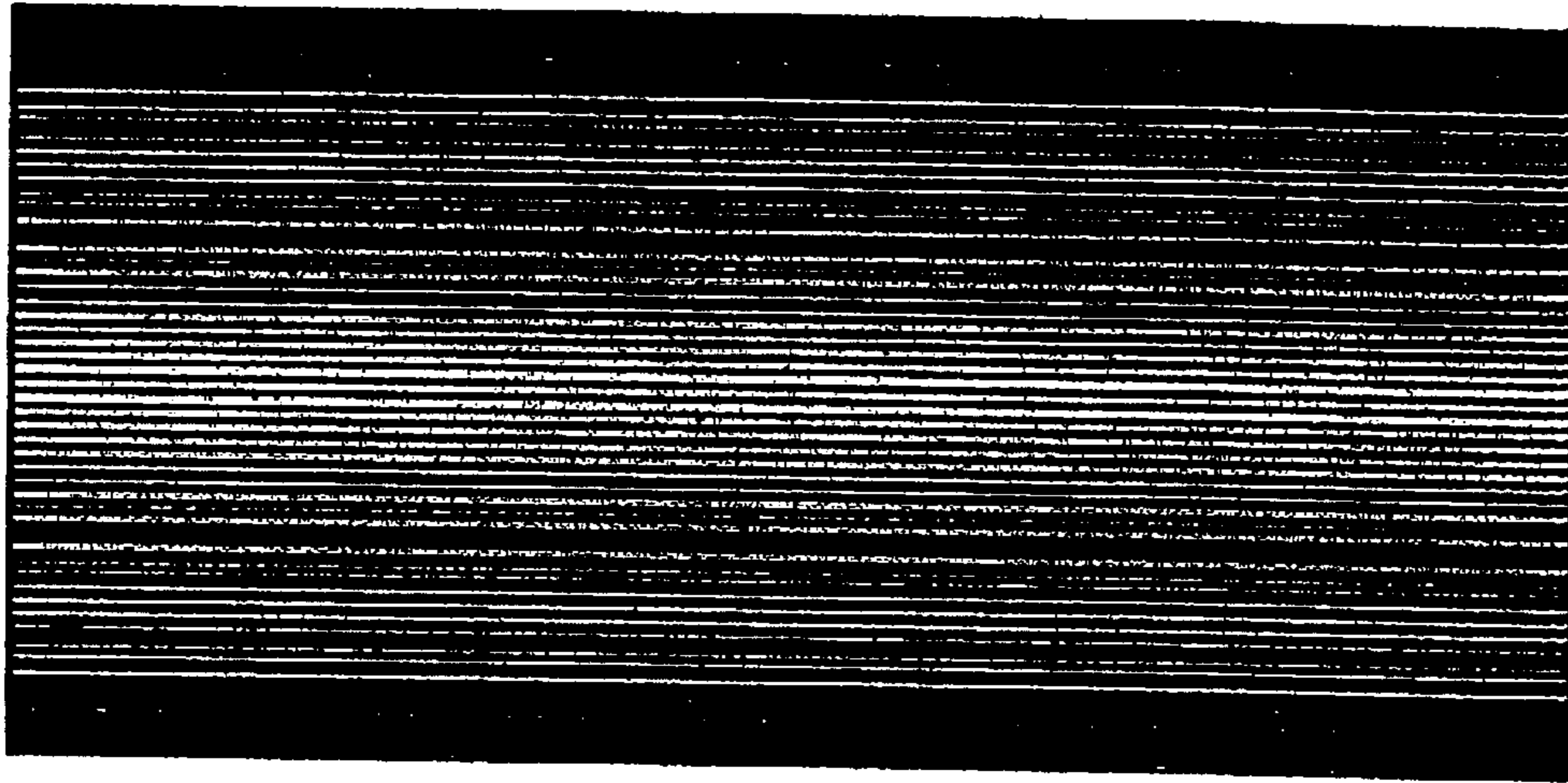
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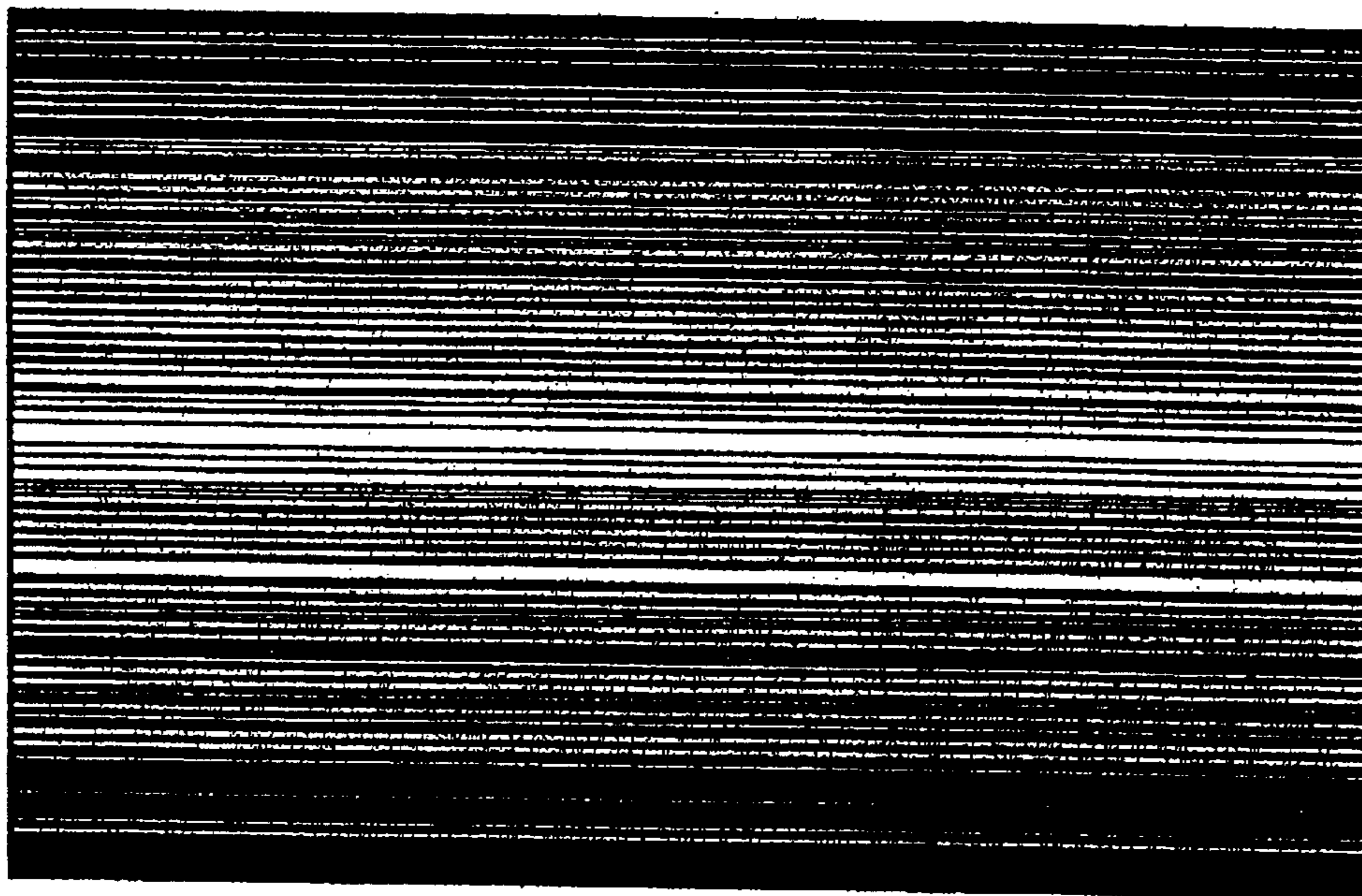
**Fig. 1**



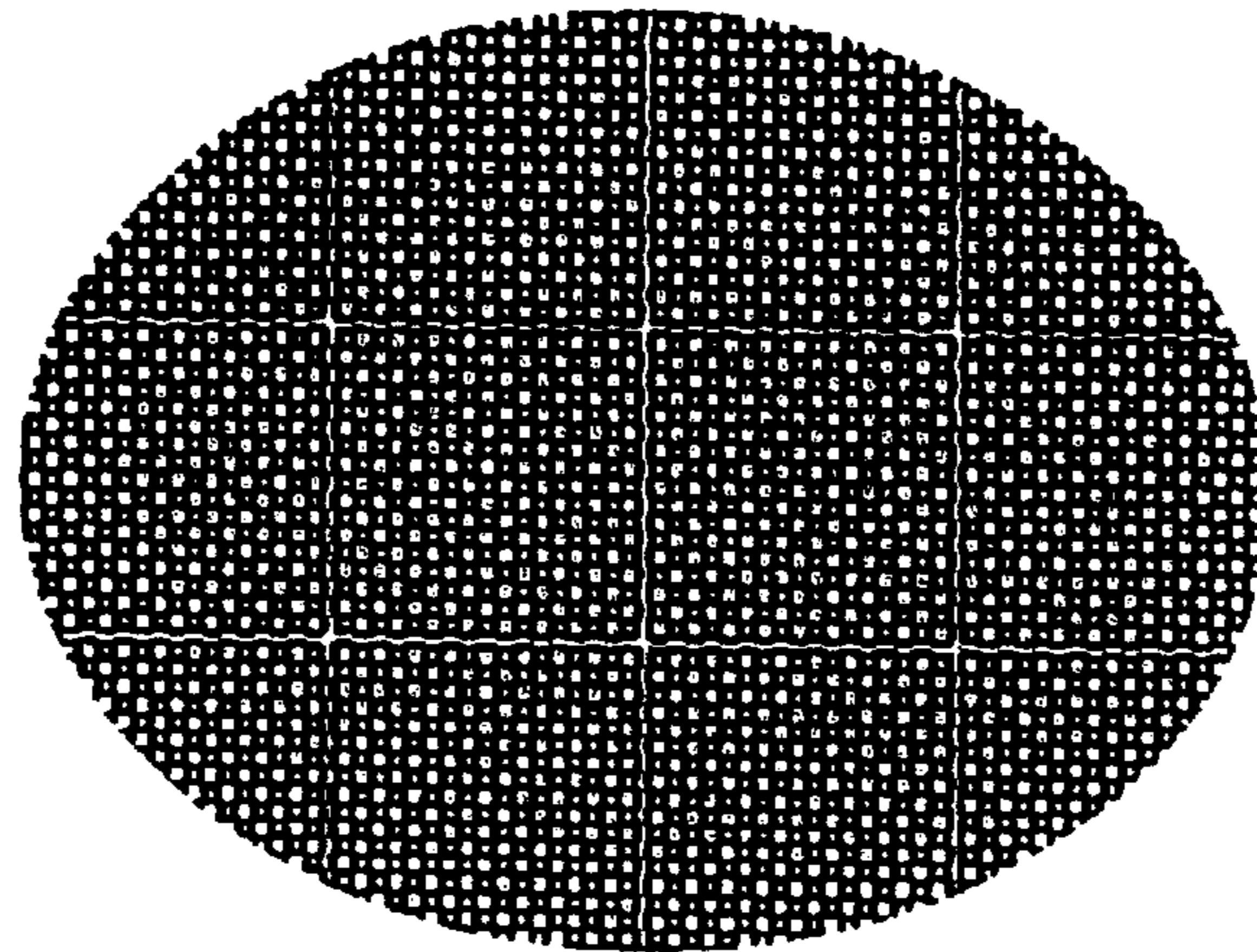
**Fig. 2**



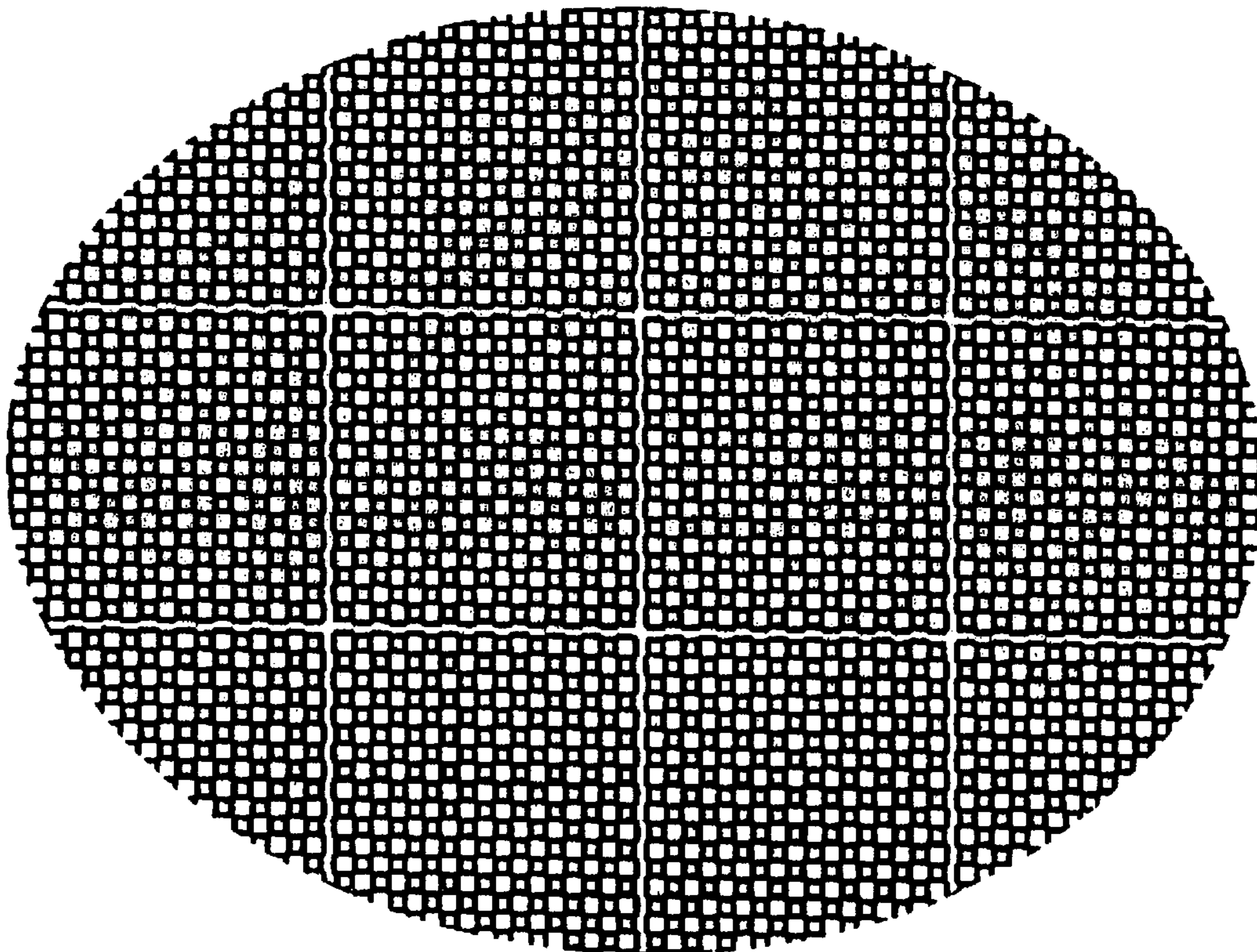
**Fig. 3**



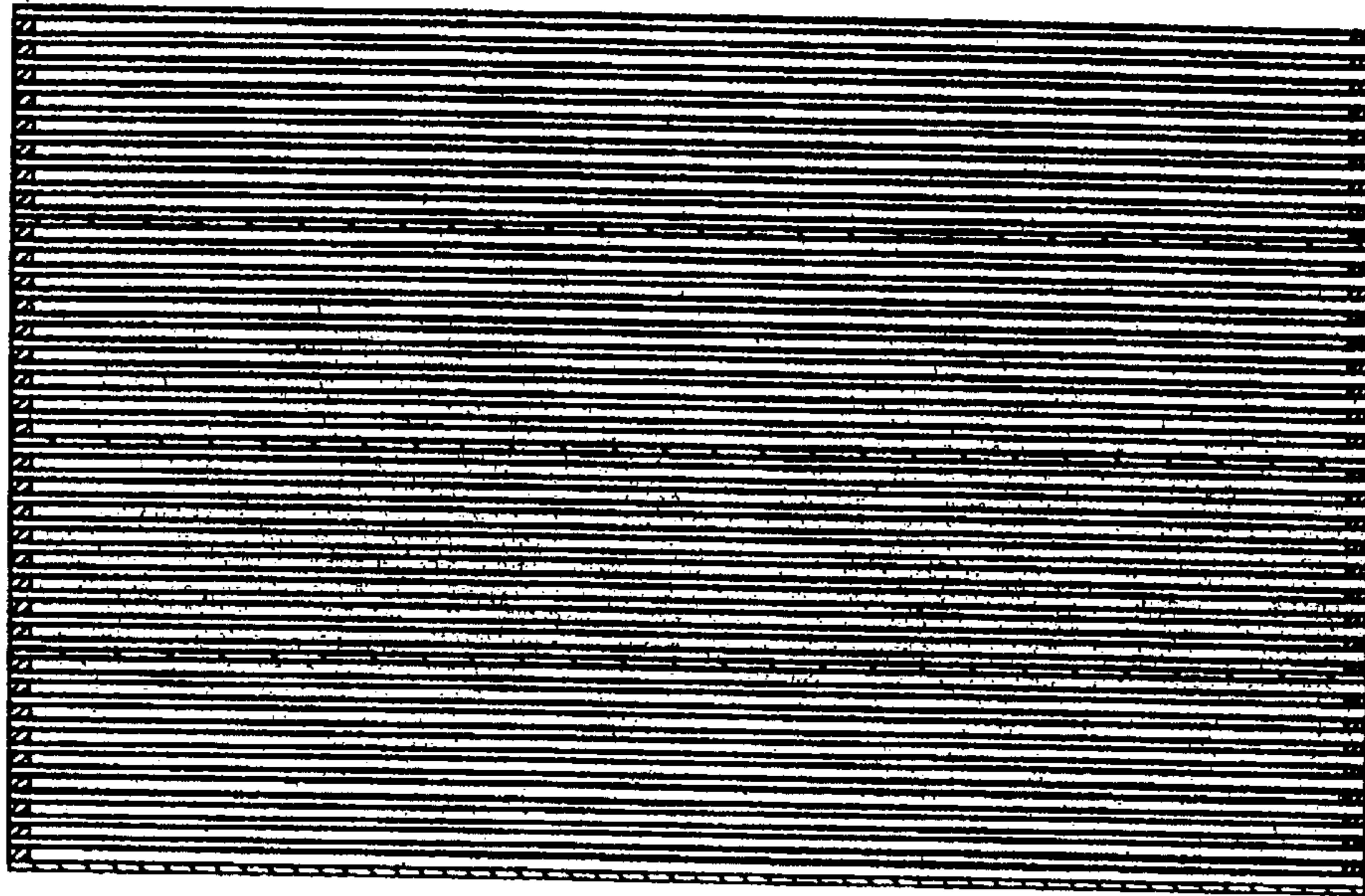
**Fig. 4**



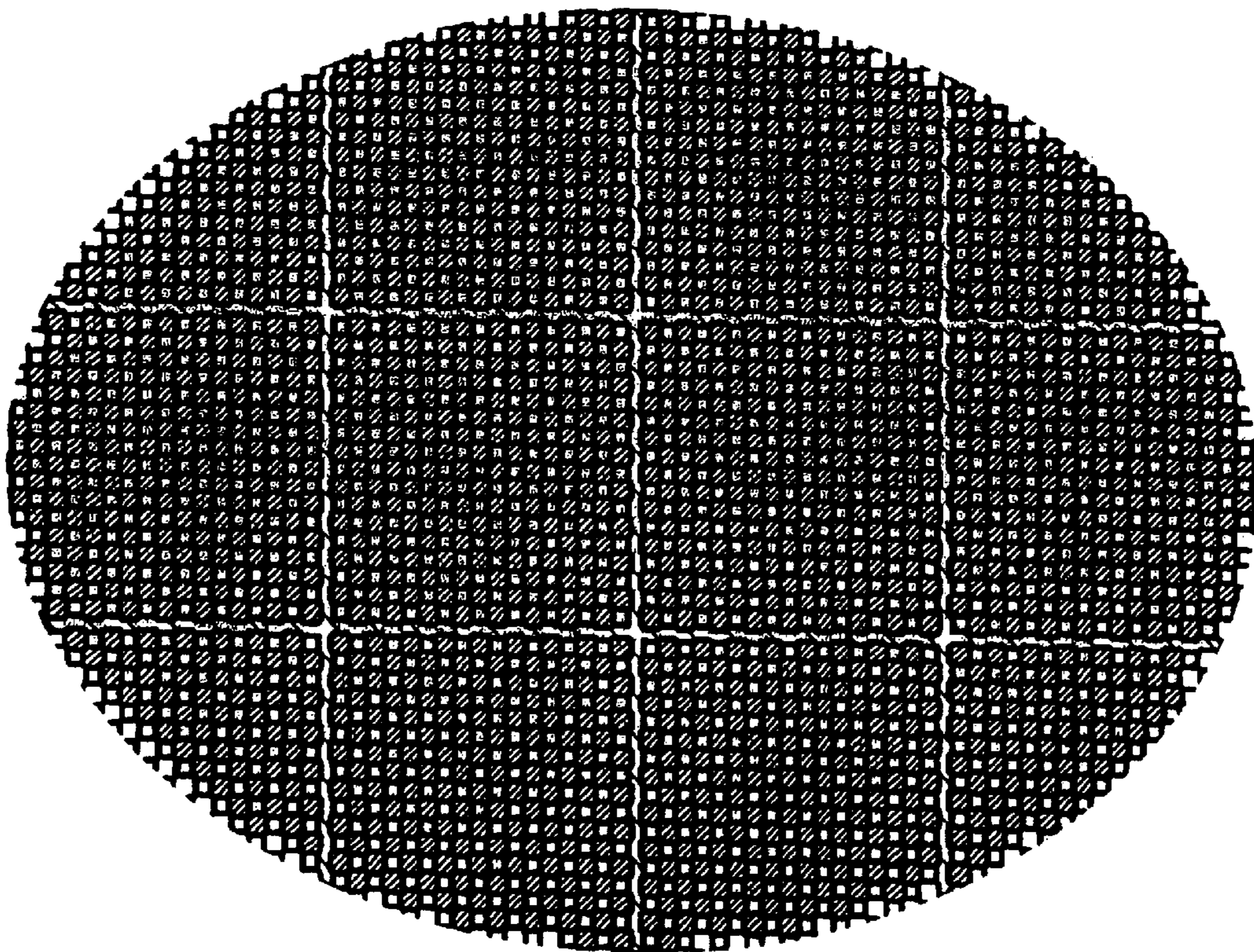
**Fig. 5**



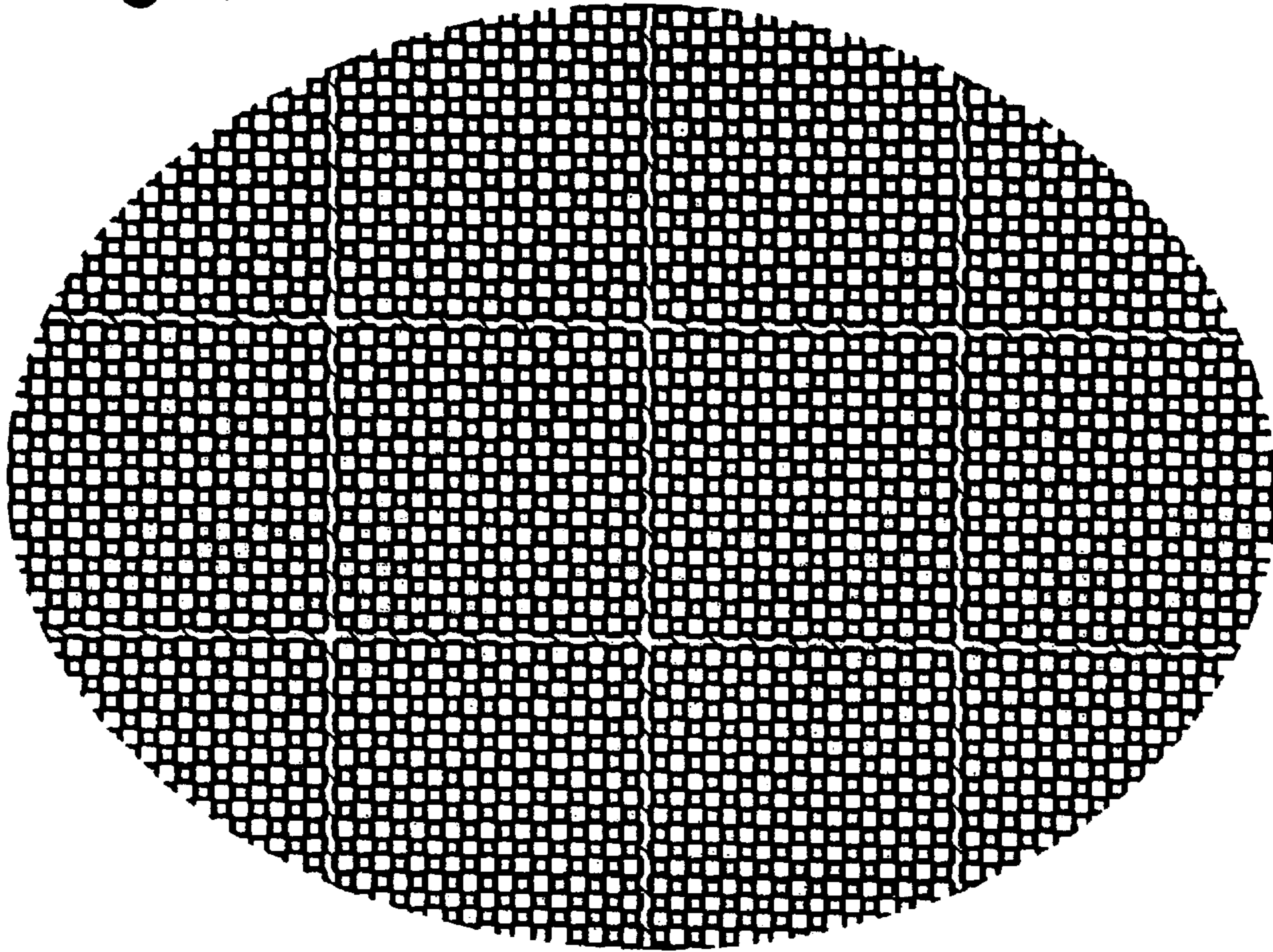
**Fig. 6**



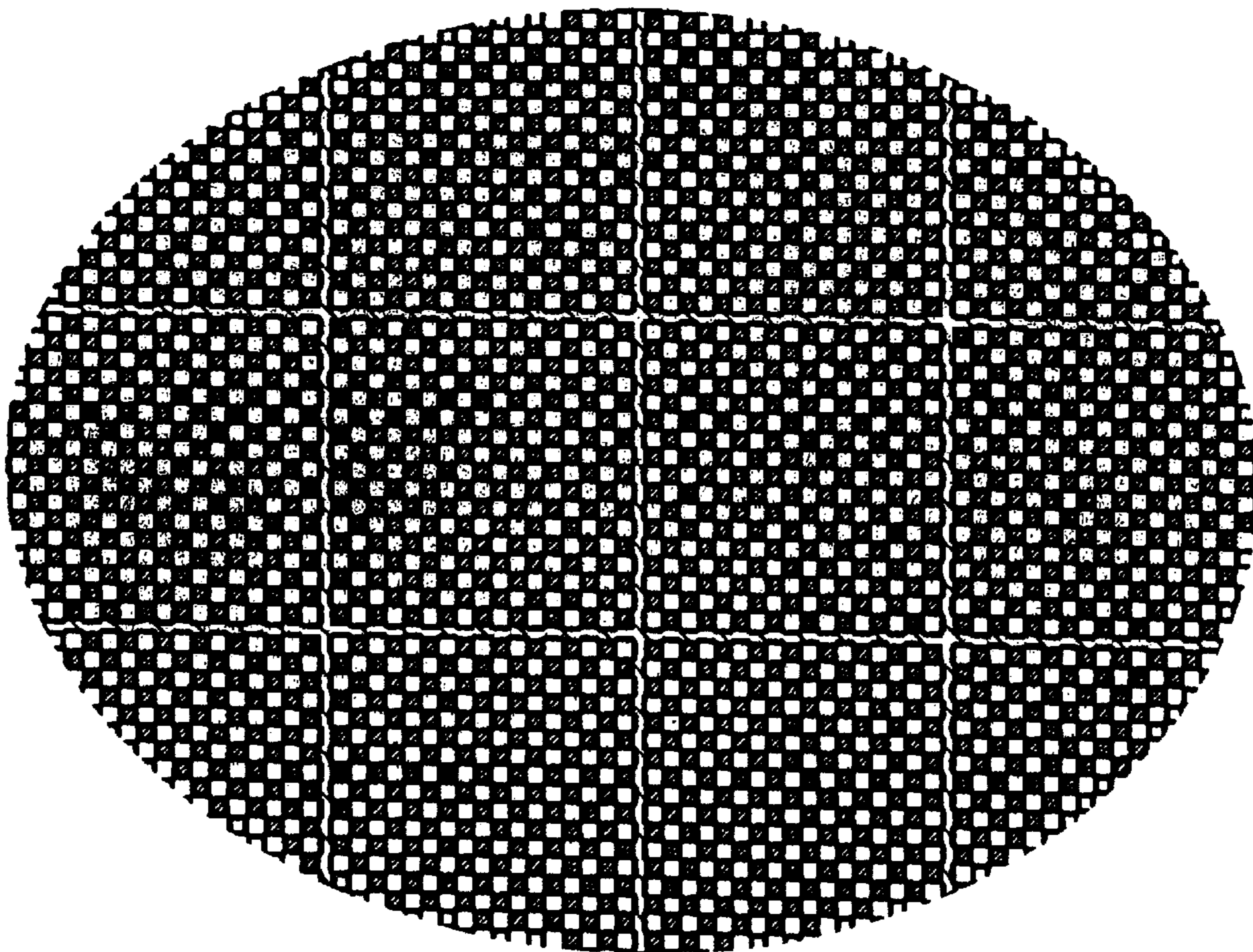
**Fig. 7**



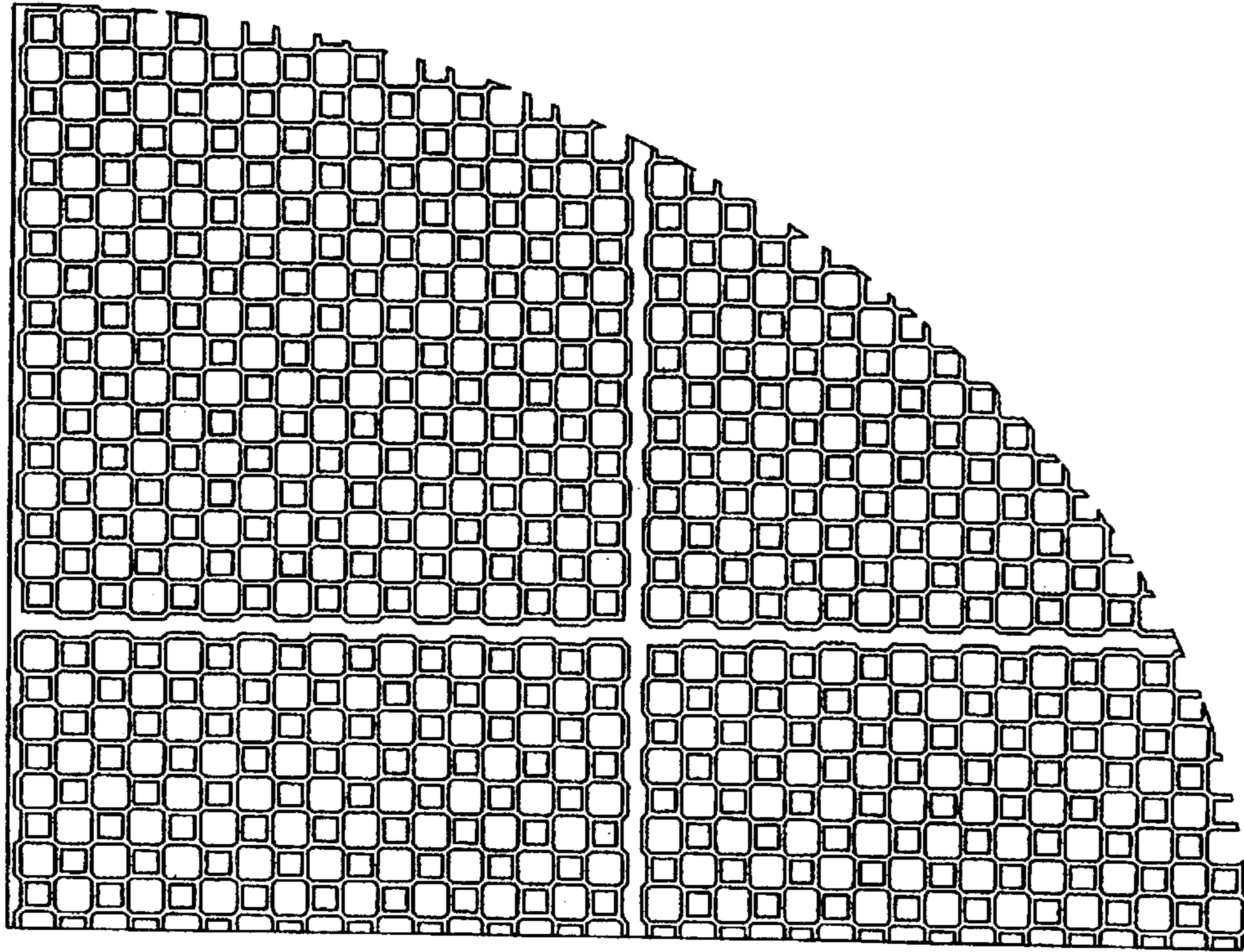
**Fig. 8**



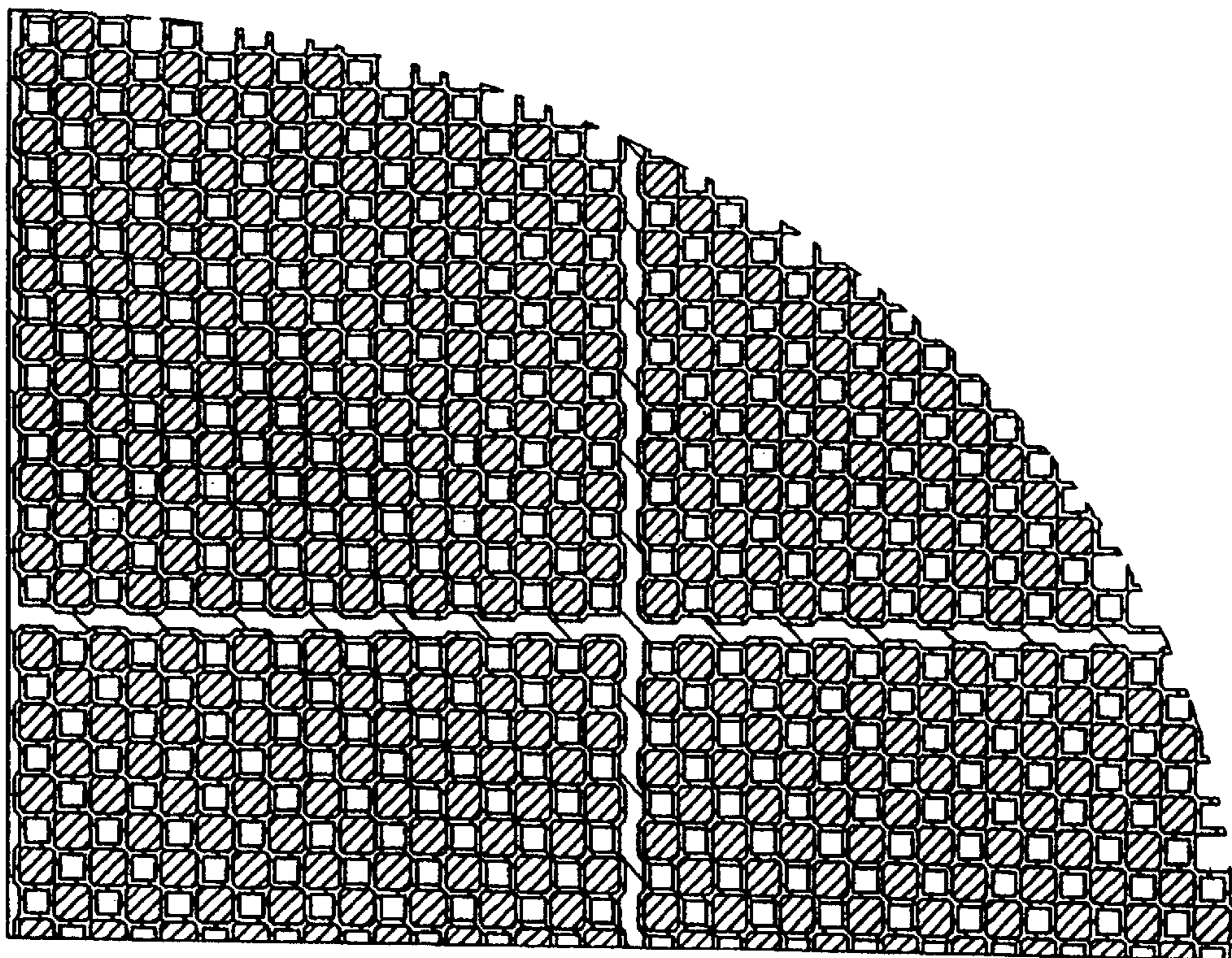
**Fig. 9**



**Fig.10**

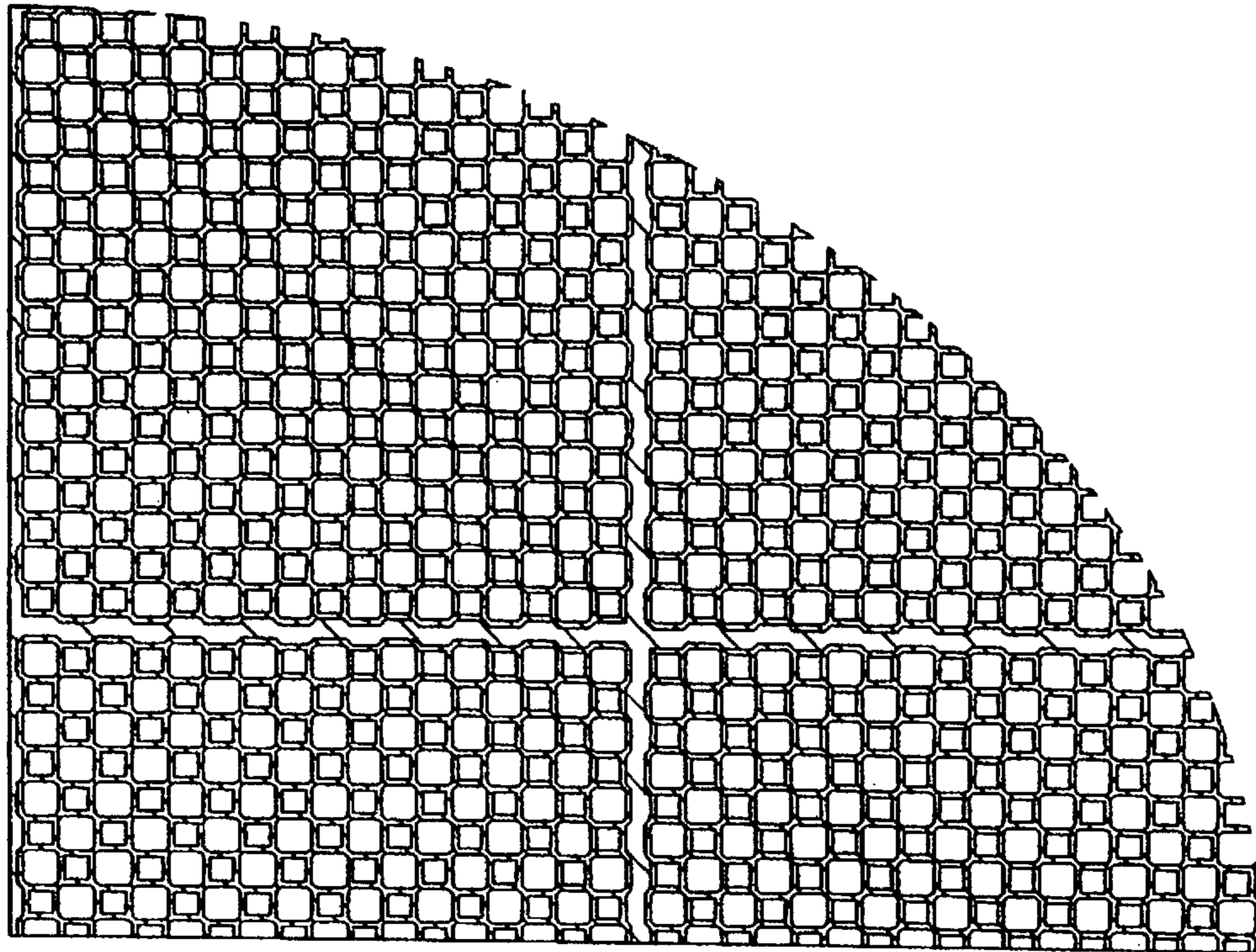


**Fig.11**

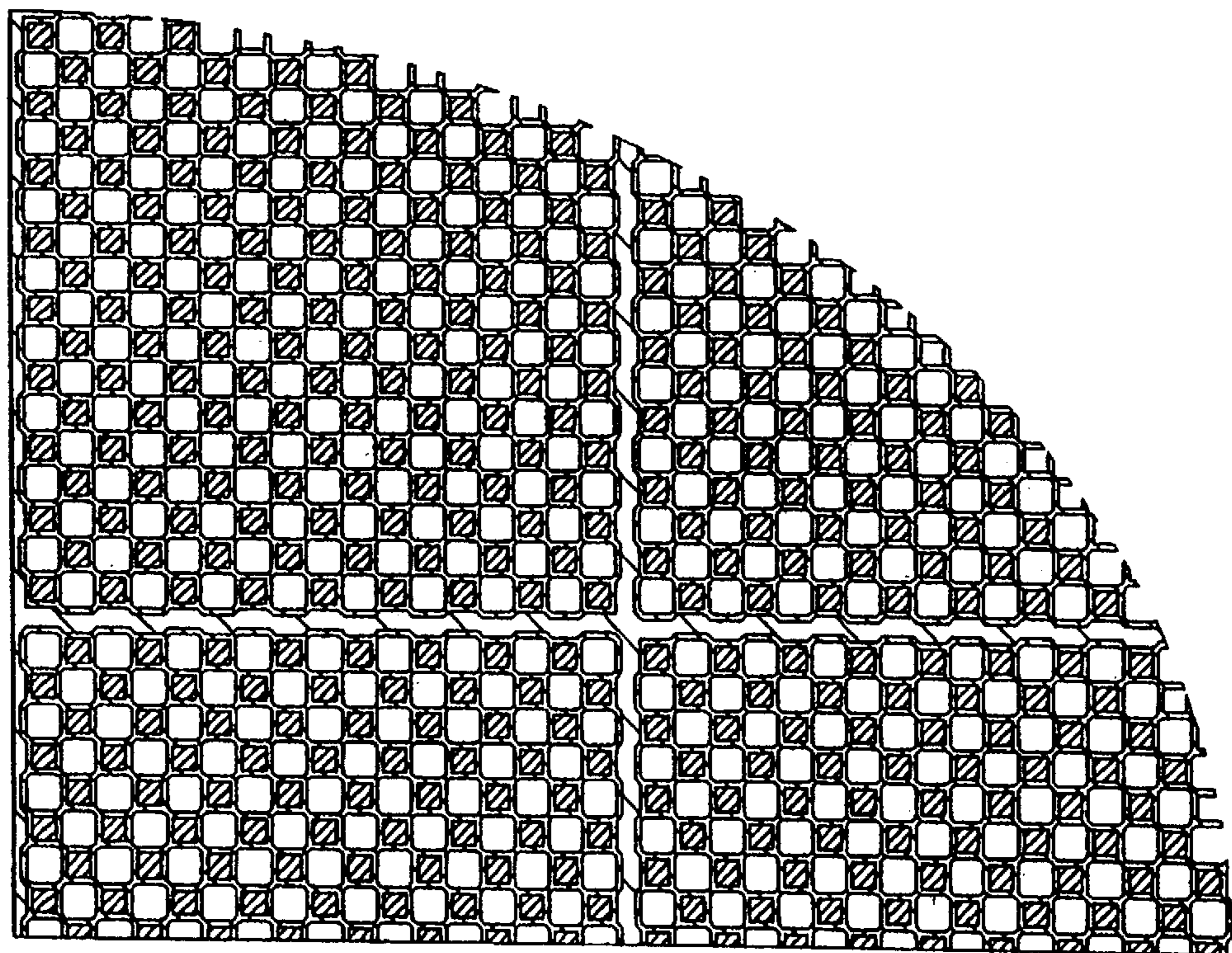




**Fig. 12**



**Fig. 13**



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : Des. 534,264 S  
APPLICATION NO. : 29/237584  
DATED : December 26, 2006  
INVENTOR(S) : Teruo Komori and Sungtae Hong

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page #56

Under "Foreign Patent Documents" on page 2, insert the following at the end of the list:

WO WO 03/020407 03/2003

Signed and Sealed this

Twenty-seventh Day of March, 2007

A handwritten signature in black ink on a light gray dotted background. The signature reads "Jon W. Dudas" in a cursive style.

JON W. DUDAS

*Director of the United States Patent and Trademark Office*