



US00D510913S

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

(10) **Patent No.:** **US D510,913 S**
(45) **Date of Patent:** **** Oct. 25, 2005**

(54) **LIGHT EMITTING DIODE**

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(73) Assignee: **Nichia Corporation**, Anan (JP)

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

(21) Appl. No.: **29/200,831**

(22) Filed: **Mar. 5, 2004**

(30) **Foreign Application Priority Data**

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| Sep. 9, 2003 | (JP) | | 2003-026229 |
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| Sep. 9, 2003 | (JP) | | 2003-026231 |
| Sep. 9, 2003 | (JP) | | 2003-026232 |
| Sep. 9, 2003 | (JP) | | 2003-026233 |
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| Sep. 9, 2003 | (JP) | | 2003-026236 |
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| Sep. 9, 2003 | (JP) | | 2003-026238 |
| Sep. 9, 2003 | (JP) | | 2003-026239 |
| Sep. 9, 2003 | (JP) | | 2003-026240 |
| Sep. 9, 2003 | (JP) | | 2003-026241 |
| Sep. 9, 2003 | (JP) | | 2003-026242 |
| Sep. 9, 2003 | (JP) | | 2003-026243 |

(51) **LOC (8) Cl.** **13-03**

(52) **U.S. Cl.** **D13/180**

(58) **Field of Search** D13/180, 182;
257/76, 79, 88, 89, 93-99, 434, 676, 678,
687, 690, 698, 787; 313/498, 799, 500;
361/760, 820; 362/226, 241, 249, 250,
307, 555, 800

(56) **References Cited**

U.S. PATENT DOCUMENTS

D432,095 S * 10/2000 Seeger et al. D13/182

(Continued)

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Assistant Examiner—Selina Sikder

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(57) **CLAIM**

I claim the ornamental design for the light emitting diode, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a light emitting diode according to the first embodiment of my new design;

FIG. 2 is a rear perspective view of a light emitting diode according to the embodiment of FIG. 1;

FIG. 3 is a top side view of the light emitting diode according to the embodiment of FIG. 1;

FIG. 4 is a left view of the light emitting diode according to the embodiment of FIG. 1;

FIG. 5 is a front elevational view of the light emitting diode according to the embodiment of FIG. 1;

FIG. 6 is a right view of the light emitting diode according to the embodiment of FIG. 1;

FIG. 7 is a bottom side of the light emitting diode according to the embodiment of FIG. 1;

FIG. 8 is a rear elevational view of the light emitting diode according to the embodiment of FIG. 1;

FIG. 9 is a front perspective view of a LED according to still another embodiment of my new design;

FIG. 10 is a rear perspective view of a light emitting diode according to the embodiment of FIG. 9;

FIG. 11 is a front side view of the light emitting diode according to the embodiment of FIG. 9;

FIG. 12 is a left view of the light emitting diode according to the embodiment of FIG. 9;

FIG. 13 is a plan view of the light emitting diode according to the embodiment of FIG. 9;

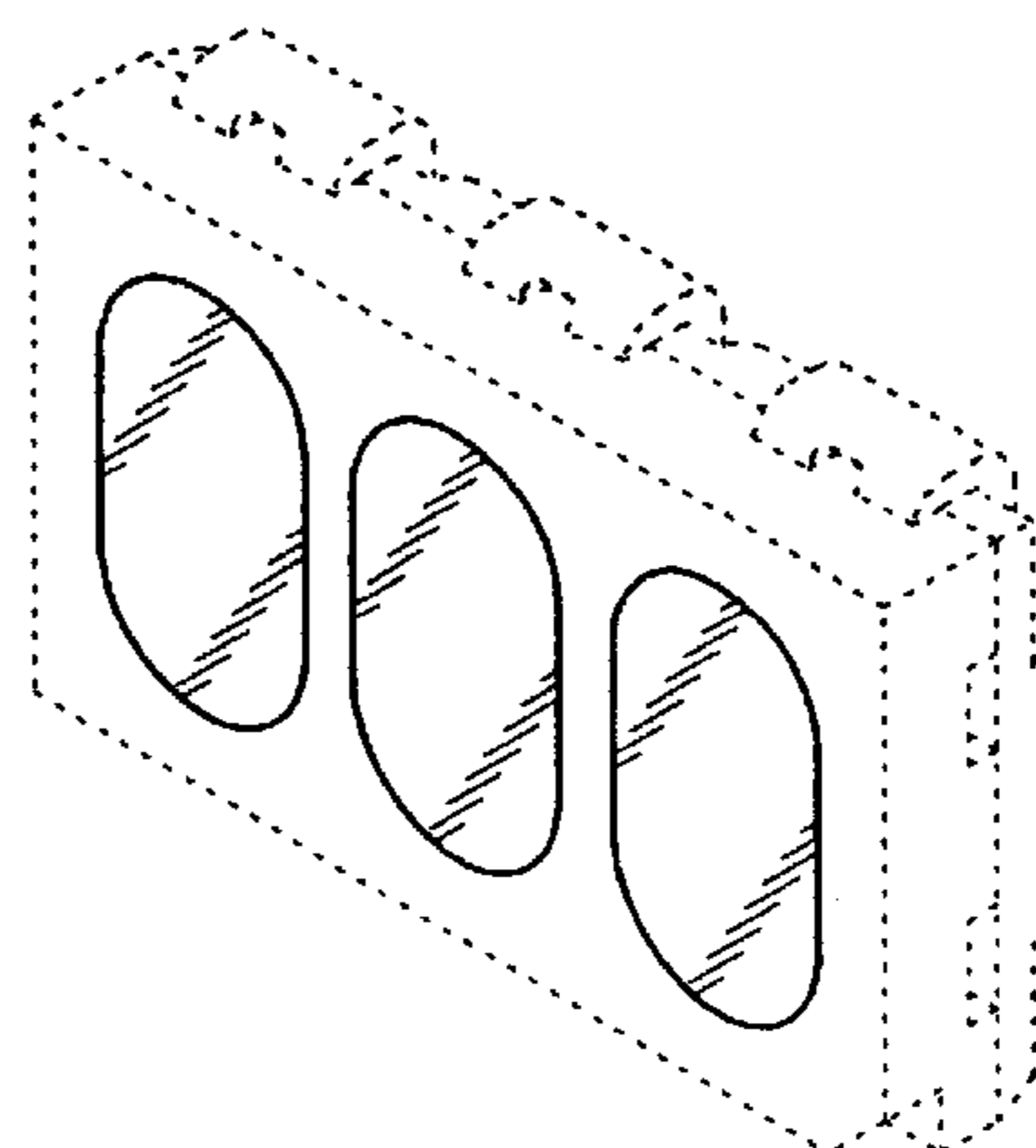
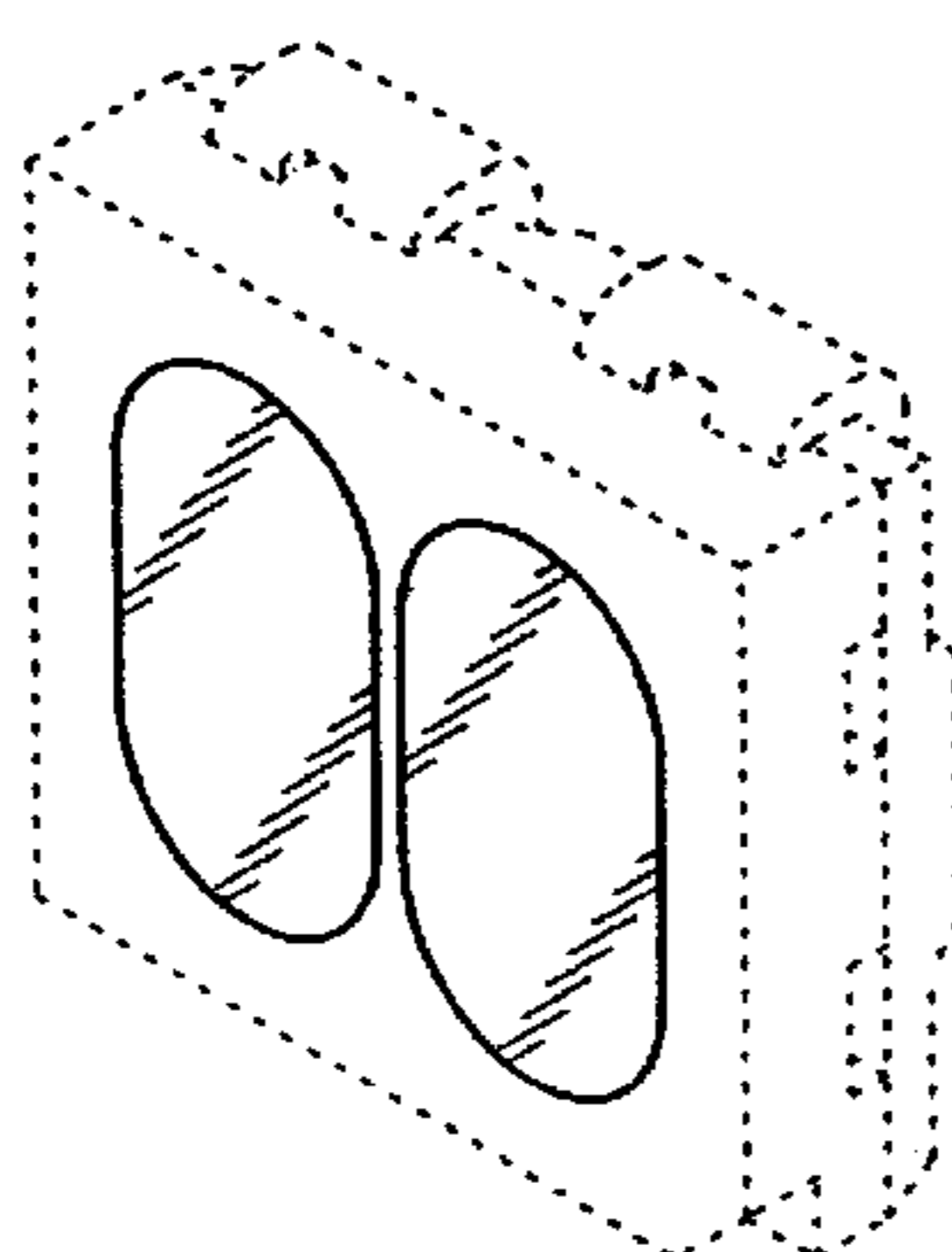
FIG. 14 is a right view of the light emitting diode according to the embodiment of FIG. 9;

FIG. 15 is a bottom side of the light emitting diode according to the embodiment of FIG. 9; and,

FIG. 16 is a rear elevational view of the light emitting diode according to the embodiment of FIG. 9.

The broken line showing of the environment is for illustrative purpose only and forms no part of the claimed design.

1 Claim, 4 Drawing Sheets



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U.S. PATENT DOCUMENTS

| | | | | | | | | | |
|--------------|---|---------|-------------------|---------|--------------|---|---------|--------------------|---------|
| D437,798 S | * | 2/2001 | Kiba et al. | D10/104 | D482,337 S | * | 11/2003 | Kamada | D13/182 |
| D439,351 S | * | 3/2001 | Kiba et al. | D26/37 | 6,717,256 B1 | * | 4/2004 | Suzuki et al. | 257/691 |
| 6,355,946 B1 | * | 3/2002 | Ishinaga | 257/98 | D490,387 S | * | 5/2004 | Yagi | D13/182 |
| 6,483,623 B1 | * | 11/2002 | Maruyama | 398/182 | D491,899 S | * | 6/2004 | Yagi | D13/180 |
| D471,166 S | * | 3/2003 | Oshio et al. | D13/182 | D494,550 S | * | 8/2004 | Hoshiba | D13/180 |
| 6,624,491 B2 | * | 9/2003 | Waitl et al. | 257/434 | D495,304 S | * | 8/2004 | Kim et al. | D13/180 |

* cited by examiner

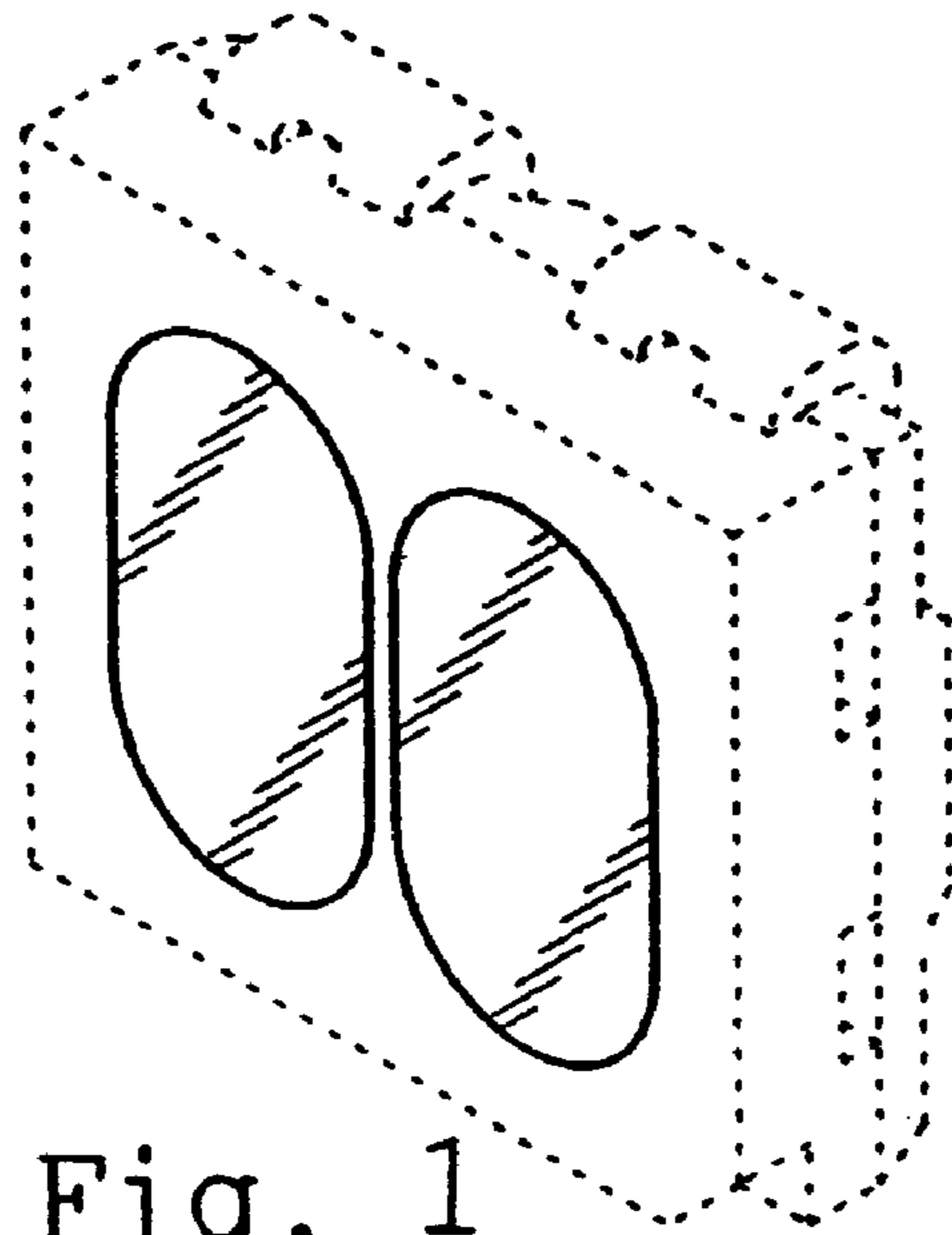


Fig. 1

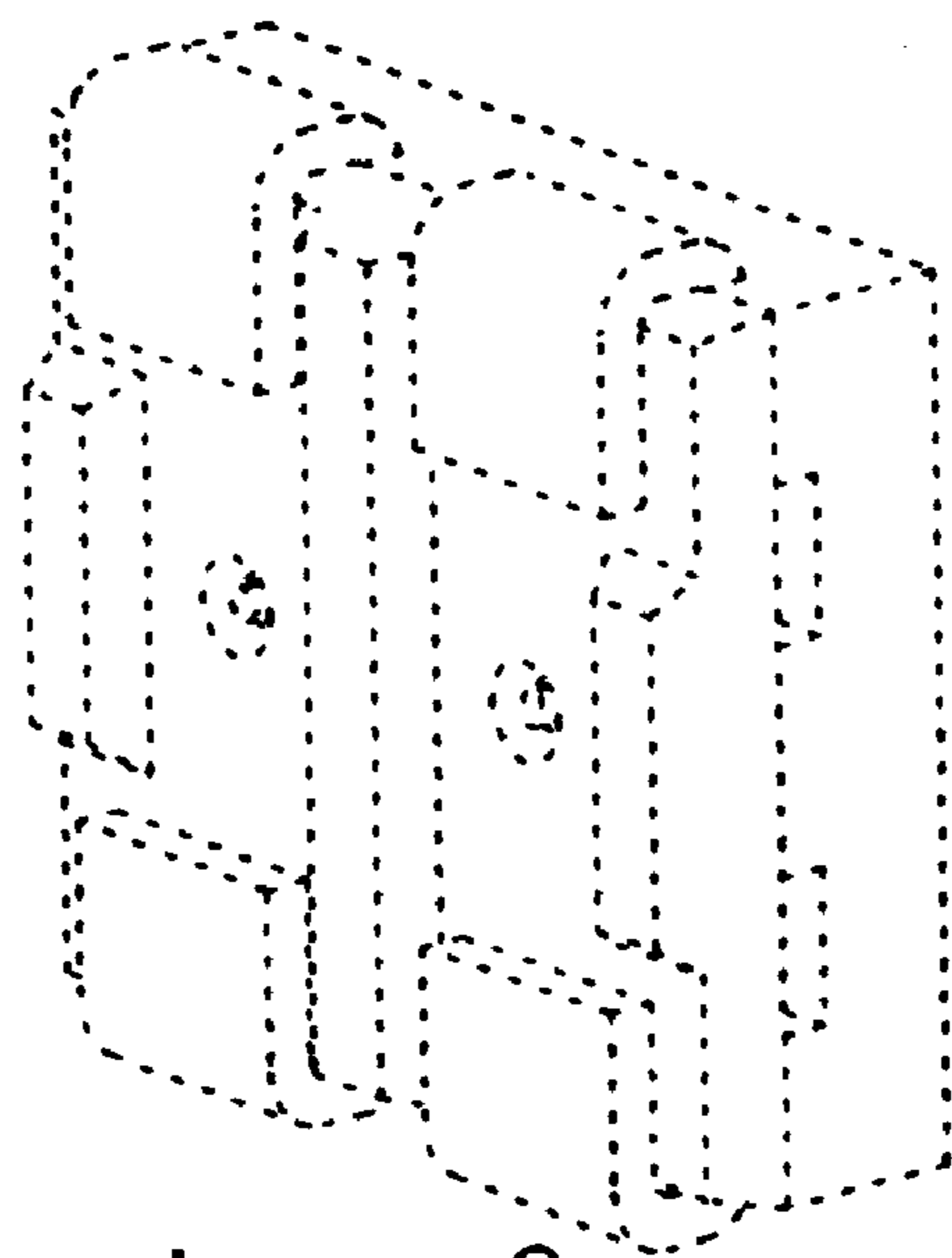


Fig. 2

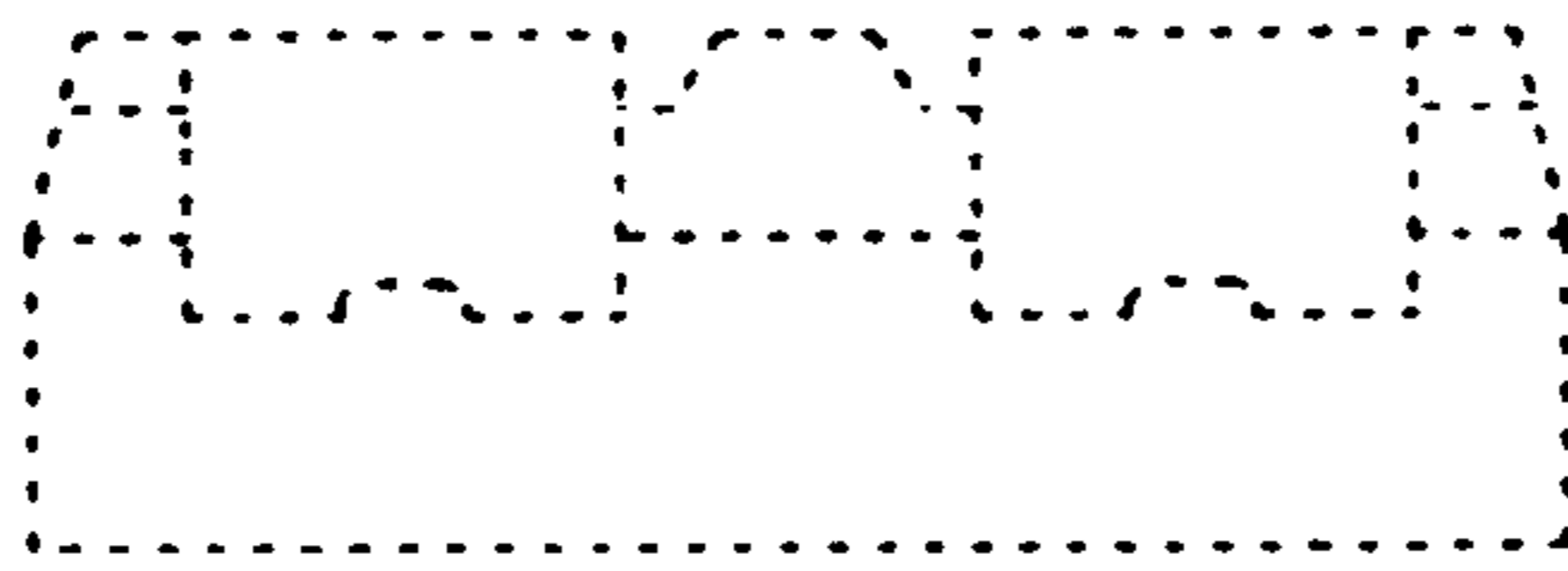


Fig. 3

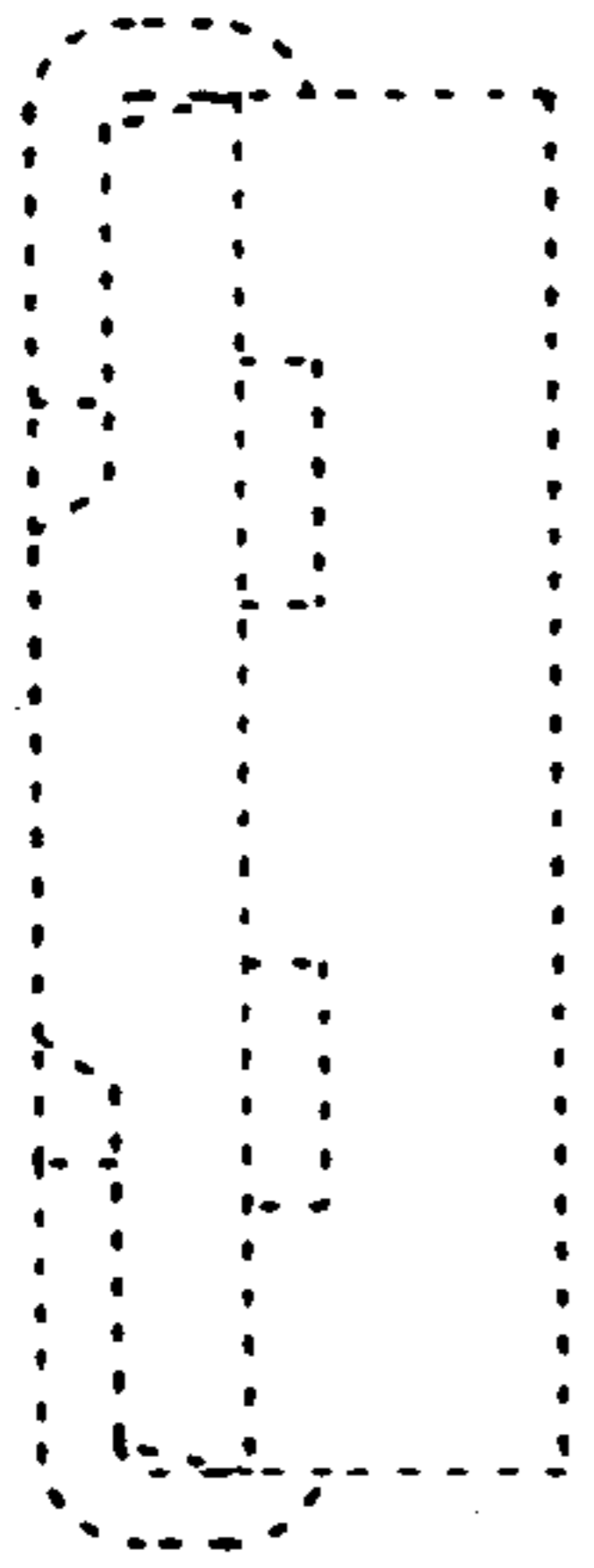


Fig. 4

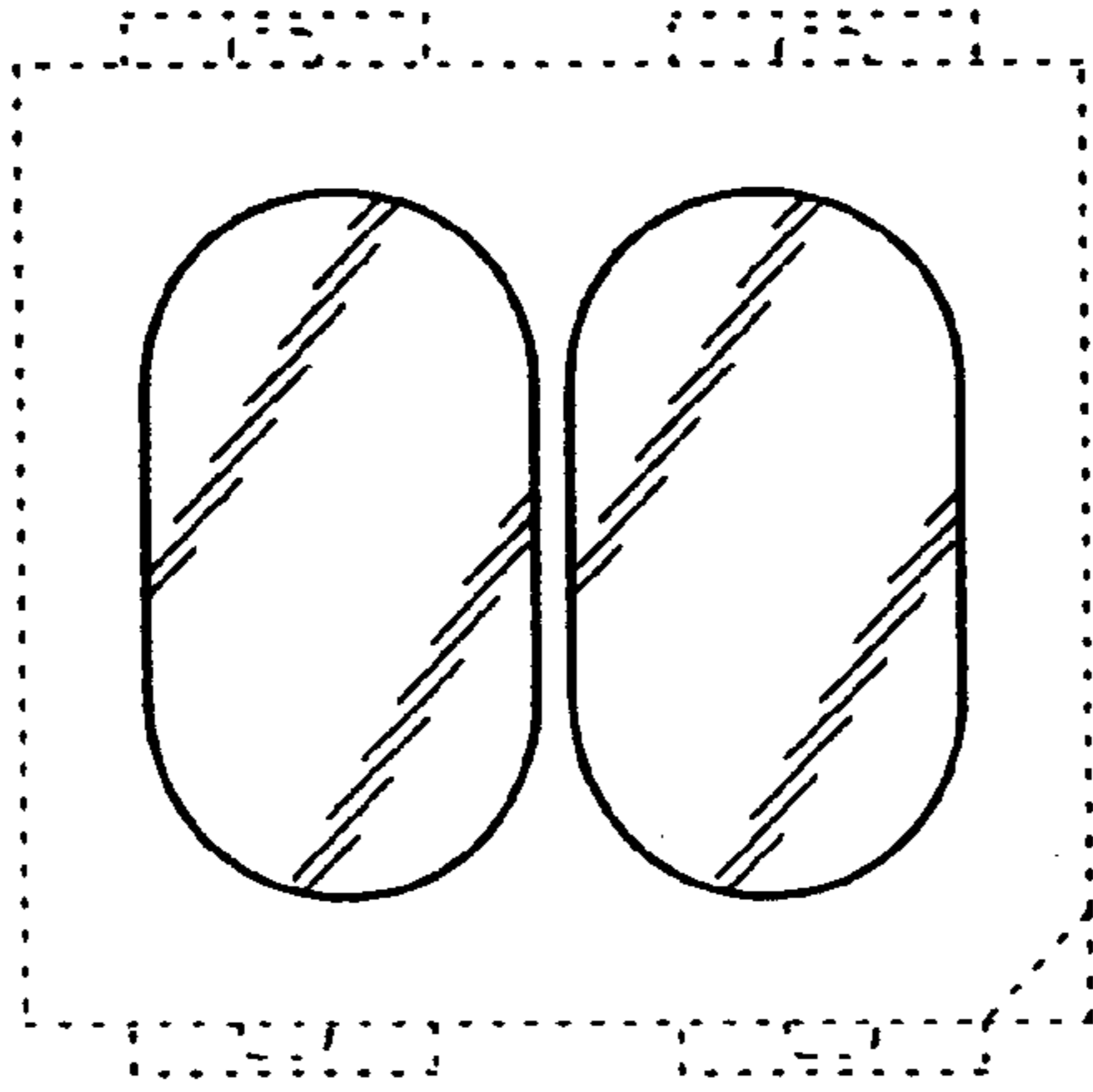


Fig. 5

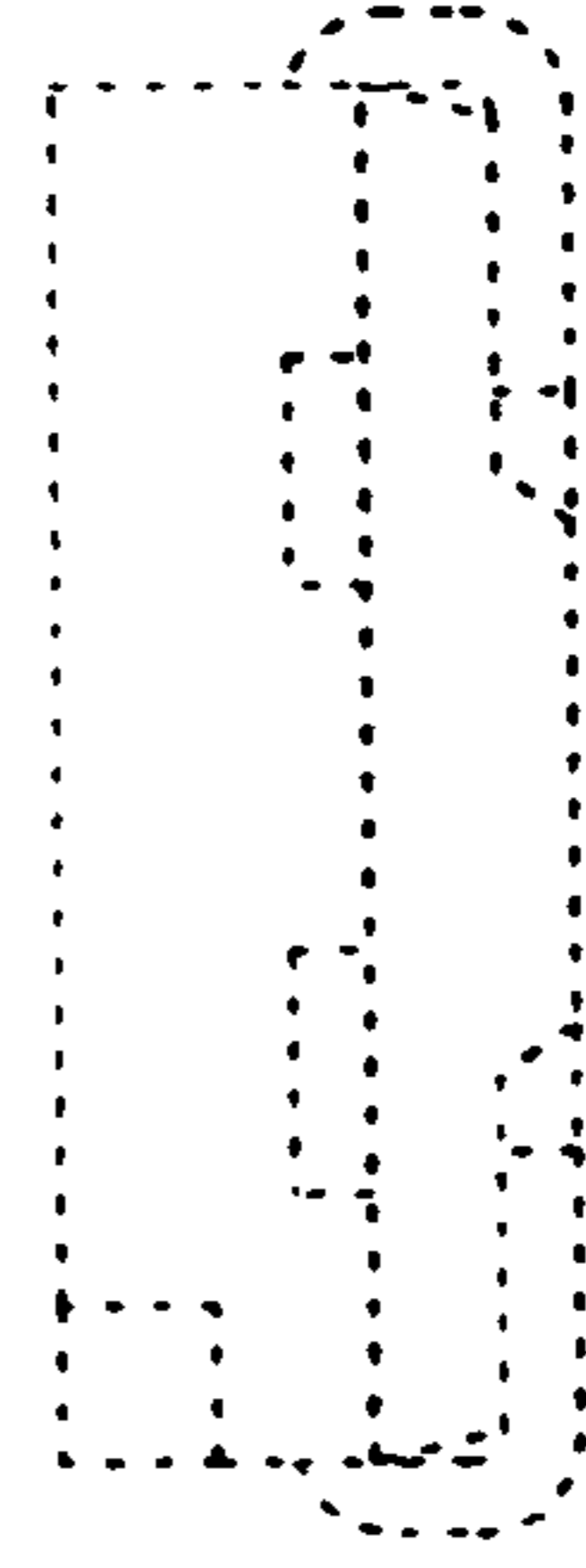


Fig. 6

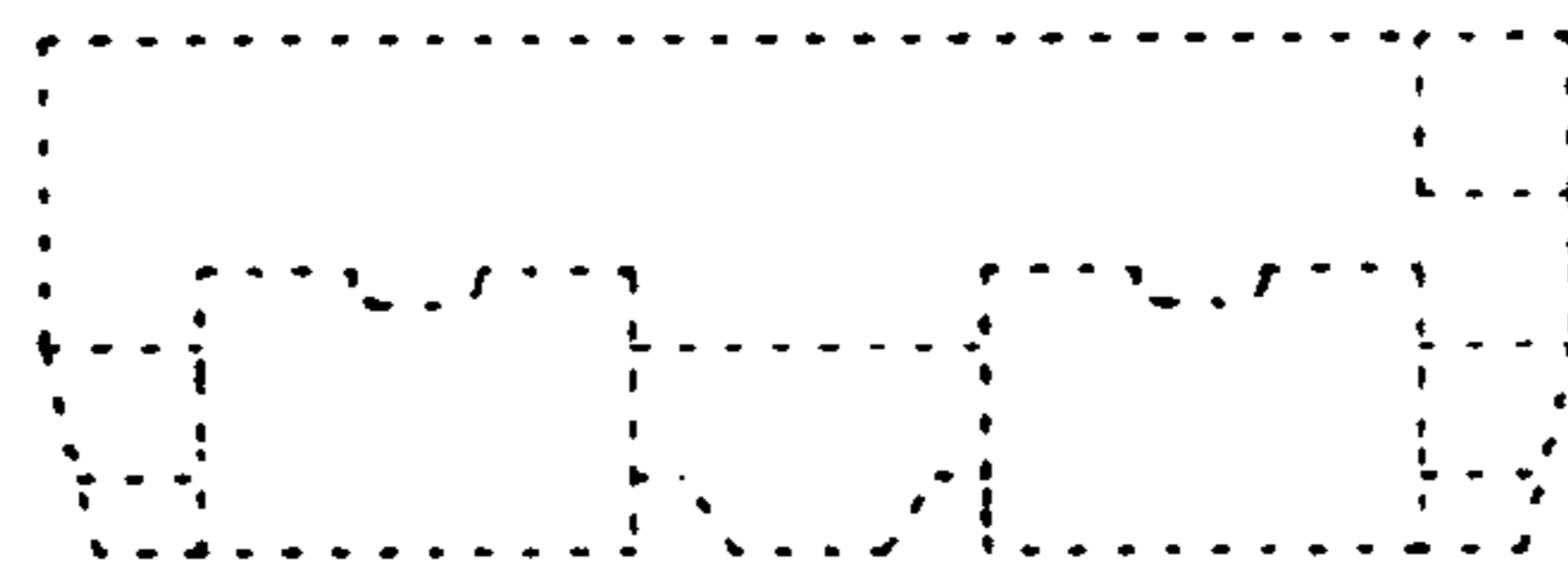


Fig. 7

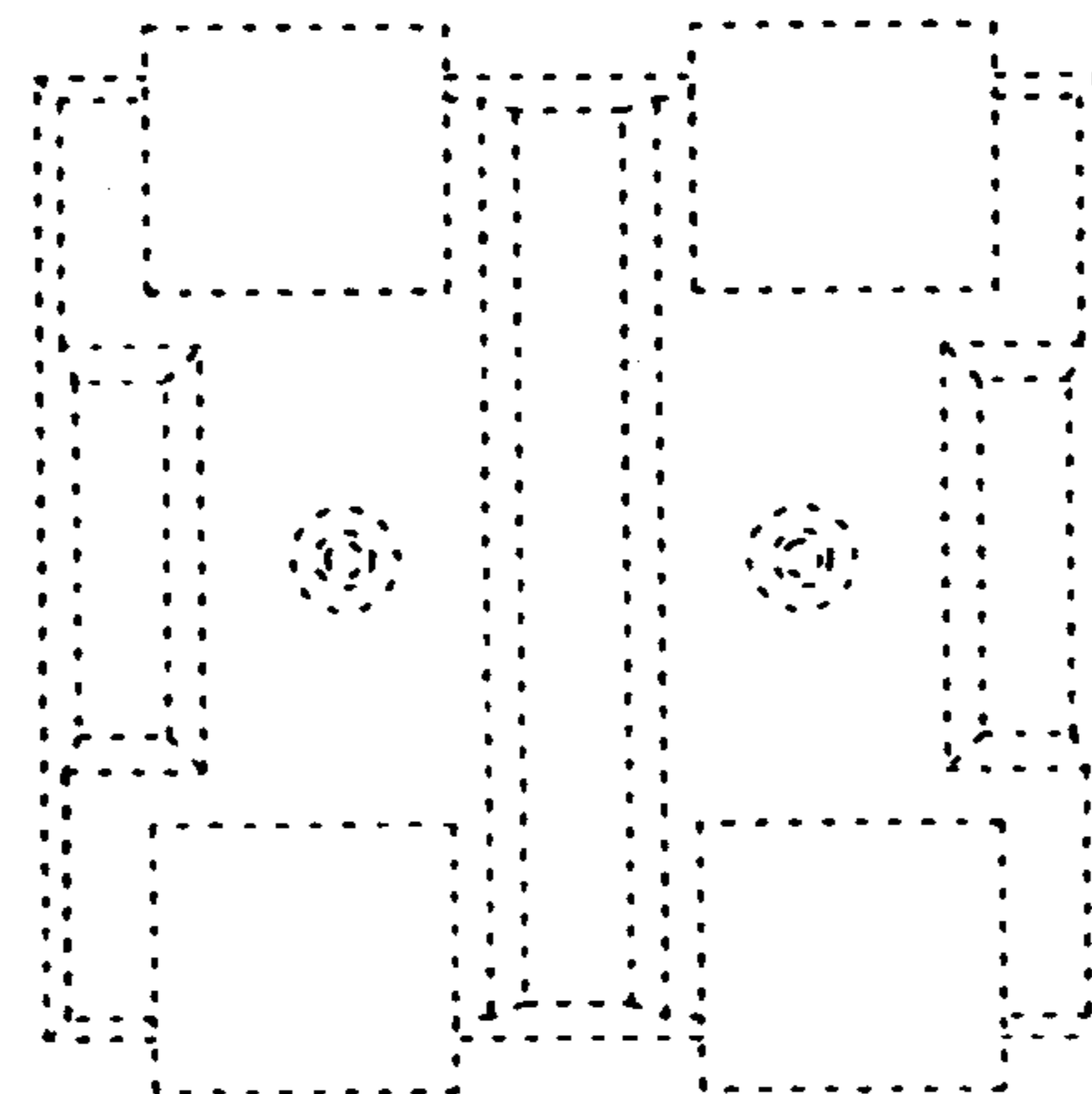


Fig. 8

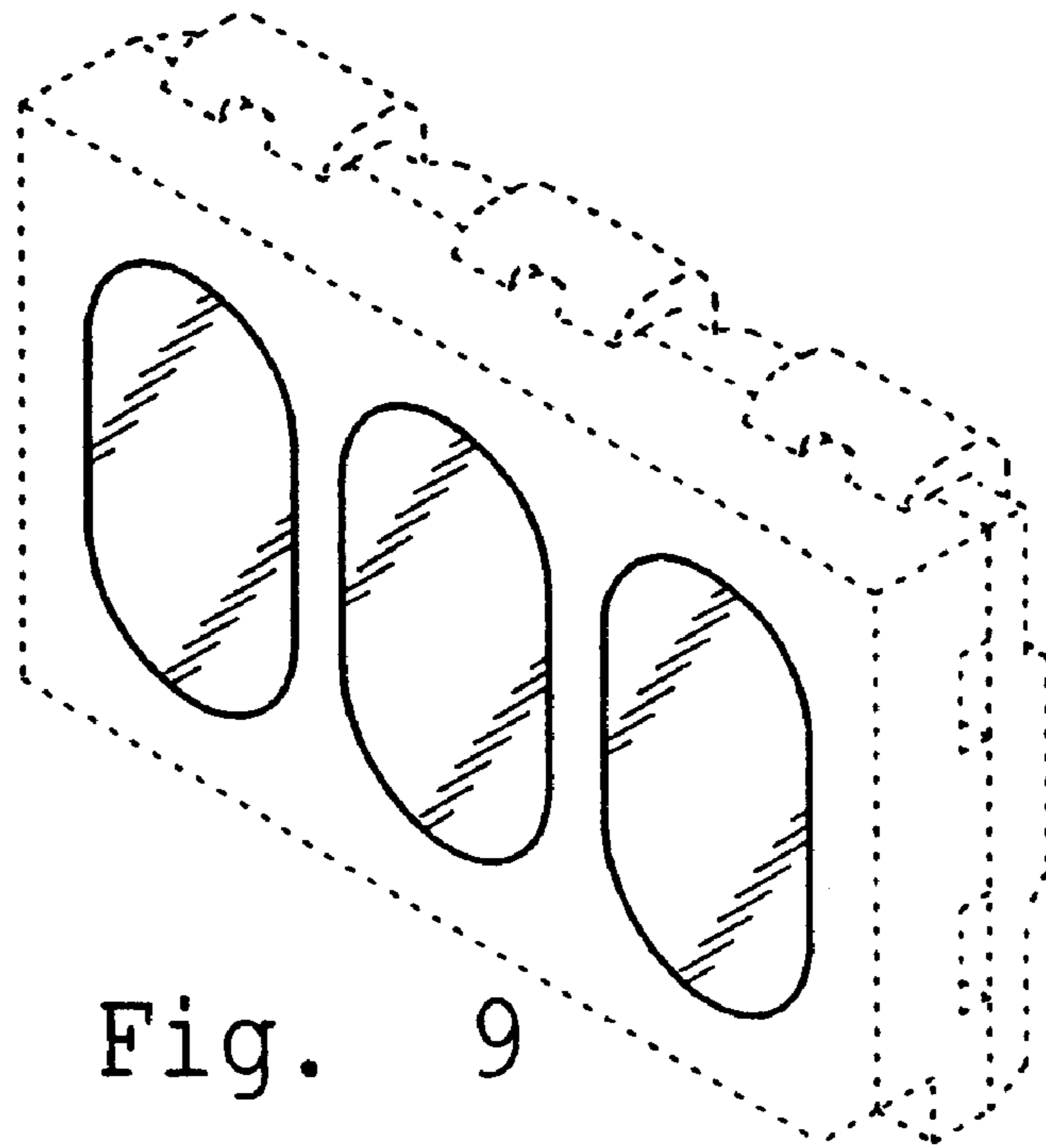


Fig. 9

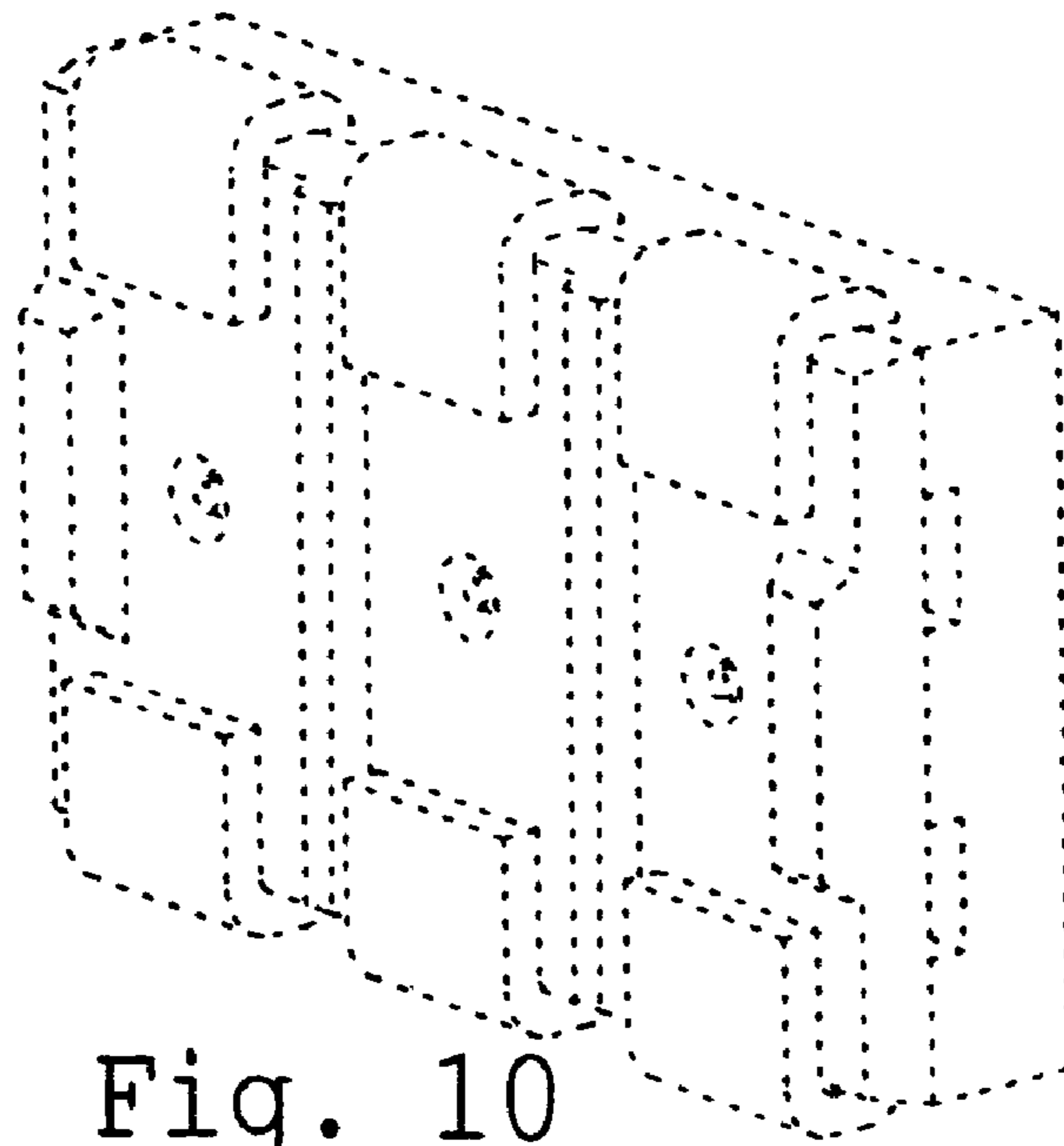


Fig. 10

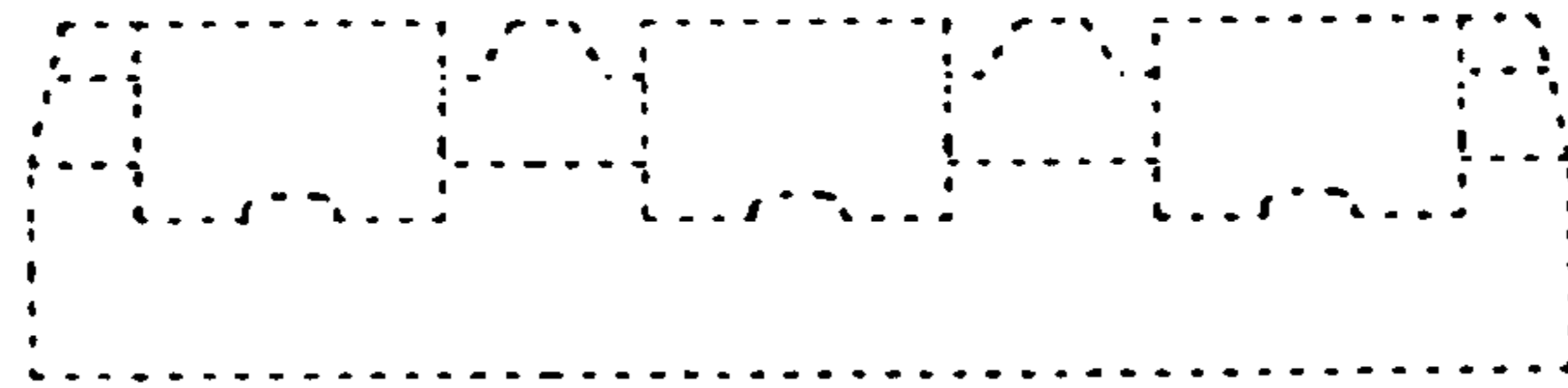


Fig. 11

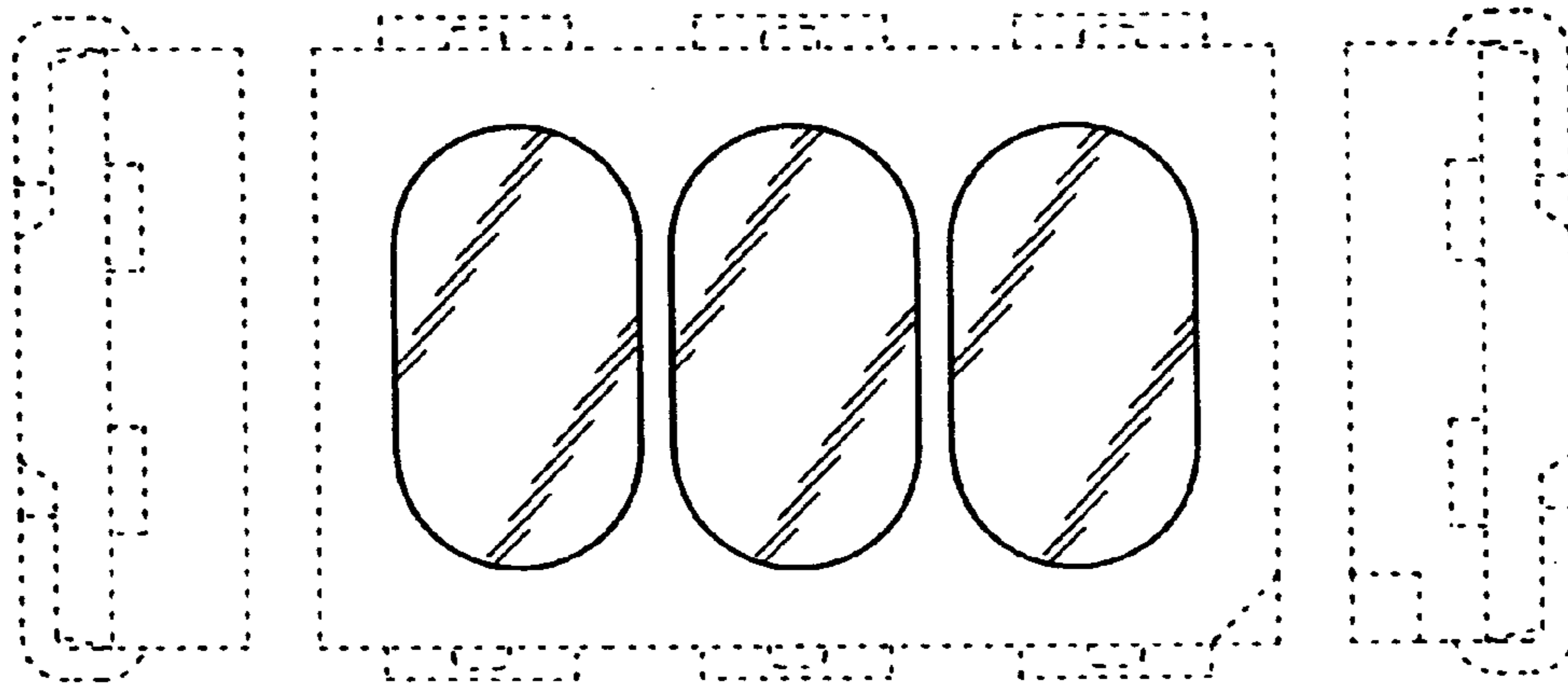


Fig. 12

Fig. 13

Fig. 14

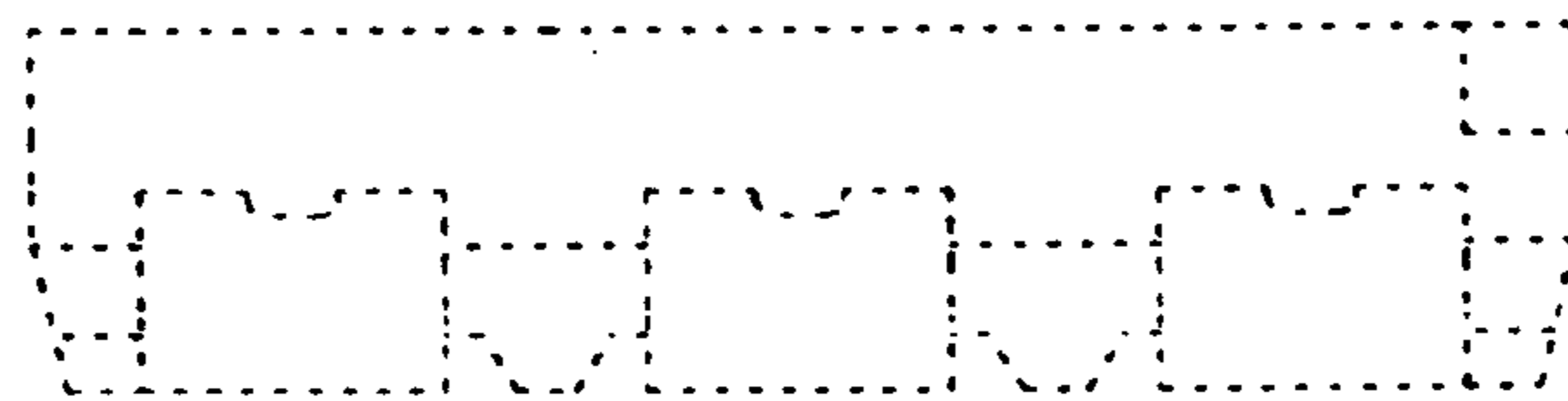


Fig. 15

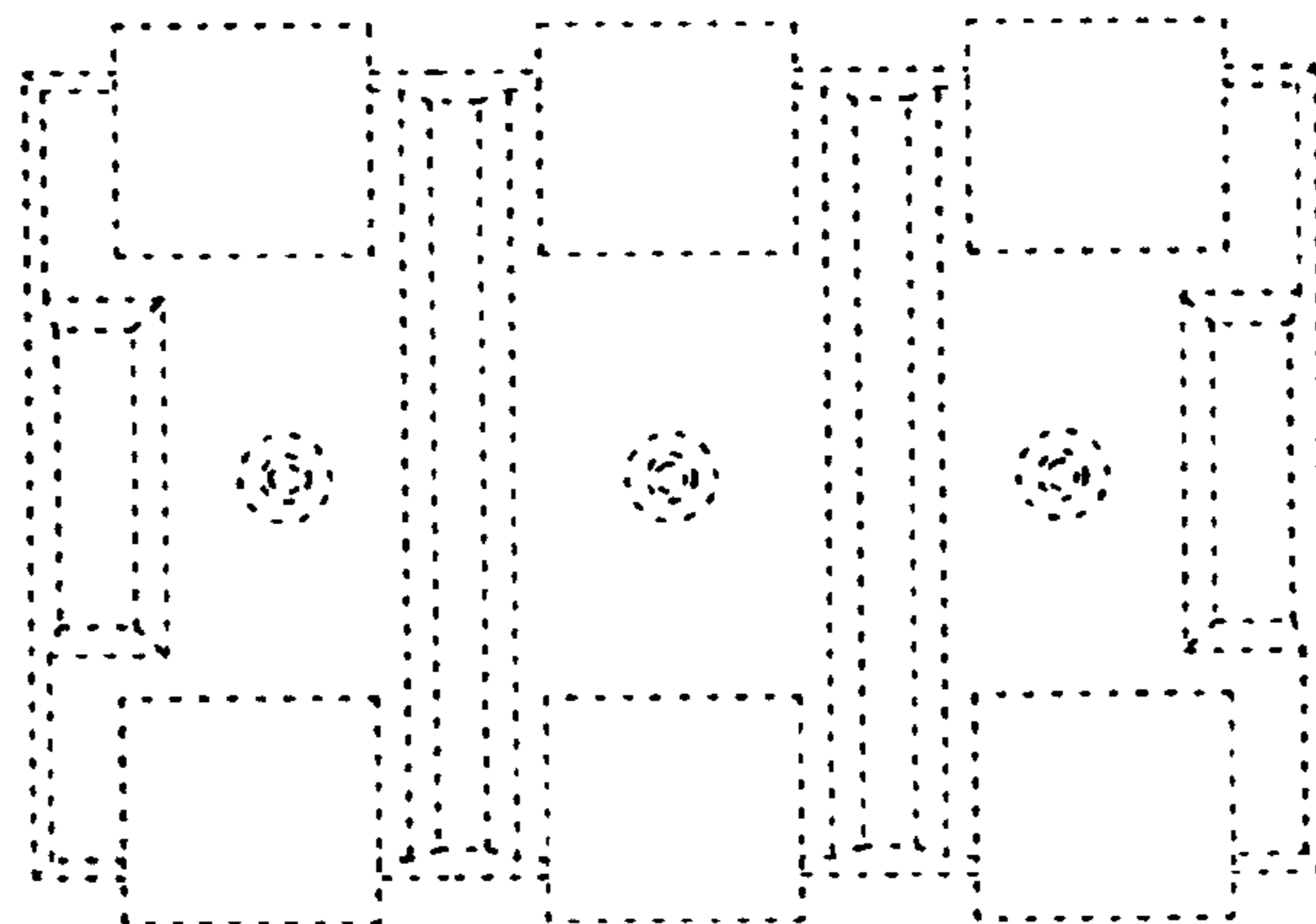


Fig. 16