



US00D592193S

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

(10) **Patent No.:** **US D592,193 S**

(45) **Date of Patent:** **** May 12, 2009**

(54) **ANTENNA SUBSTRATE**

(75) Inventors: **Naoaki Utagawa**, Gunma (JP); **Minoru Arata**, Gunma (JP); **Hideaki Kanai**, Gunma (JP); **Takeshi Sampo**, Gunma (JP)

(73) Assignee: **Yokowo Co., Ltd.**, Tokyo (JP)

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

(21) Appl. No.: **29/300,071**

(22) Filed: **Feb. 19, 2008**

(30) **Foreign Application Priority Data**

Aug. 21, 2007 (JP) 2007-022528

(51) **LOC (9) Cl.** **14-03**

(52) **U.S. Cl.** **D14/230**

(58) **Field of Classification Search** D14/138, D14/230-238, 299, 358; D12/42, 43; 343/700 MS, 343/700 R-705, 711-713, 741, 748, 767, 343/795, 819, 840, 846, 866, 871-908; 455/90.2, 455/90.3, 91, 128, 269, 344, 347, 562.1
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 5,201,065 A * 4/1993 Niehenke 455/83
- 5,287,116 A * 2/1994 Iwasaki et al. 343/700 MS
- 5,661,494 A * 8/1997 Bondyopadhyay ... 343/700 MS
- 5,805,034 A * 9/1998 Evans et al. 333/204
- 6,906,670 B2 * 6/2005 Shi 343/702
- 7,212,163 B2 * 5/2007 Huang et al. 343/700 MS

- D581,910 S * 12/2008 Takisawa et al. D14/230
- D582,400 S * 12/2008 Takisawa et al. D14/230
- 7,471,173 B2 * 12/2008 Hidaka et al. 333/204
- 2003/0201938 A1 * 10/2003 Dening et al. 343/700 MS
- 2003/0201941 A1 * 10/2003 Aikawa et al. 343/700 MS
- 2004/0095278 A1 * 5/2004 Kanemoto et al. 343/700 MS
- 2005/0122266 A1 * 6/2005 Chang et al. 343/700 MS

* cited by examiner

Primary Examiner—T. Chase Nelson
Assistant Examiner—John Windmuller

(74) *Attorney, Agent, or Firm*—Morgan, Lewis & Bockius LLP

(57) **CLAIM**

The ornamental design for an antenna substrate, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the front, right and top of an antenna substrate showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a top plan view thereof;

FIG. 5 is a bottom view thereof;

FIG. 6 is a left side view thereof;

FIG. 7 is a right side view thereof; and,

FIG. 8 is a perspective reference view thereof.

The broken line showing of a connector in FIG. 8 depicts environment only and forms no part of the claimed design.

1 Claim, 6 Drawing Sheets

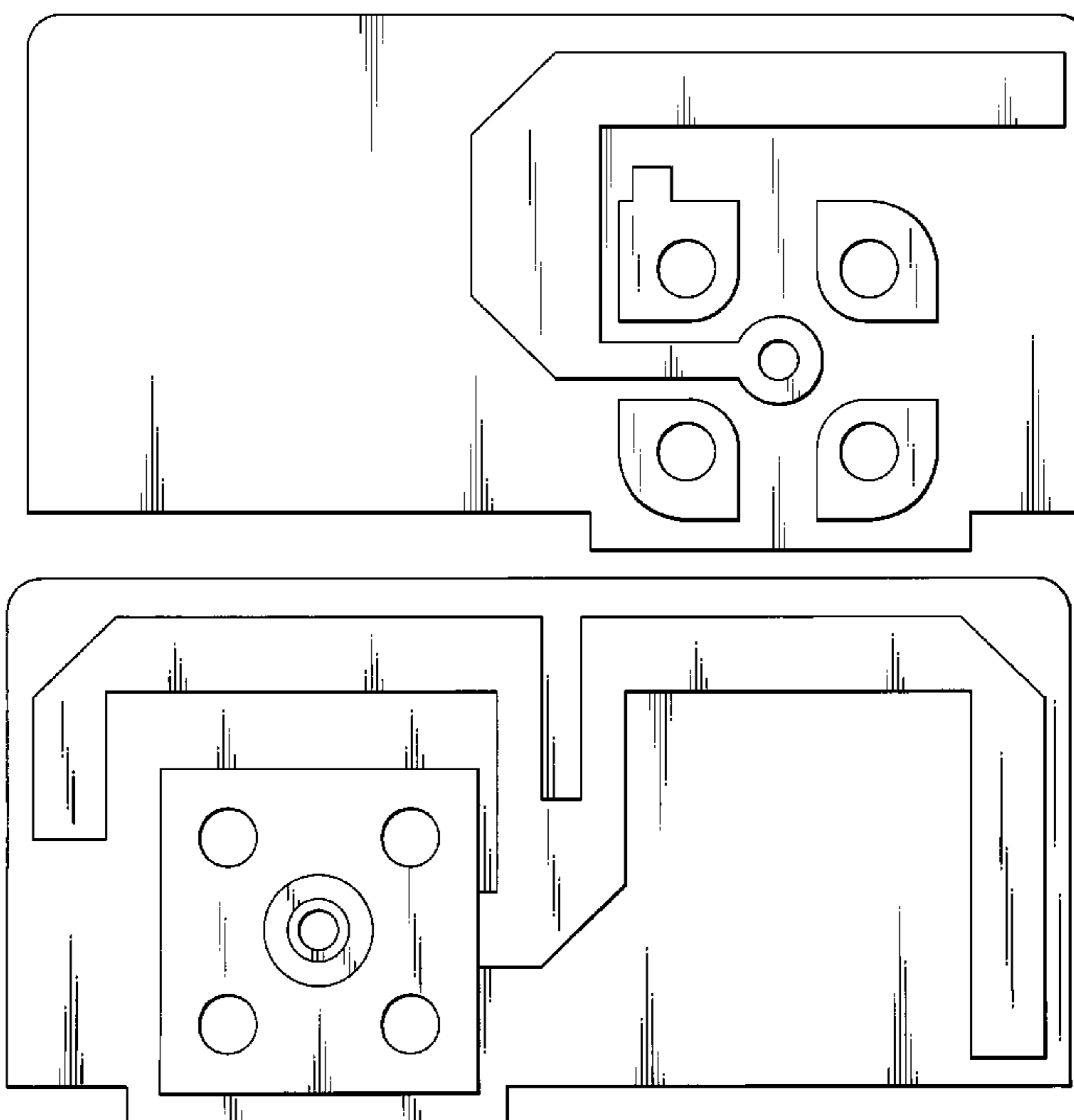


FIG.1

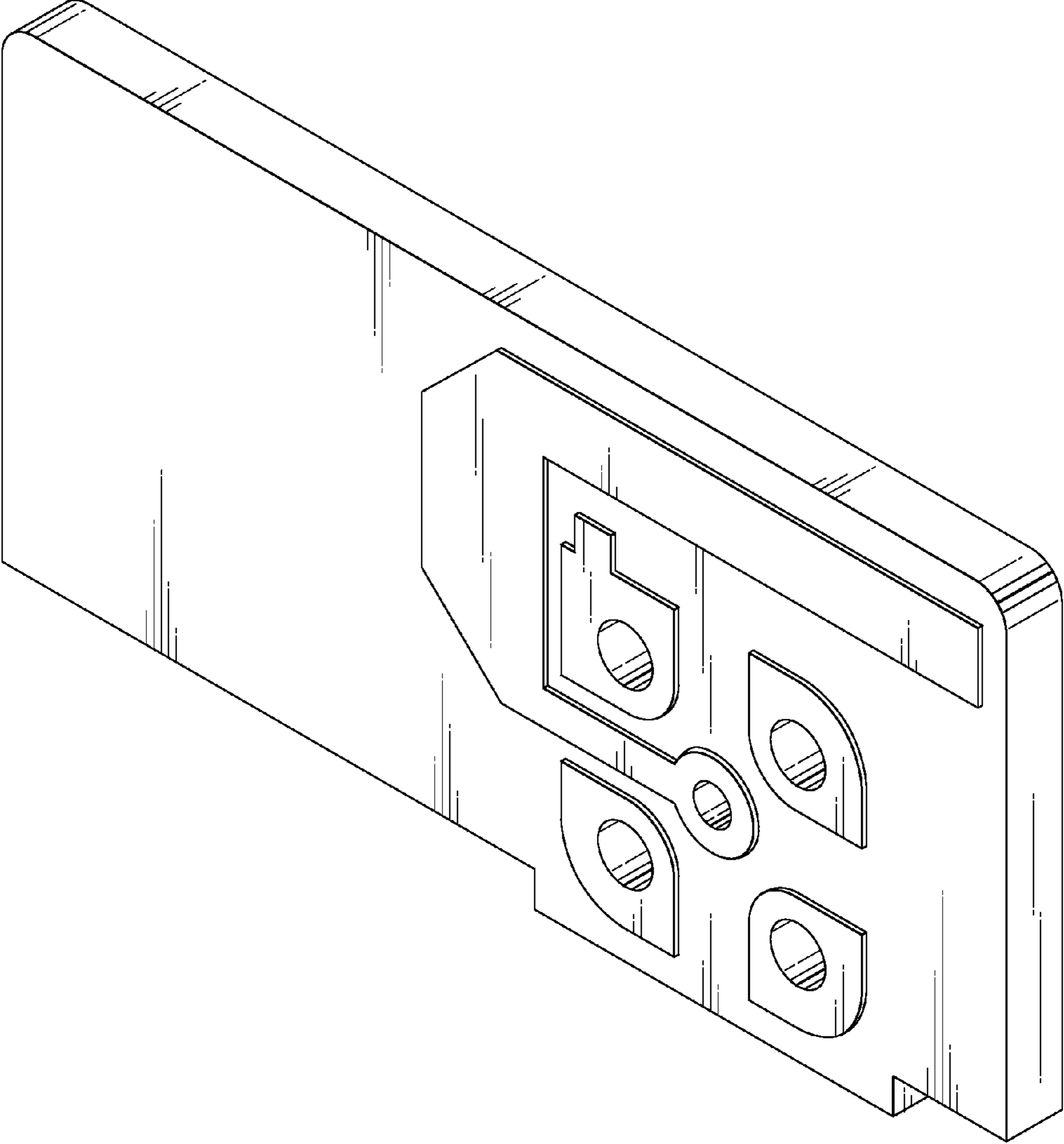


FIG.2

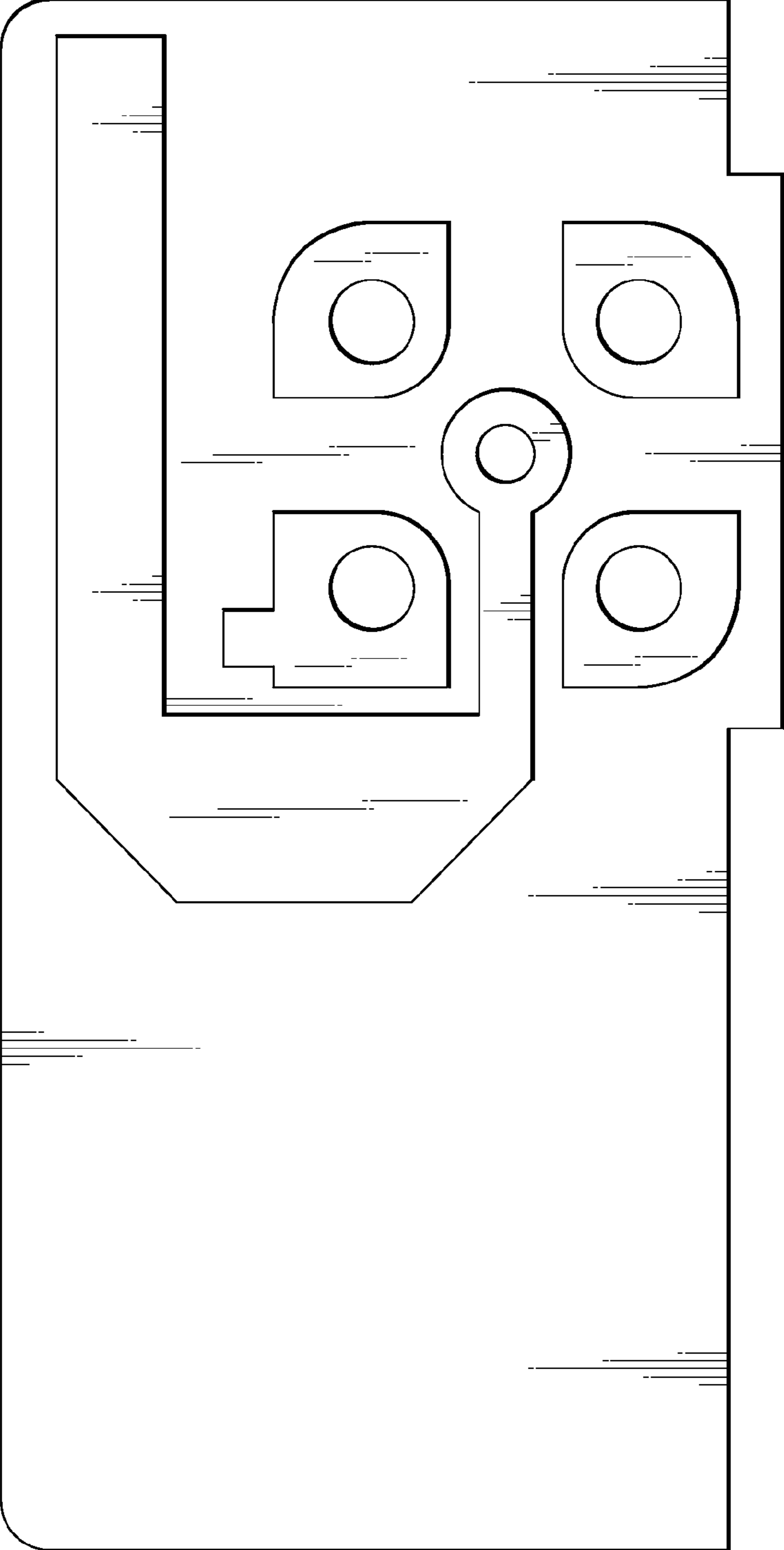


FIG.3

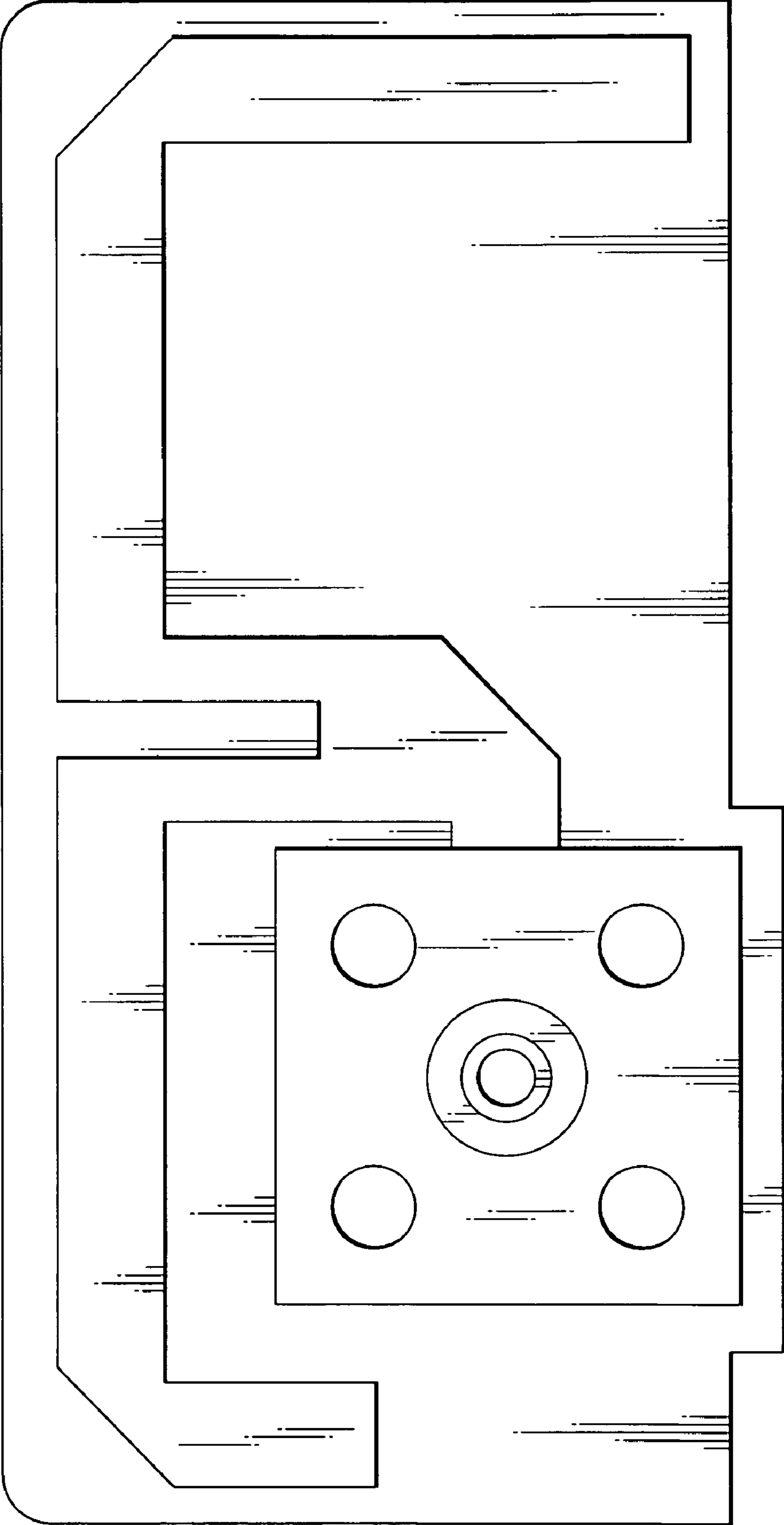


FIG.4

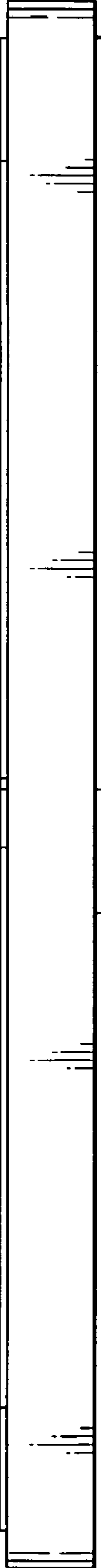


FIG.5

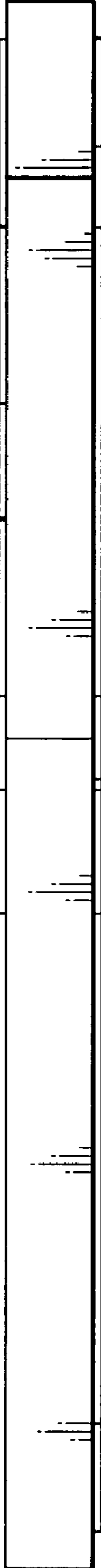


FIG.6



FIG.7

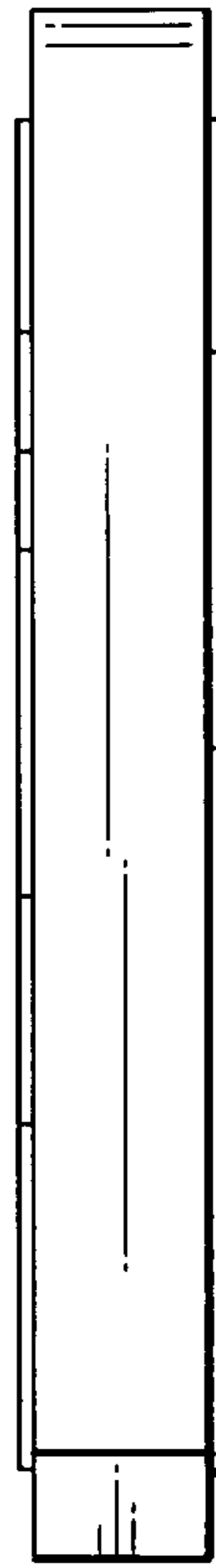


FIG.8

