US00D894361S

(12) **United States Design Patent** (10) **Patent No.: US D894,361 S**
Aoki (45) **Date of Patent: ** Aug. 25, 2020**

(54) **CATALYST CARRIER FOR EXHAUST GAS PURIFICATION**

(71) Applicant: **NGK Insulators, Ltd.**, Nagoya-Shi (JP)

(72) Inventor: **Yoichi Aoki**, Nagoya (JP)

(73) Assignee: **NGK Insulators, Ltd.**, Nagoya-Shi (JP)

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

(21) Appl. No.: **29/651,490**

(22) Filed: **Aug. 17, 2018**

(30) **Foreign Application Priority Data**

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Feb. 20, 2018 (JP) 2018-003397

(51) **LOC (12) Cl.** **23-04**

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

(58) **Field of Classification Search**
USPC D23/365, 363; D15/5
(Continued)

(56) **References Cited**

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Primary Examiner — T Chase Nelson
Assistant Examiner — Ania Aman
(74) *Attorney, Agent, or Firm* — Burr & Brown, PLLC

(57) **CLAIM**

The ornamental design for a catalyst carrier for exhaust gas purification, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a first embodiment of a catalyst carrier for exhaust gas purification illustrating my new design;

FIG. **2** is a front view thereof, the rear view thereof being a right-and-left reversed image;

FIG. **3** is a top view thereof, the bottom view thereof being a mirror image;

FIG. **4** is a right view thereof, the left view thereof being a mirror image;

FIG. **5** is an enlarged view delimited by the lines labelled **5** in FIG. **2**;

FIG. **6** is an enlarged view delimited by the lines labelled **6** in FIG. **5**;

FIG. **7** is a middle omitted cross-sectional view taken through line **7-7** of FIG. **6**;

FIG. **8** is a middle omitted cross-sectional view taken through line **8-8** of FIG. **6**;

FIG. **9** is a perspective view of a second embodiment of a catalyst carrier for exhaust gas purification illustrating my new design;

FIG. **10** is a front view thereof, the rear view thereof being a right-and-left reversed image;

FIG. **11** is a top view thereof, the bottom view thereof being a mirror image;

FIG. **12** is a right view thereof, the left view thereof being a mirror image;

FIG. **13** is an enlarged view delimited by the lines labelled **13** in FIG. **10**;

FIG. **14** is an enlarged view delimited by the lines labelled **14** in FIG. **13**;

FIG. **15** is a middle omitted cross-sectional view taken through line **15-15** of FIG. **14**; and,

FIG. **16** is a middle omitted cross-sectional view taken through line **16-16** of FIG. **14**.

The catalyst carrier is used for removing toxic substances contained in exhaust fumes emitted from automobile engines and the like. The catalyst carrier has fins in each of its cells. The fin is provided in the same sectional shape over the whole length of the cells.

In the drawings, the broken lines depict portions of the catalyst carrier for exhaust gas purification and form no part of the claimed design.

The dot-dash broken lines in the drawings depict a boundary between the claimed design and the unclaimed subject matter and form no part of the claimed design.

The catalyst carrier for exhaust gas purification is shown with a symbolic break in its length in the cross-sectional

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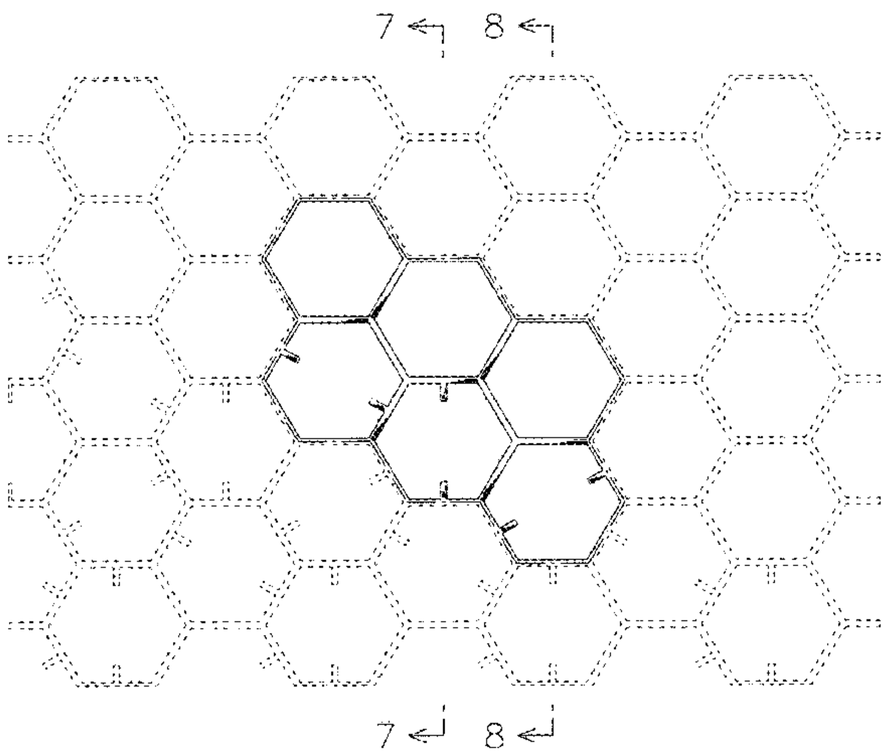

views. The appearance of any portion of the article between the break lines forms no part of the claimed design.

1 Claim, 16 Drawing Sheets

(58) **Field of Classification Search**
CPC F01N 3/035; F01N 3/022; F01N 2330/34; F01N 2330/48; 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

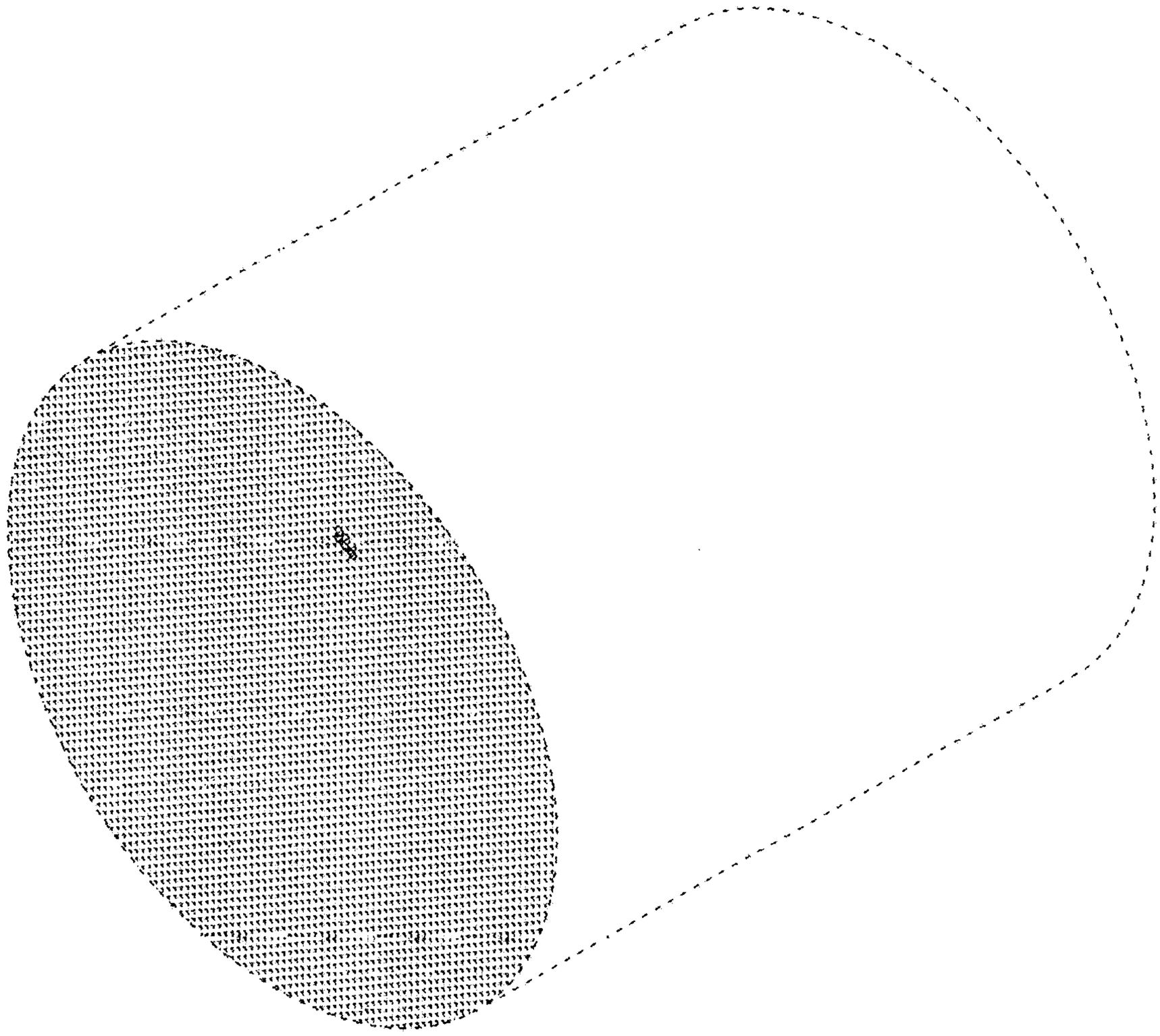

Fig. 2

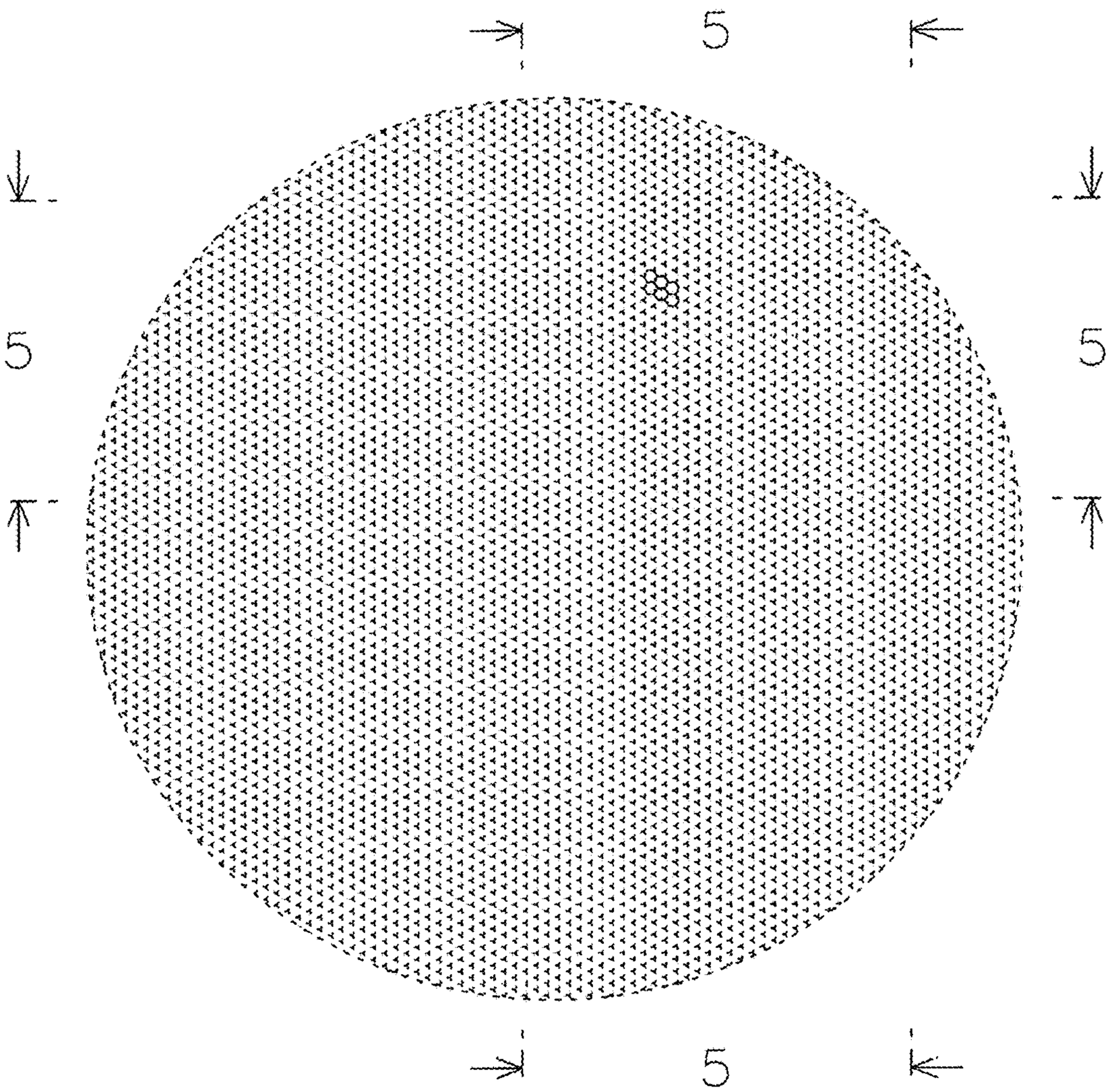

Fig.3

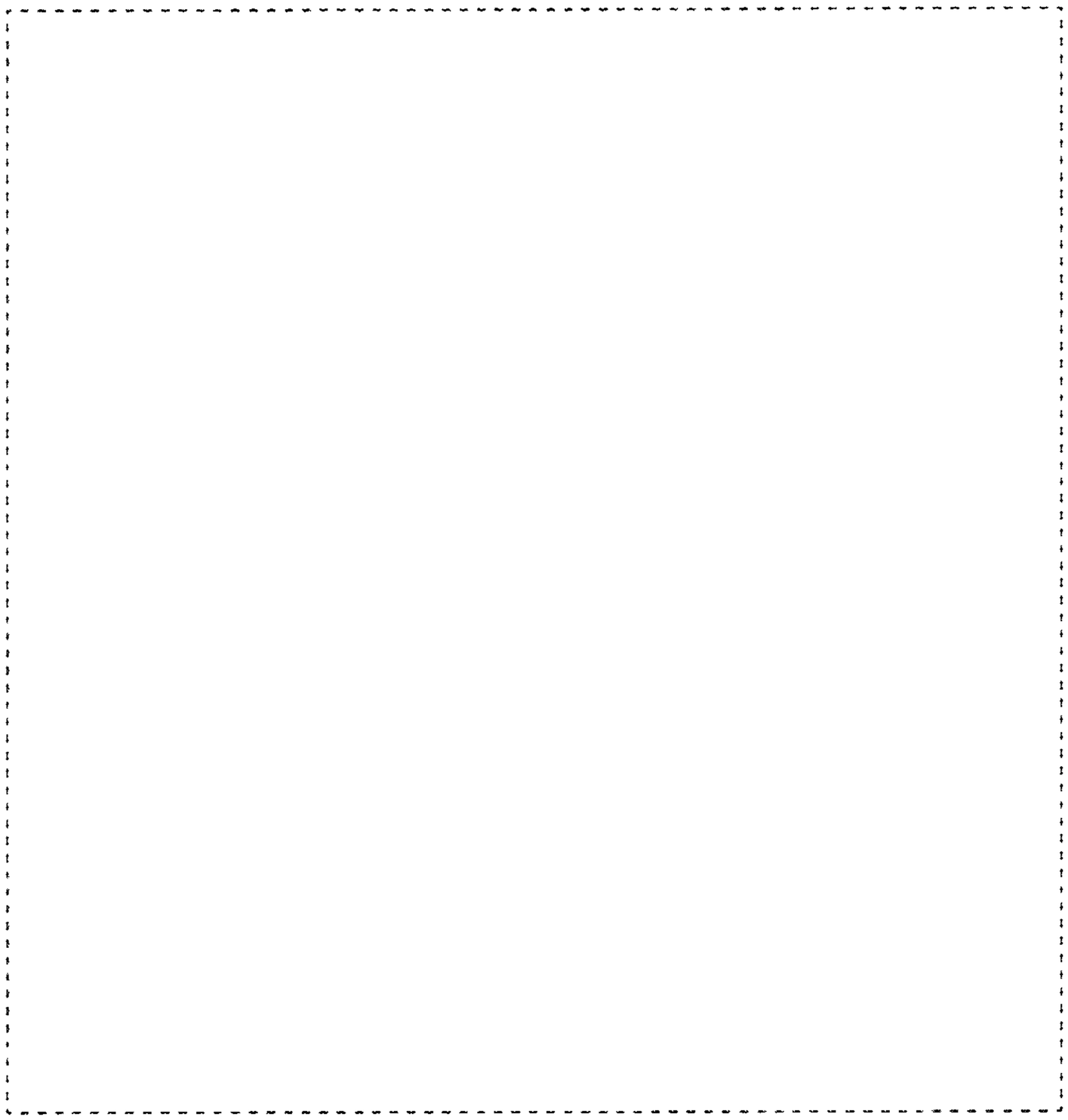

Fig. 4

Fig.5

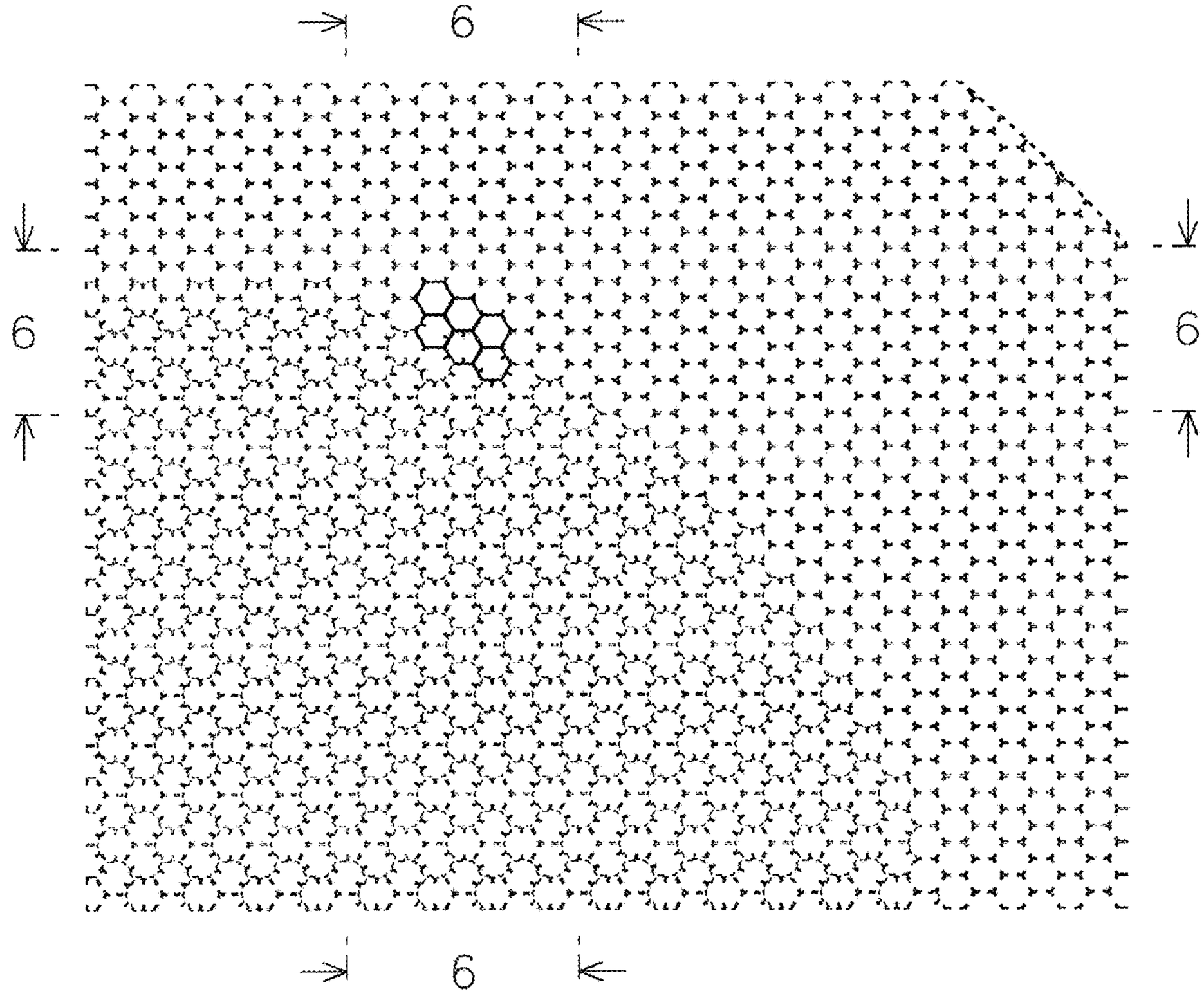

Fig.6

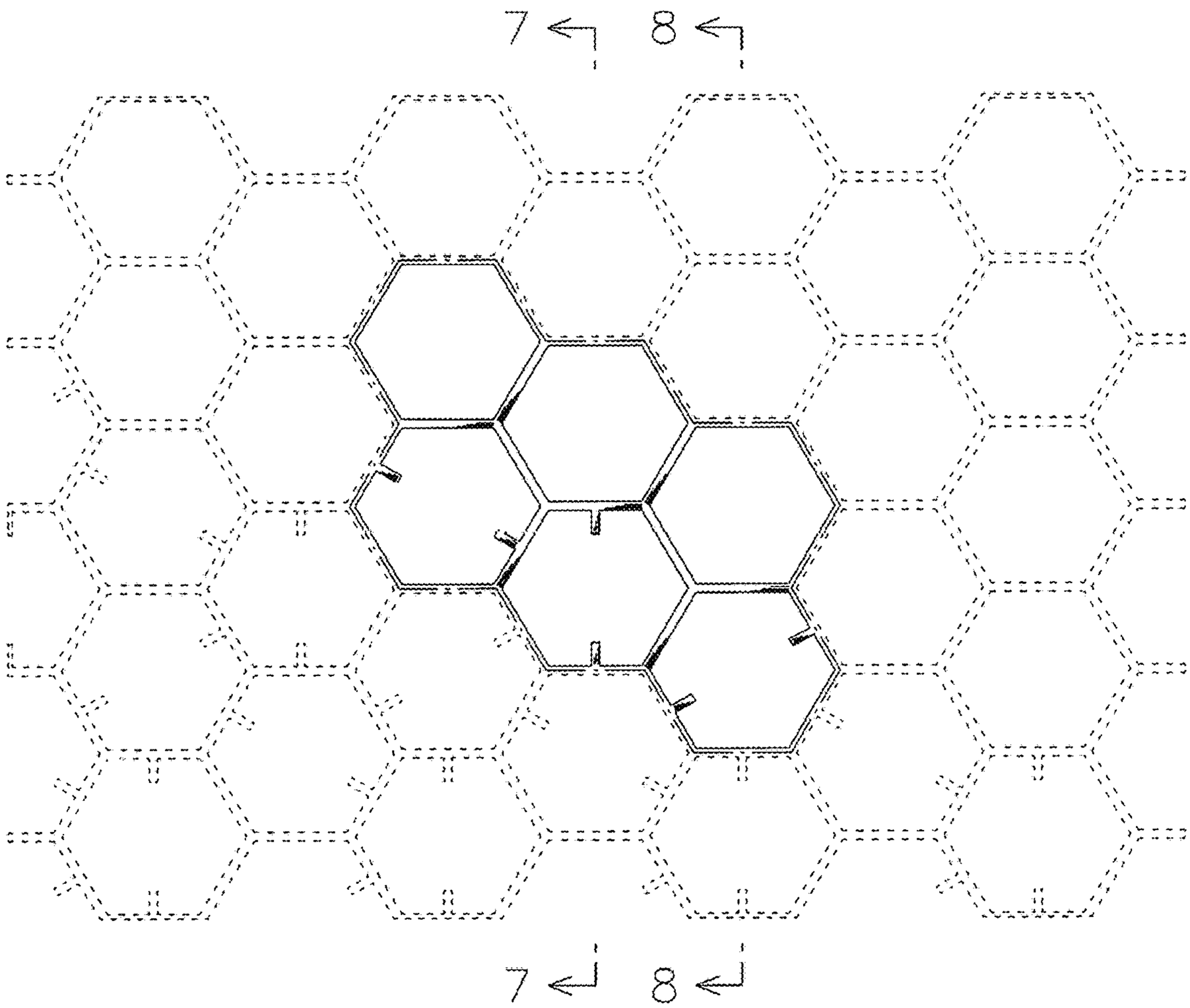

Fig. 7

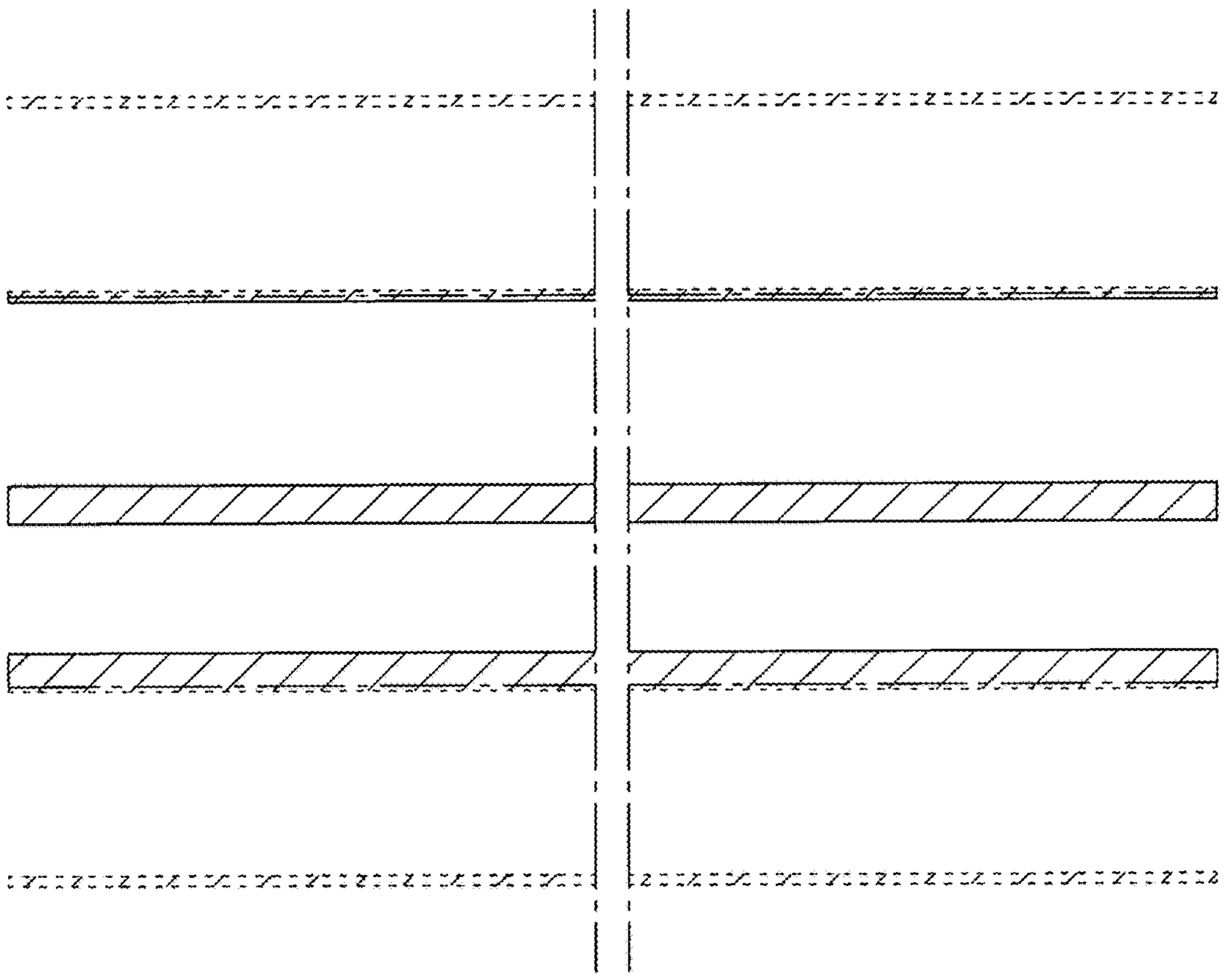

Fig.8

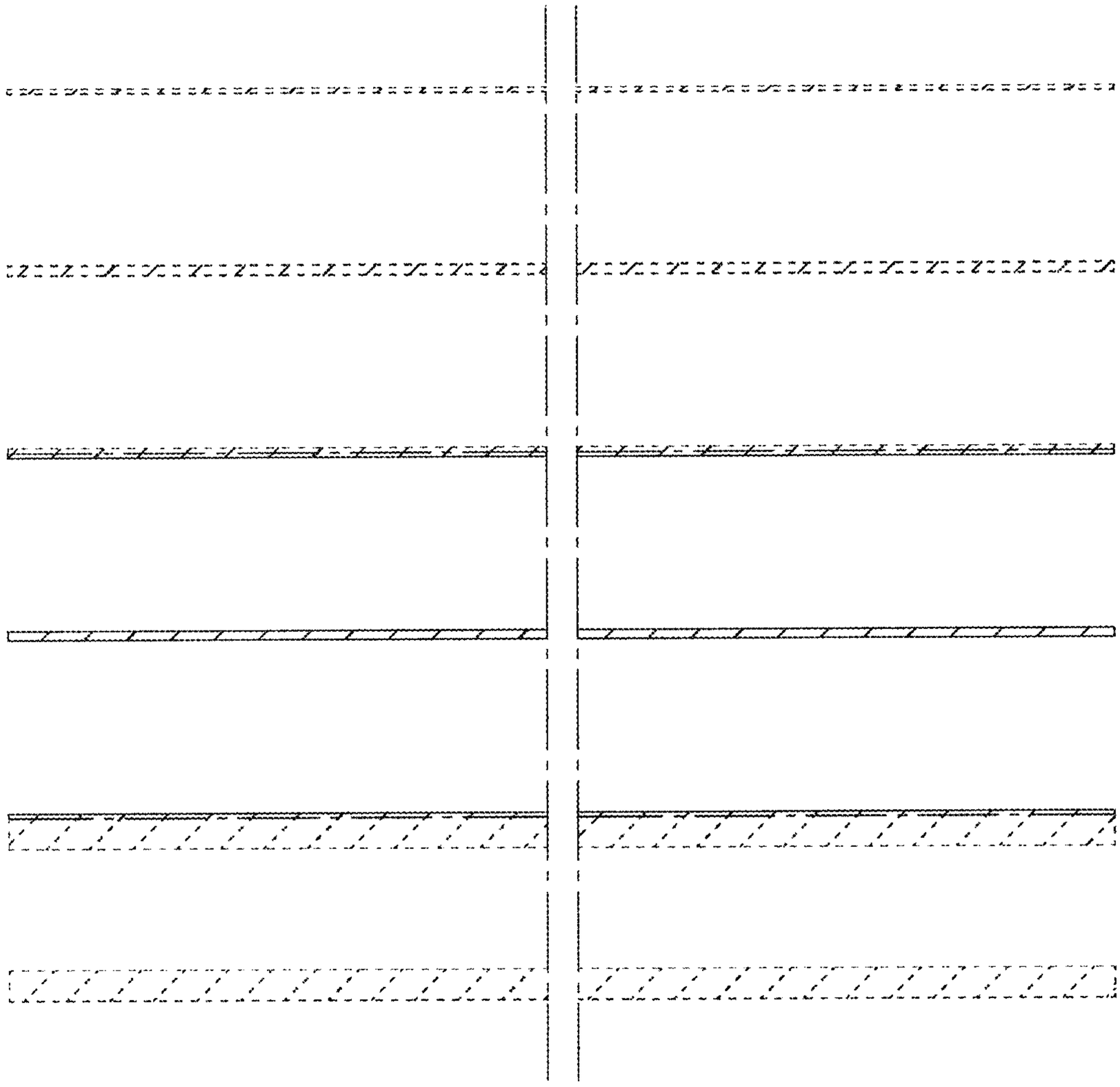

Fig.9

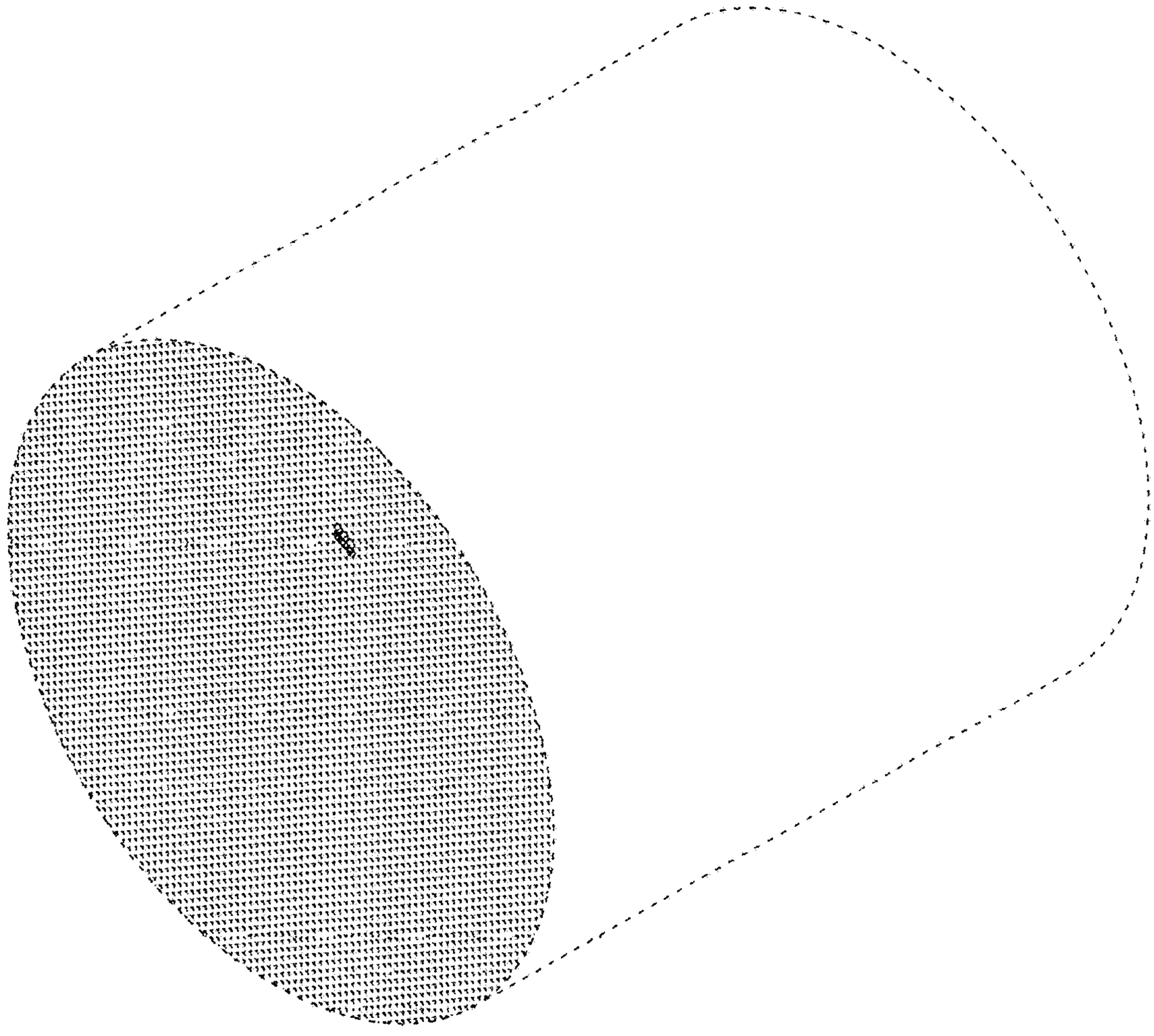

Fig.10

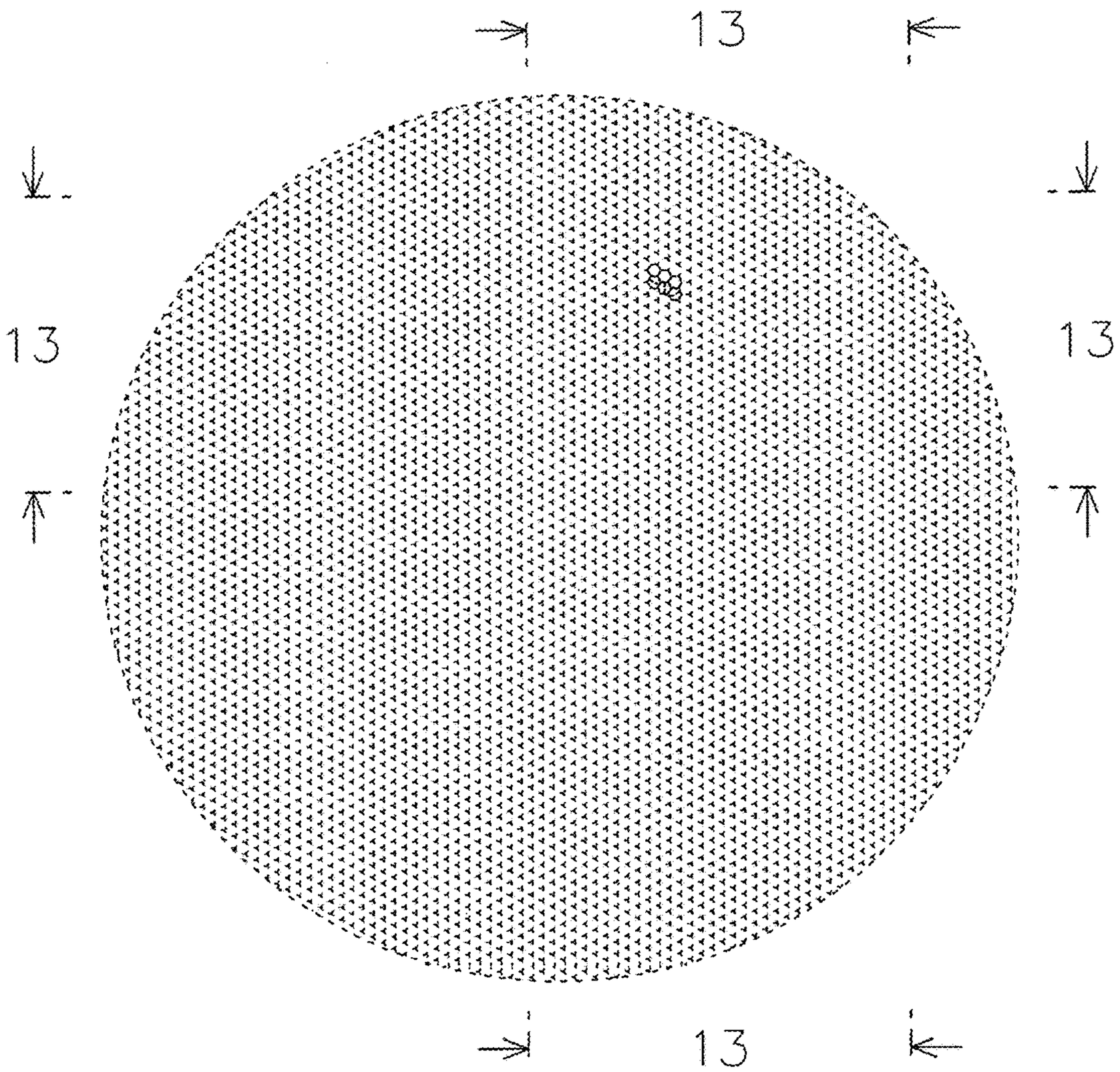

Fig.11

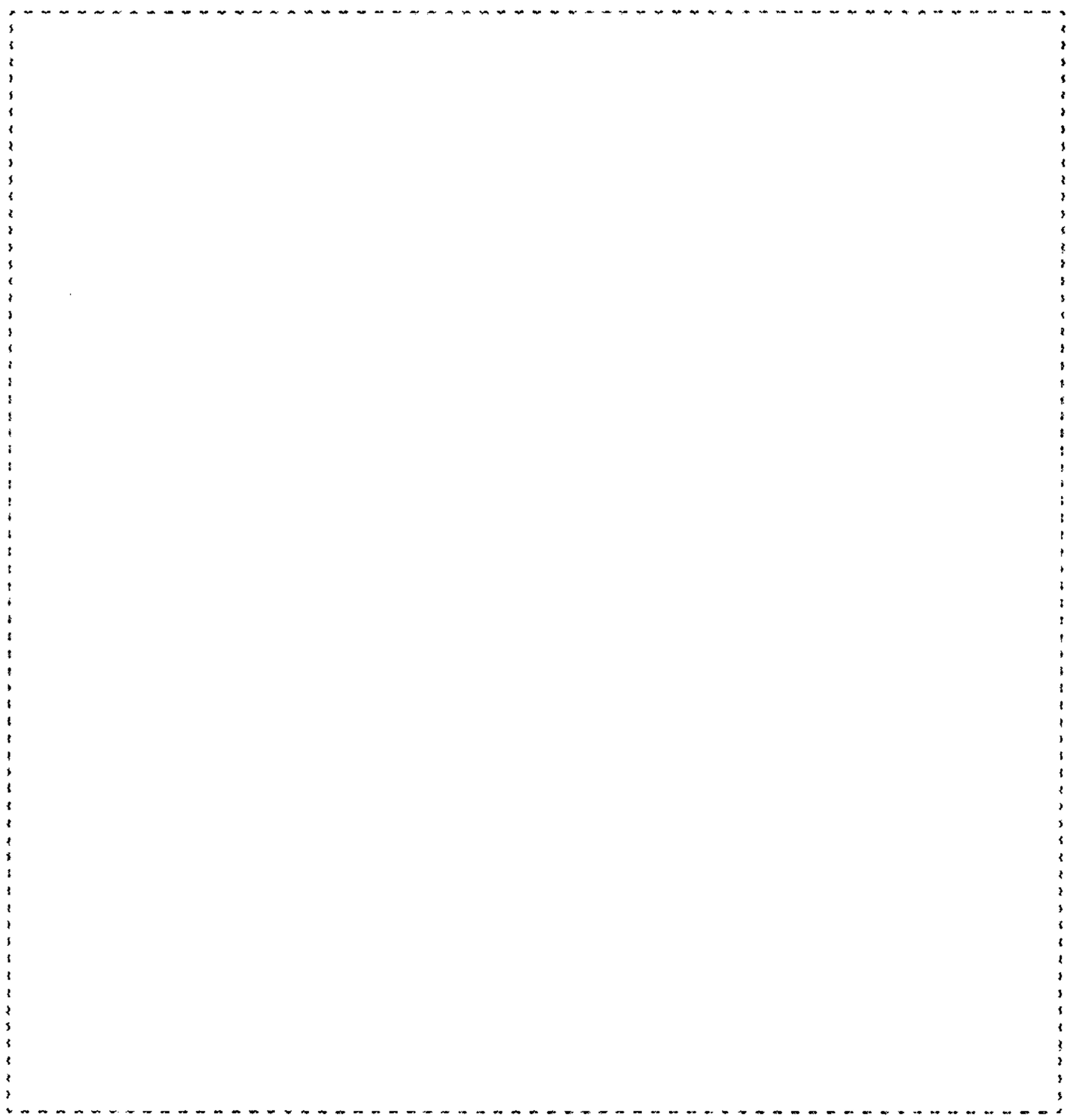

Fig.12

Fig.13

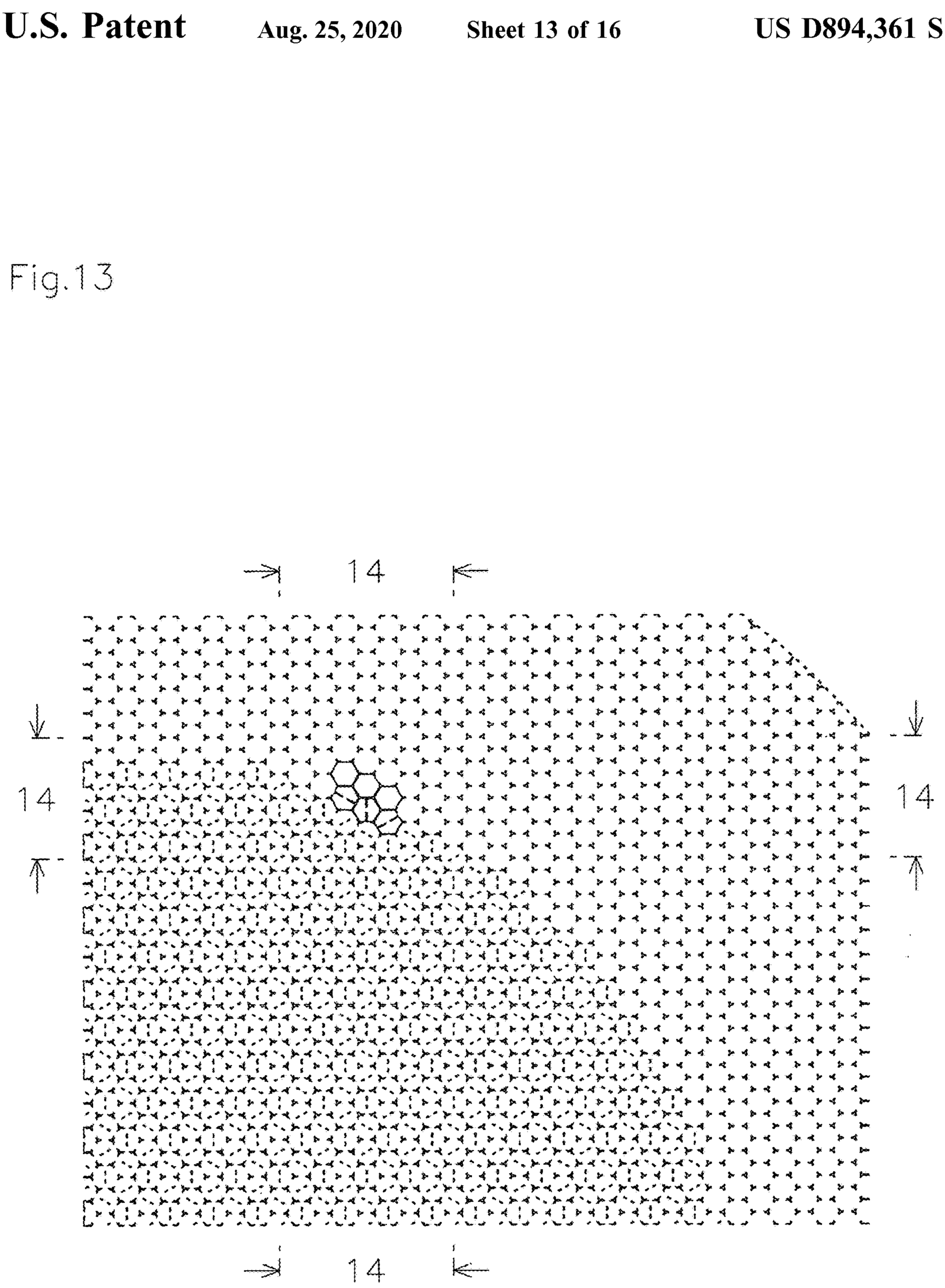

Fig.14

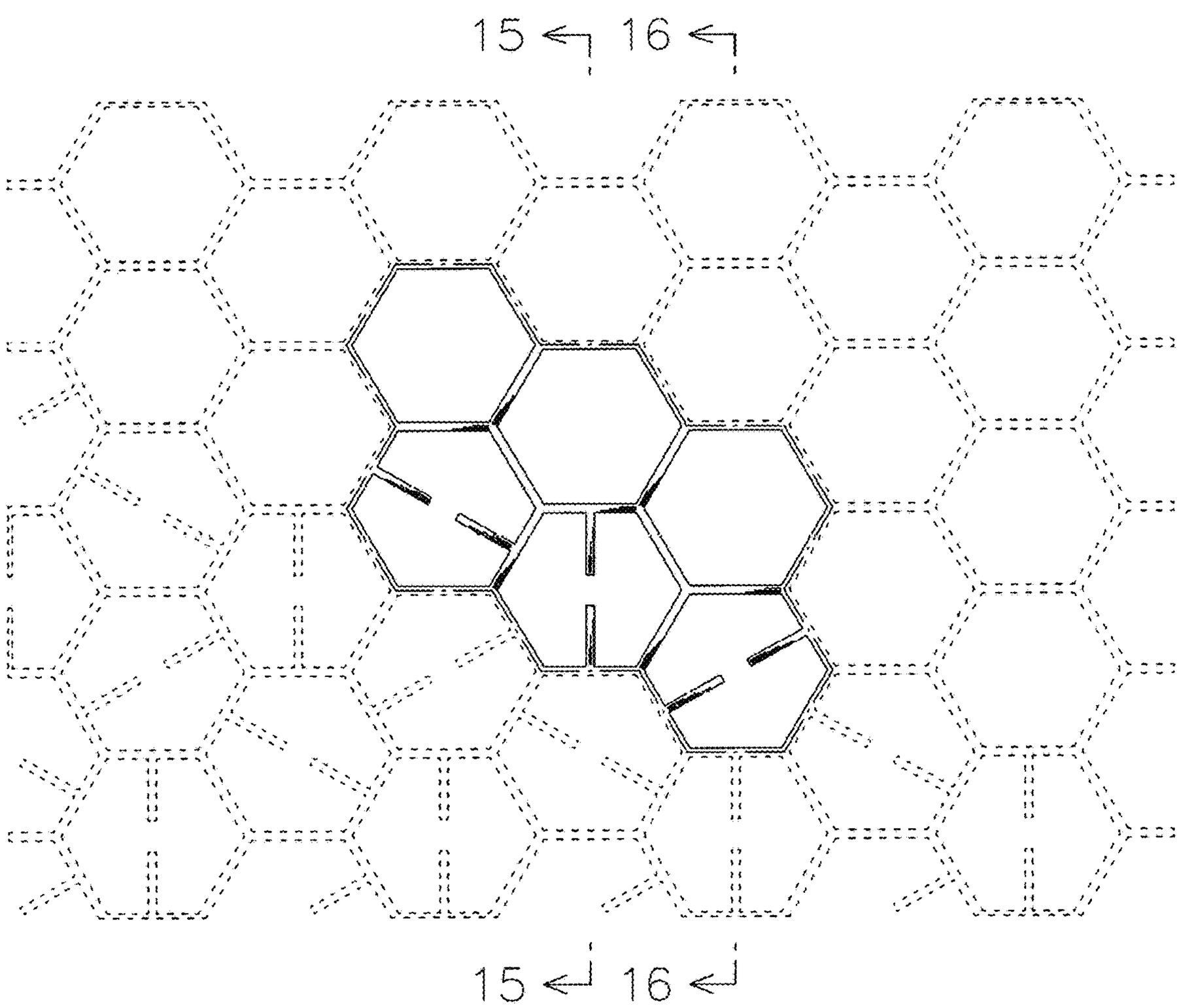

Fig.15

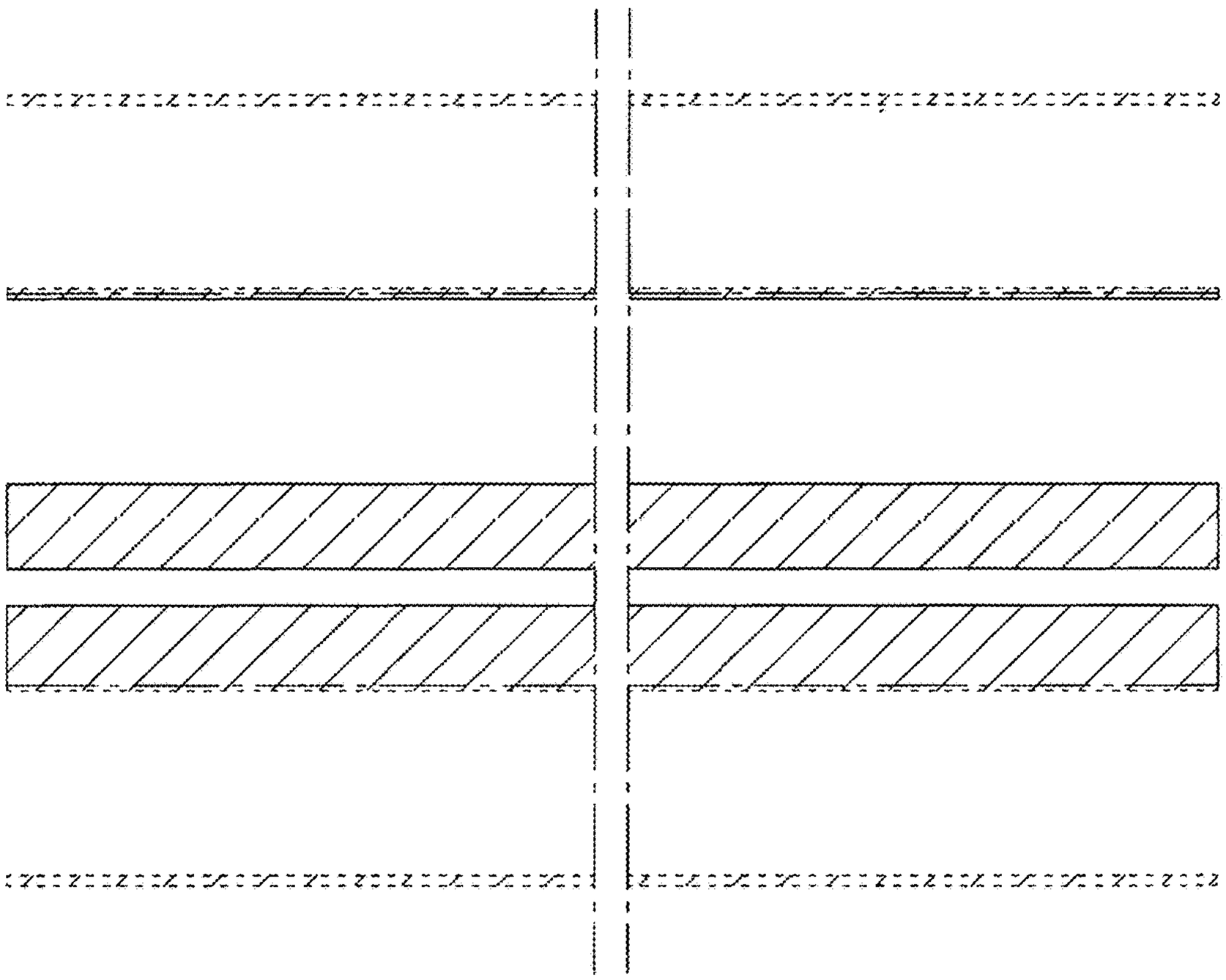

Fig.16