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

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(45) **Date of Patent:** **\*\* Dec. 18, 2001**

(54) **ARRANGEMENT OF ALUMINUM FOIL COILS FORMING AN INDUCTOR OF A RESONANT FREQUENCY IDENTIFICATION ELEMENT**

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(73) Assignee: **Meto International GmbH**, Hirschhorn (DE)

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

(21) Appl. No.: **29/136,375**

(22) Filed: **Jan. 31, 2001**

**Related U.S. Application Data**

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(30) **Foreign Application Priority Data**

Oct. 15, 1998 (DE) ..... 498 10 255

(51) **LOC (7) Cl.** ..... **13-03**

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

(58) **Field of Search** ..... D13/182; 336/12, 336/20, 200, 212; 340/572

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*Primary Examiner*—Brian N. Vinson  
(74) *Attorney, Agent, or Firm*—Jones, Tullar & Cooper, P.C.

(57) **CLAIM**

The ornamental design for an arrangement of aluminum foil coils forming an inductor of a resonant frequency identification element, as shown and described.

**DESCRIPTION**

FIG. 1 is a top view of the arrangement of aluminum foil coils forming an inductor of the resonant frequency identification of the present invention;

FIG. 2 is a bottom view of the arrangement of FIG. 1;

FIG. 3 is a top view of the arrangement of aluminum foil coils mounted on a chip dimensioned differently from the arrangement of FIGS. 1 and 2;

FIG. 4 is a bottom view of the arrangement of FIG. 3;

FIG. 5 is a top view of another arrangement of aluminum foil coils mounted on a chip;

FIG. 6 is a bottom view of the arrangement of FIG. 5;

FIG. 7 is a top view of an arrangement of aluminum foil coils mounted on a chip dimensioned differently from the arrangement of FIGS. 1, 2, 3, 4 and 5;

FIG. 8 is a bottom view of the arrangement of FIG. 5;

FIG. 9 is a top view of another arrangement of aluminum foil coils mounted on a chip;

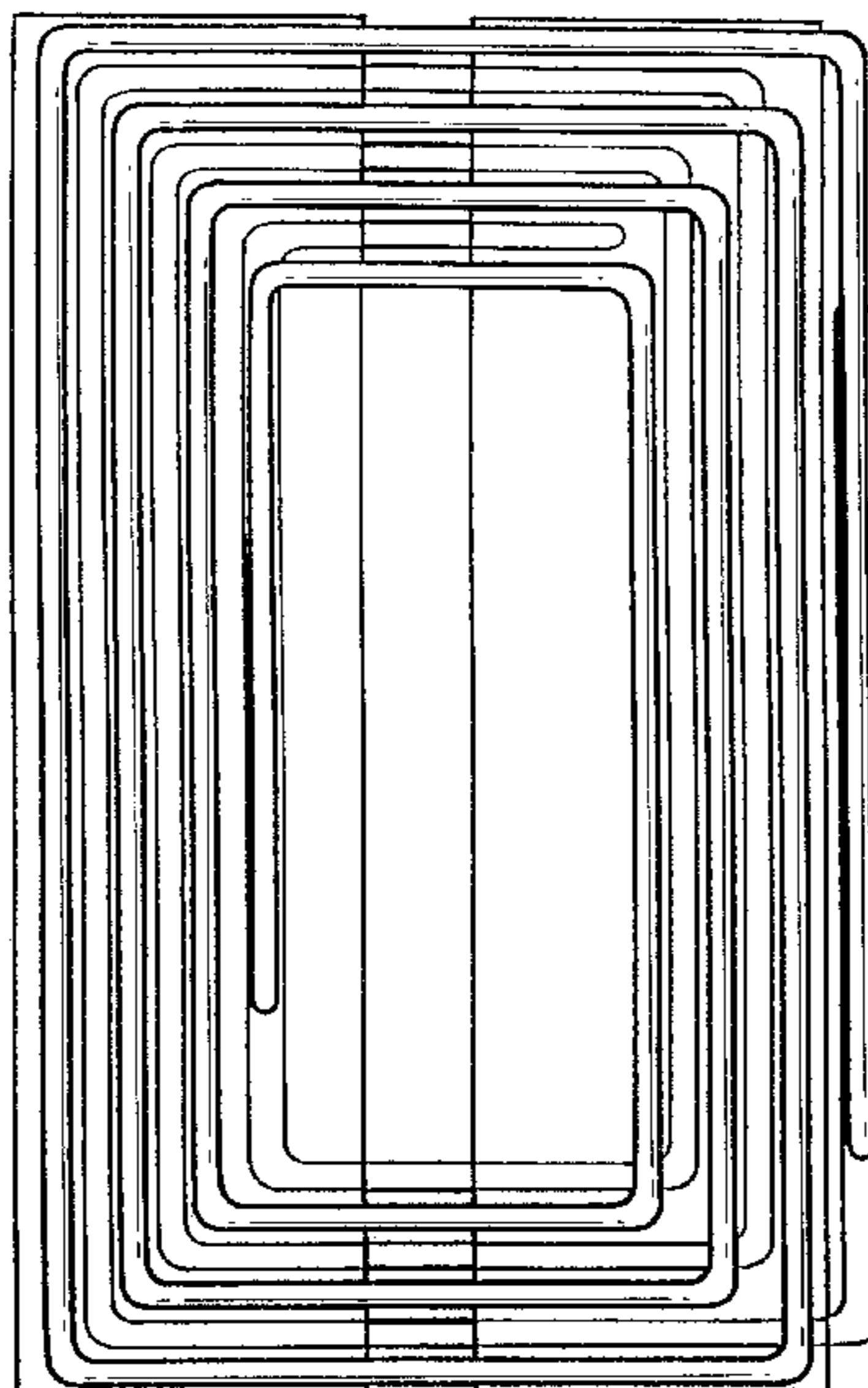
FIG. 10 is a bottom view of the arrangement of FIG. 9;

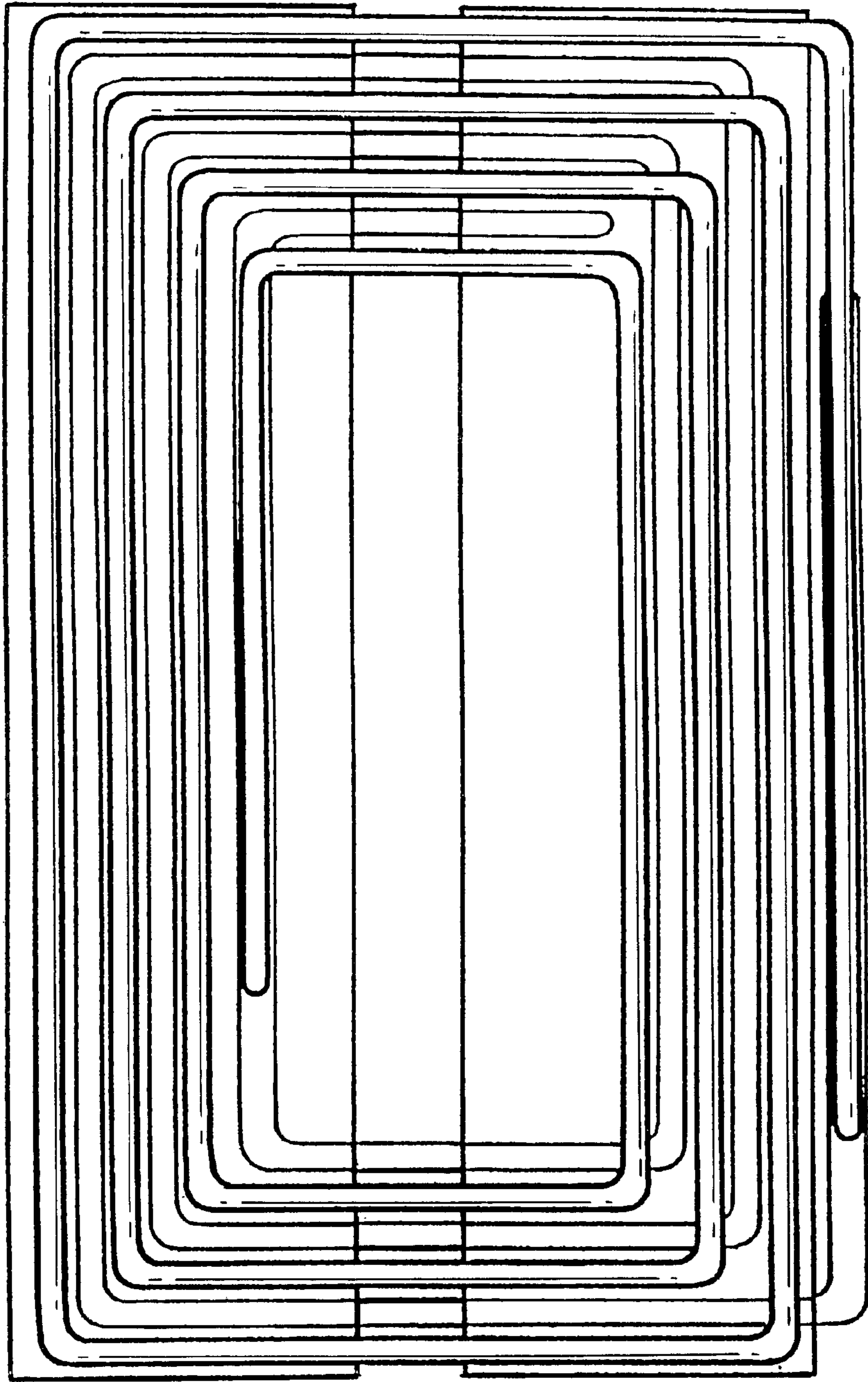
FIG. 11 is a top view of an arrangement of aluminum foil coils mounted on a chip dimensioned differently from the arrangement of FIGS. 9 and 10; and,

FIG. 12 is a bottom view of the arrangement of FIG. 11.

The arrangement of coils is of nominal thickness.

**1 Claim, 12 Drawing Sheets**





*FIG. 1*

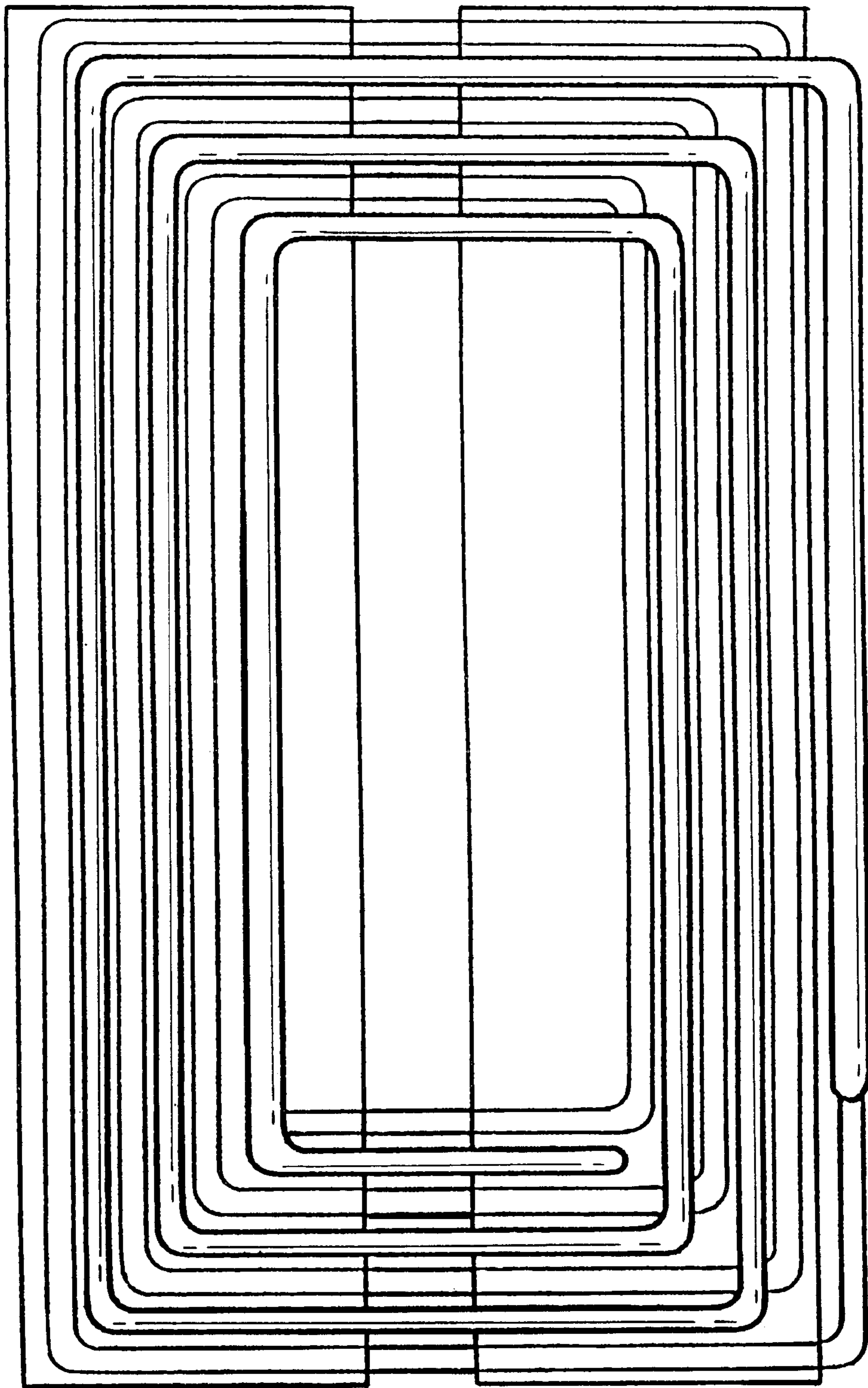


FIG. 2

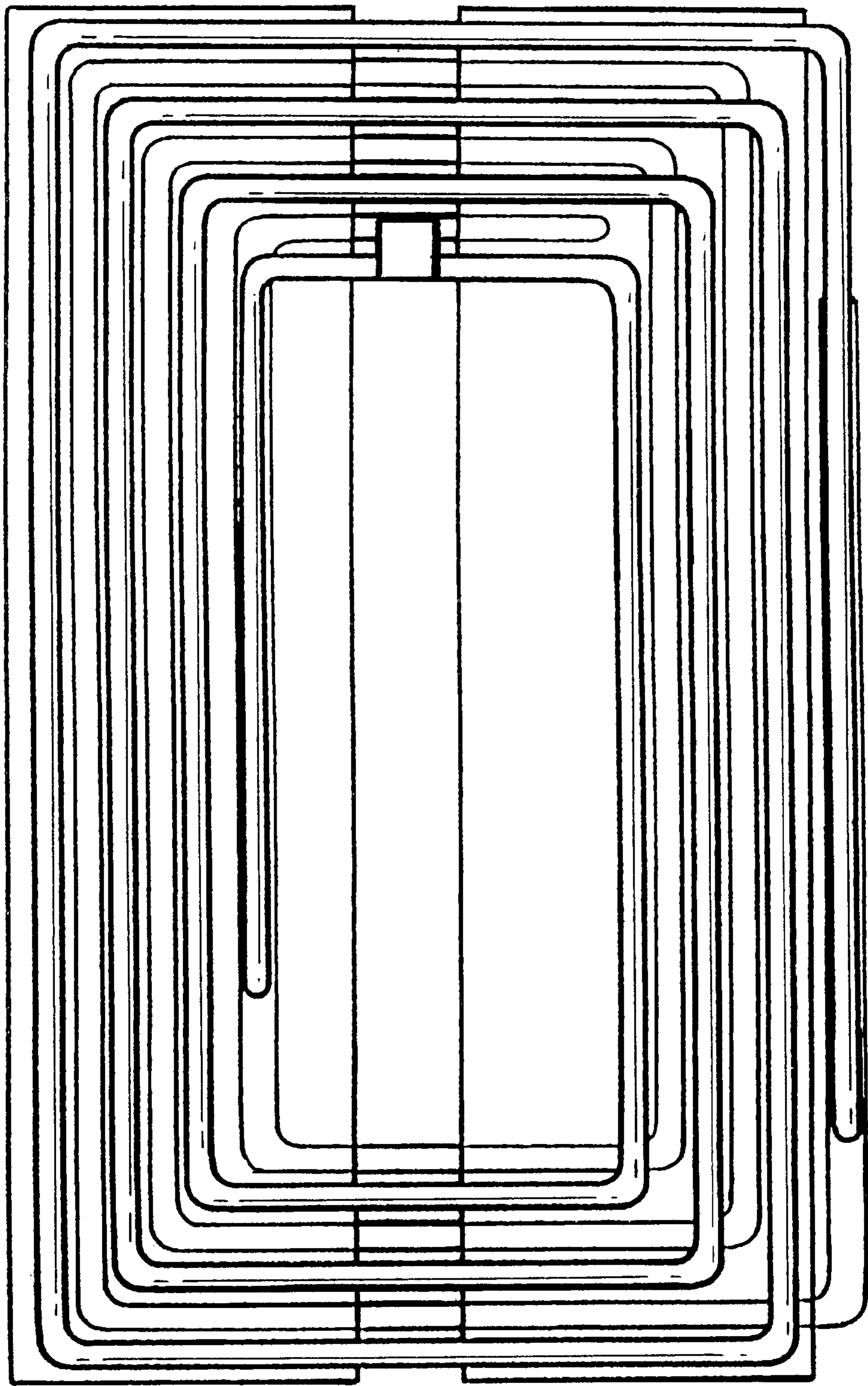


FIG. 3

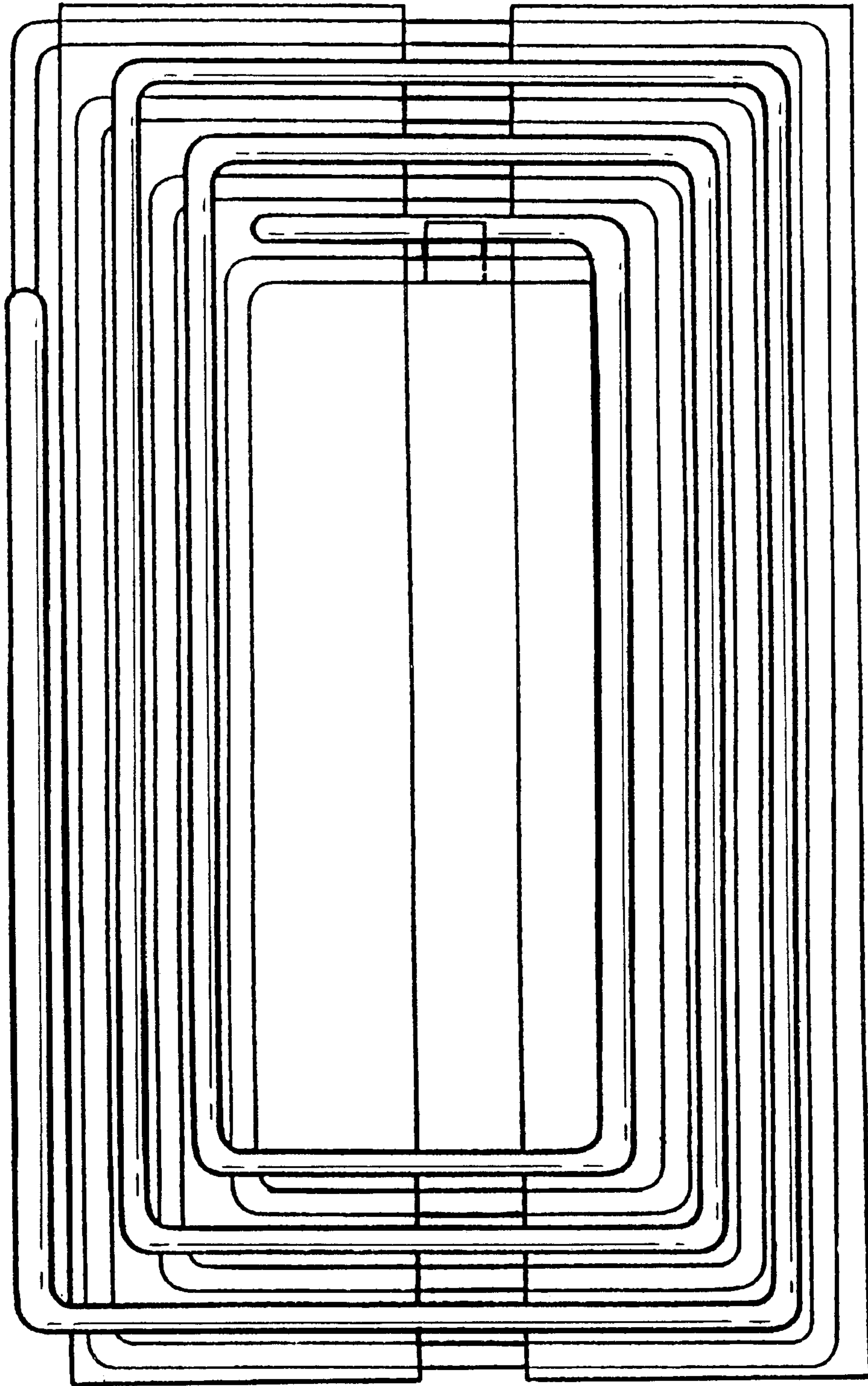


FIG. 4

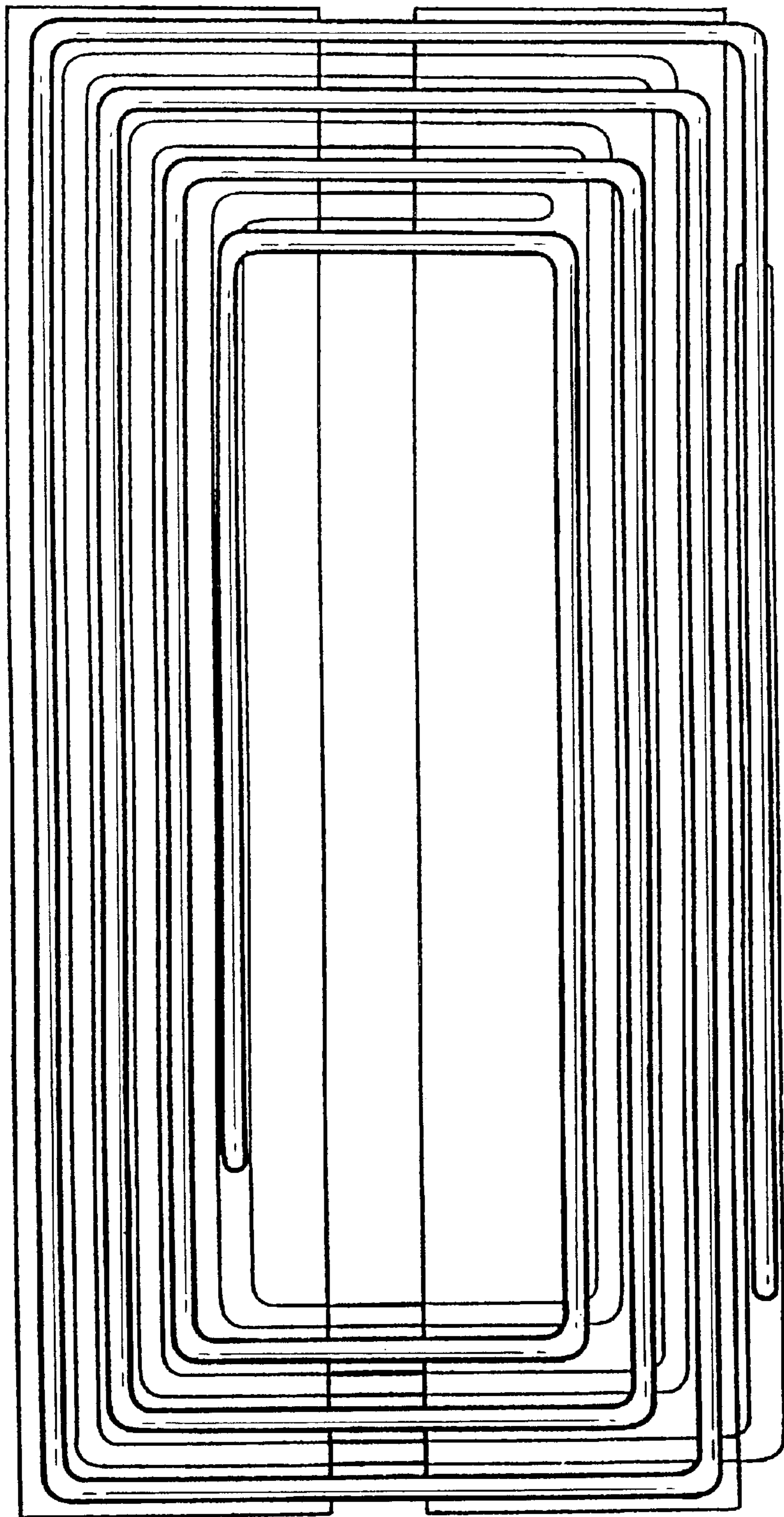


FIG. 5

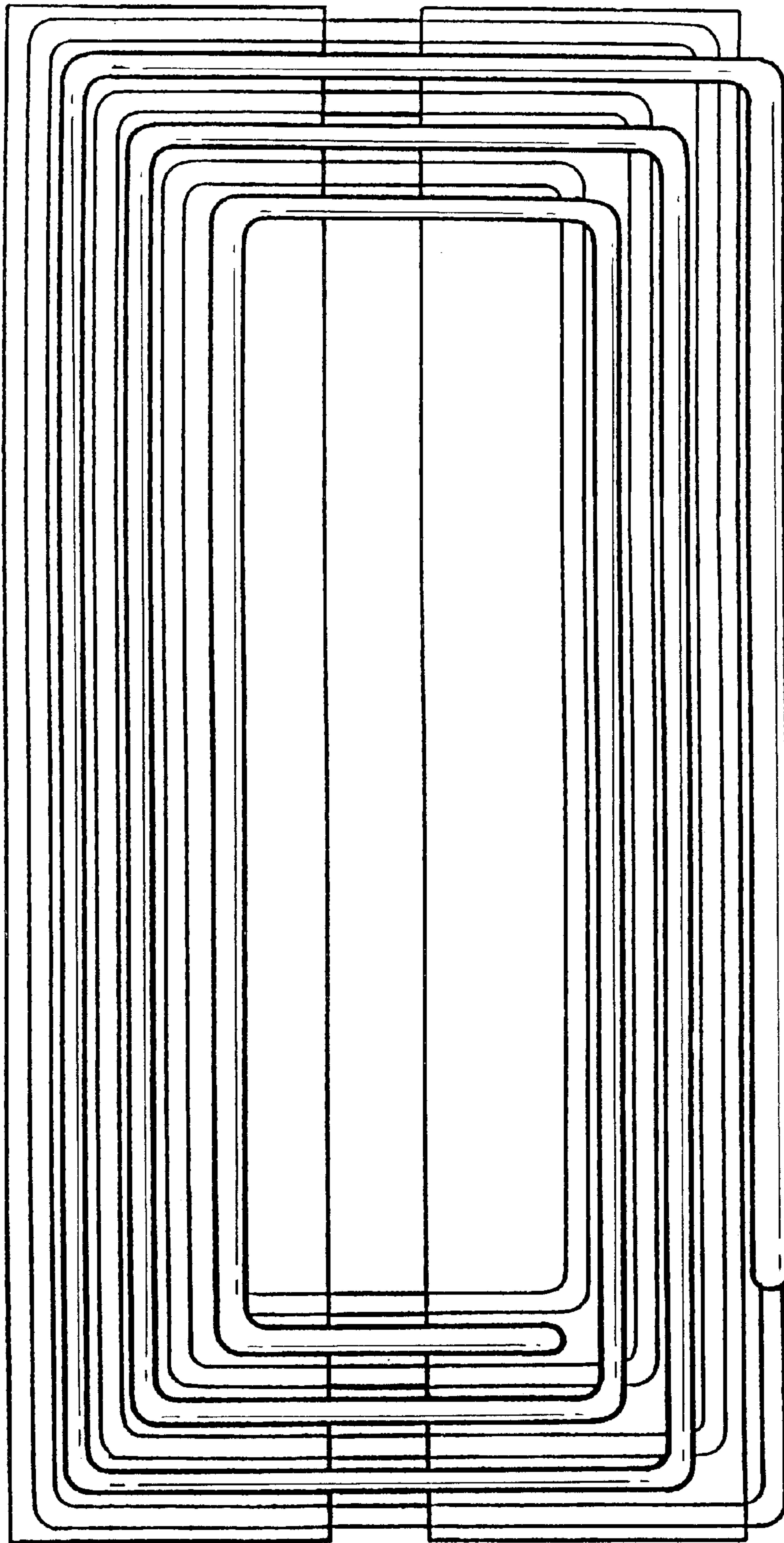


FIG. 6

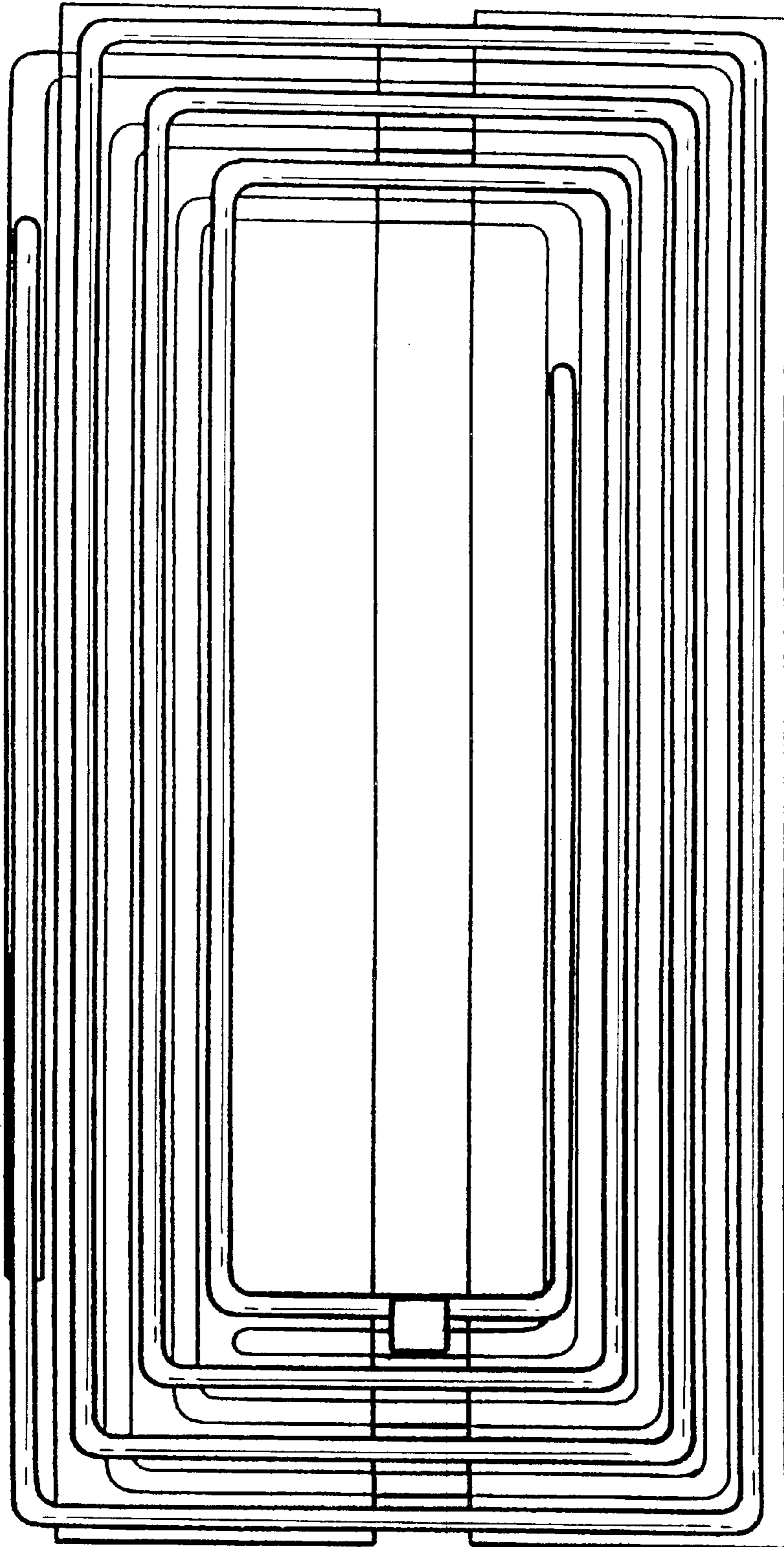


FIG. 7



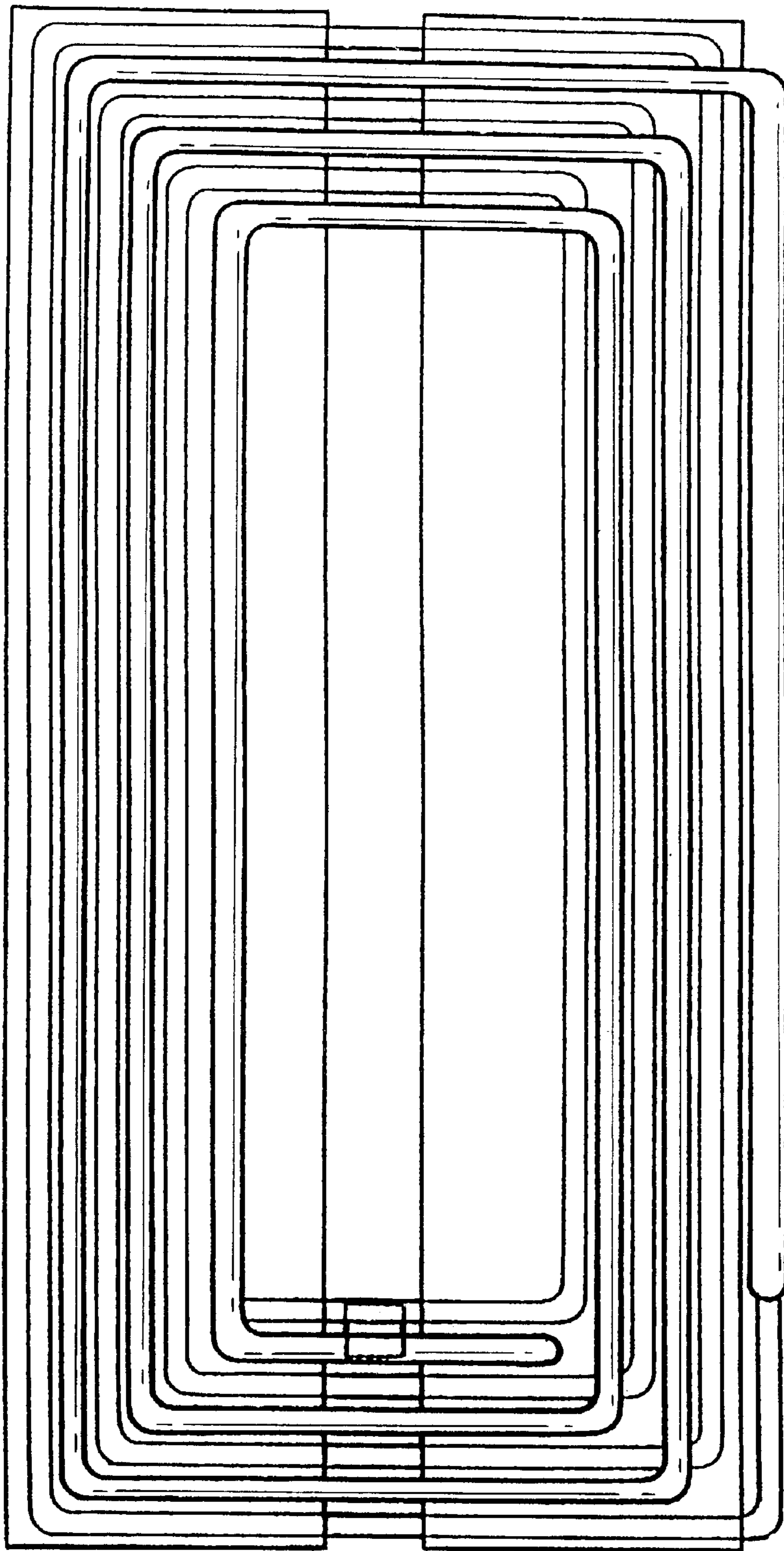


FIG. 8

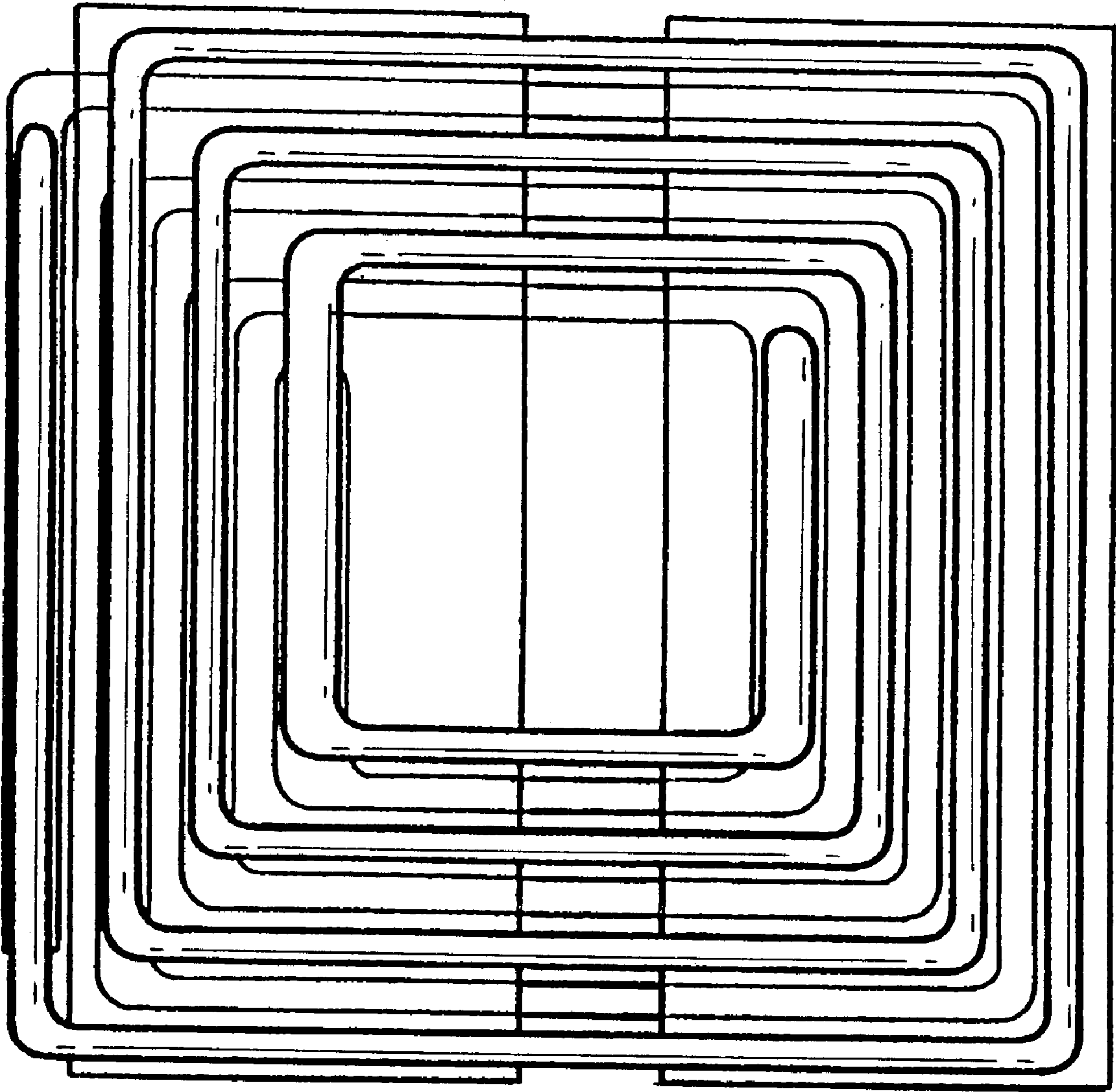
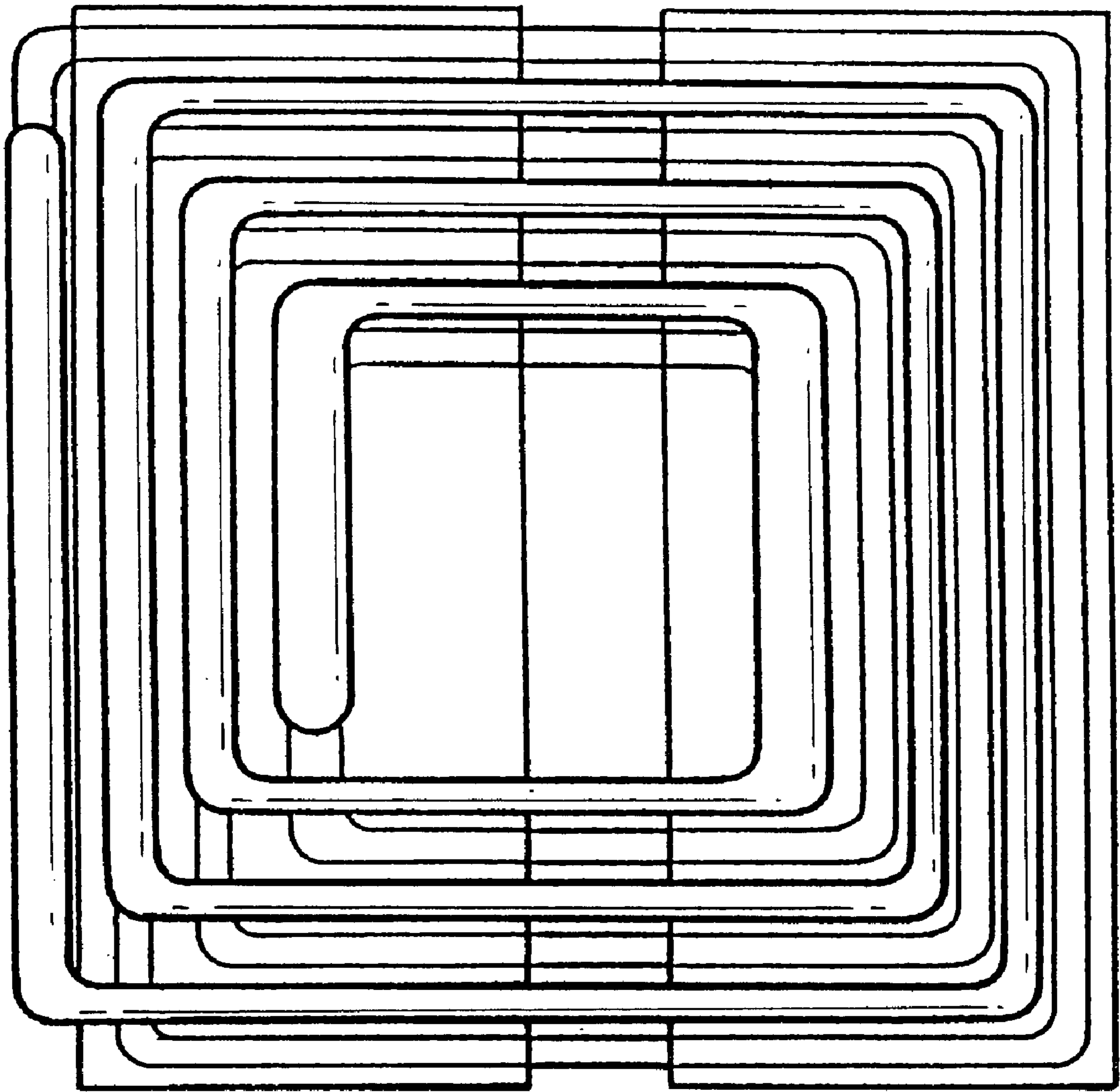
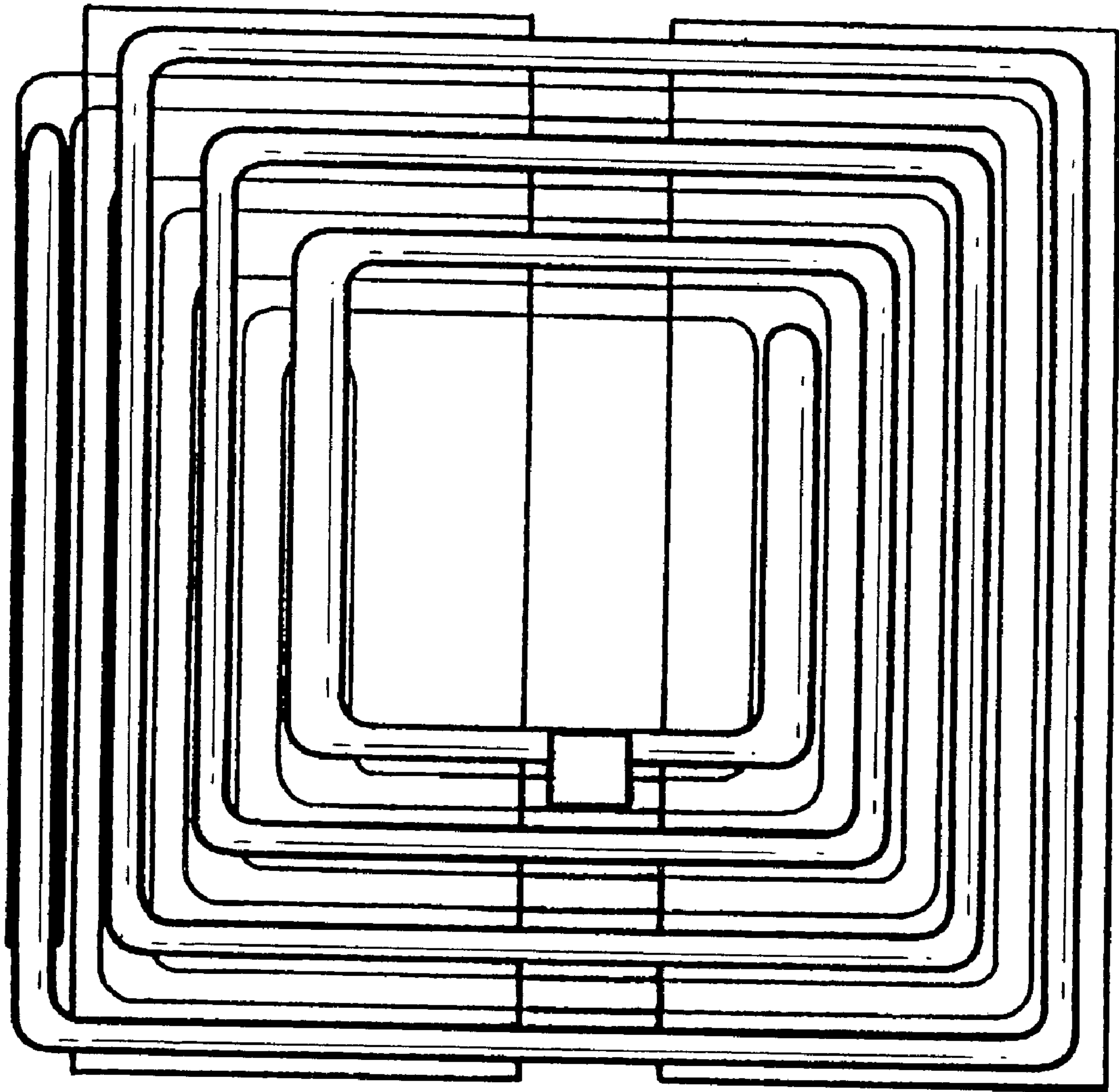


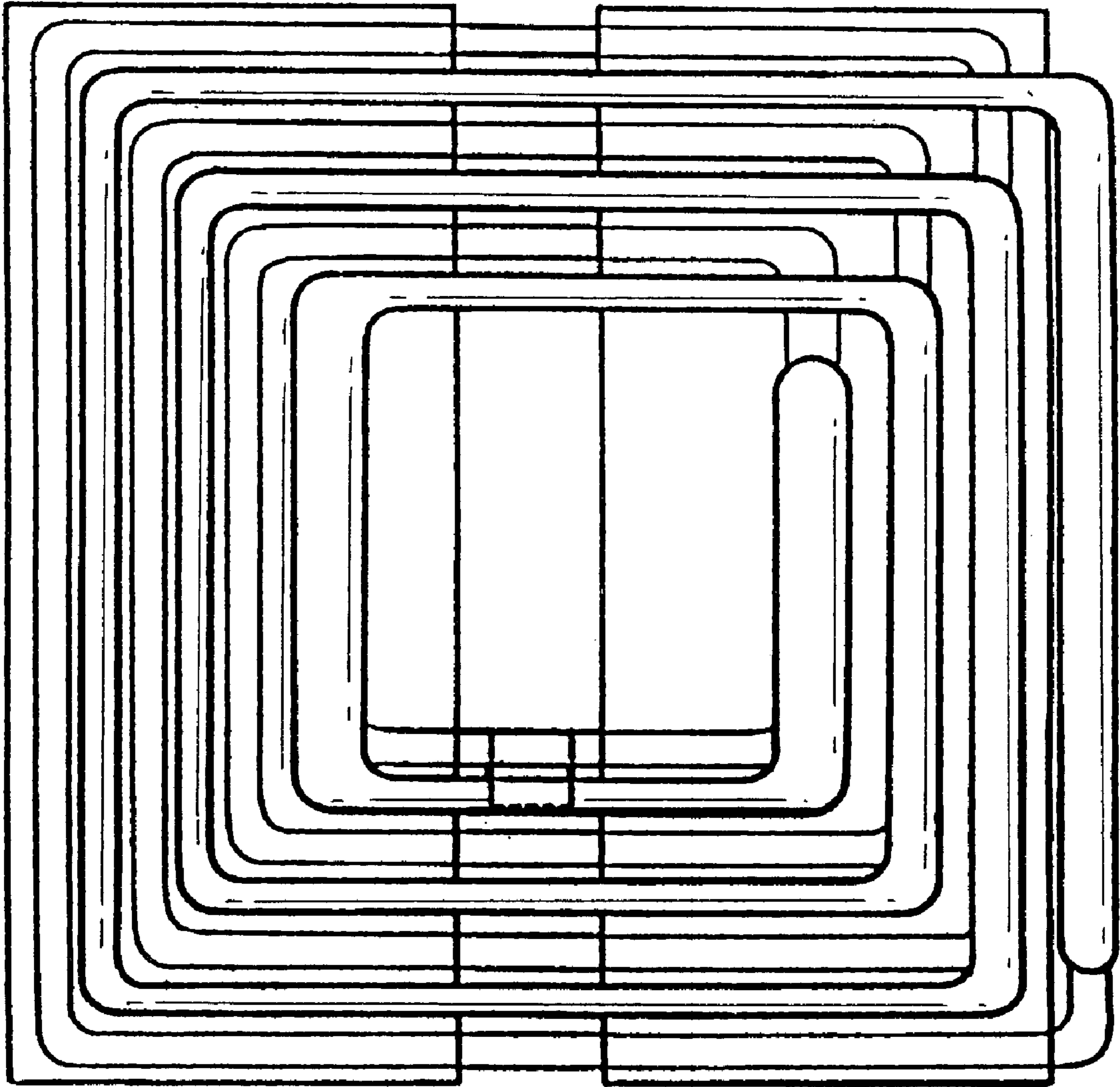
FIG. 9



*FIG. 10*



*FIG. 11*



*FIG. 12*