



US00D799458S

(12) **United States Design Patent** (10) **Patent No.:** **US D799,458 S**
Chang et al. (45) **Date of Patent:** **** Oct. 10, 2017**

- (54) **ANTENNA**
- (71) Applicant: **Airgain Incorporated**, San Diego, CA (US)
- (72) Inventors: **Wei Chang**, Zhang Jia Gang (CN); **Meng Zhang**, Zhang Jia Gang (CN)
- (73) Assignee: **Airgain Incorporated**, San Diego, CA (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/570,571**
- (22) Filed: **Jul. 8, 2016**
- (51) **LOC (10) Cl.** **14-03**
- (52) **U.S. Cl.**
USPC **D14/230**
- (58) **Field of Classification Search**
USPC ... D12/124, 137, 138, 230–238.1, 299, 358;
D13/168; D14/42, 43
CPC H01L 33/48; H01L 23/02; H01Q 13/10;
H05K 11/00; H04B 1/034
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

7,061,437 B2	6/2006	Lin et al.	
7,148,849 B2	12/2006	Lin	
7,215,296 B2	5/2007	Abramov et al.	
D546,821 S	7/2007	Oliver	
D549,696 S	8/2007	Oshima et al.	
7,333,067 B2	2/2008	Hung et al.	
7,336,959 B2	2/2008	Khitrik et al.	
D573,589 S	7/2008	Montgomery et al.	
7,405,704 B1	7/2008	Lin et al.	
7,477,195 B2	1/2009	Vance	
D588,115 S *	3/2009	Yoshioka	D14/230
D592,195 S	5/2009	Wu et al.	

7,570,215 B2	8/2009	Abramov et al.	
D599,334 S	9/2009	Chiang	
D606,053 S	12/2009	Wu et al.	
D607,442 S	1/2010	Su et al.	
D608,769 S	1/2010	Bufe	
D612,368 S	3/2010	Yang et al.	
7,705,783 B2	4/2010	Rao et al.	
7,729,662 B2	6/2010	Abramov et al.	
D621,819 S	8/2010	Tsai et al.	
7,843,390 B2	11/2010	Liu	
D633,483 S	3/2011	Su et al.	
D635,127 S	3/2011	Tsai et al.	
7,907,971 B2	3/2011	Salo et al.	
D635,560 S	4/2011	Tsai et al.	
D635,963 S	4/2011	Podduturi	
D635,964 S	4/2011	Podduturi	
D635,965 S	4/2011	Mi et al.	
D636,382 S	4/2011	Podduturi	
7,965,242 B2	6/2011	Abramov et al.	
D649,962 S	12/2011	Tseng et al.	
D650,370 S *	12/2011	Huang	D14/230
D651,198 S	12/2011	Mi et al.	

(Continued)

Primary Examiner — John Windmuller
Assistant Examiner — Benjamin Weeks
(74) *Attorney, Agent, or Firm* — Clause Eight IPS;
Michael Catania

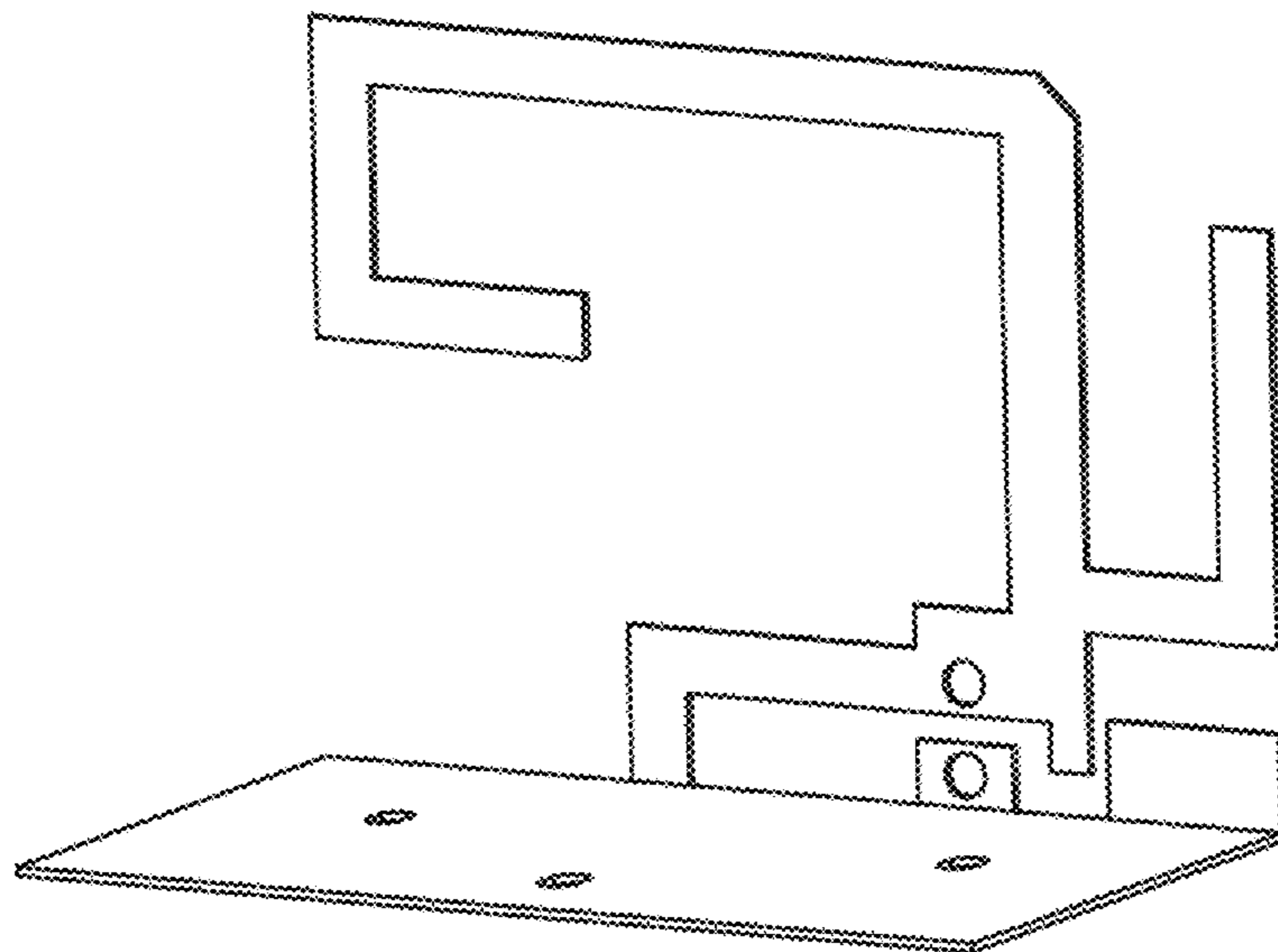
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a top perspective view of a preferred embodiment of an antenna.
FIG. 2 is a front elevation view of the antenna of FIG. 1.
FIG. 3 is a bottom plan view of the antenna of FIG. 1; and,
FIG. 4 is a side elevation view of the antenna of FIG. 1.
The broken lines are for illustration purposes only and form no part of the claimed invention.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D654,059 S	2/2012	Mi et al.	D706,751 S	6/2014	Chang et al.
D654,060 S	2/2012	Ko et al.	D708,602 S	7/2014	Gosalia et al.
D654,062 S *	2/2012	Ko D14/230	D709,053 S	7/2014	Chang et al.
D658,639 S	5/2012	Huang et al.	D710,832 S	8/2014	Yang
D659,129 S	5/2012	Mi et al.	D710,833 S	8/2014	Zheng et al.
D659,685 S	5/2012	Huang et al.	D715,780 S *	10/2014	Forster D14/230
D659,688 S	5/2012	Huang et al.	8,854,265 B1	10/2014	Yang et al.
8,175,036 B2	5/2012	Visuri et al.	D716,775 S	11/2014	Bidermann
8,184,601 B2	5/2012	Abramov et al.	D719,937 S *	12/2014	Forster D14/230
D662,916 S	7/2012	Huang et al.	D729,780 S *	5/2015	Koskelainen D14/230
8,248,970 B2	8/2012	Abramov et al.	D741,301 S *	10/2015	He D14/230
D671,097 S	11/2012	Mi et al.	D750,049 S *	2/2016	Podduturi D14/230
8,310,402 B2	11/2012	Yang	D768,116 S *	10/2016	Zheng D14/230
D676,429 S	2/2013	Gosalia et al.	D772,849 S *	11/2016	Chen D14/230
D678,255 S	3/2013	Ko et al.	D784,303 S *	4/2017	Zheng D14/230
8,423,084 B2	4/2013	Abramov et al.	2002/0003499 A1	1/2002	Kouarn et al.
D684,565 S	6/2013	Wei	2004/0222936 A1	11/2004	Hung et al.
D685,352 S	7/2013	Wei	2005/0073462 A1	4/2005	Lin et al.
D685,772 S	7/2013	Zheng et al.	2005/0190108 A1	9/2005	Lin et al.
D686,600 S	7/2013	Yang	2006/0208900 A1	9/2006	Tavassoli Hozouri
D689,474 S	9/2013	Yang et al.	2007/0030203 A1	2/2007	Tsai et al.
D692,870 S	11/2013	He	2008/0150829 A1	6/2008	Lin et al.
D694,738 S	12/2013	Yang	2009/0002244 A1	1/2009	Woo
D695,279 S	12/2013	Yang et al.	2009/0058739 A1	3/2009	Konishi
D695,280 S	12/2013	Yang et al.	2009/0135072 A1	5/2009	Ke et al.
D703,195 S	4/2014	Zheng	2009/0262028 A1	10/2009	Murnbru et al.
D703,196 S	4/2014	Zheng	2010/0188297 A1	7/2010	Chen et al.
D706,247 S	6/2014	Zheng et al.	2010/0309067 A1	12/2010	Tsou et al.
D706,750 S	6/2014	Bringuier	2011/0006950 A1	1/2011	Park et al.
			2012/0038514 A1	2/2012	Bang
			2012/0229348 A1	9/2012	Chiang
			2012/0242546 A1	9/2012	Hu et al.

* cited by examiner

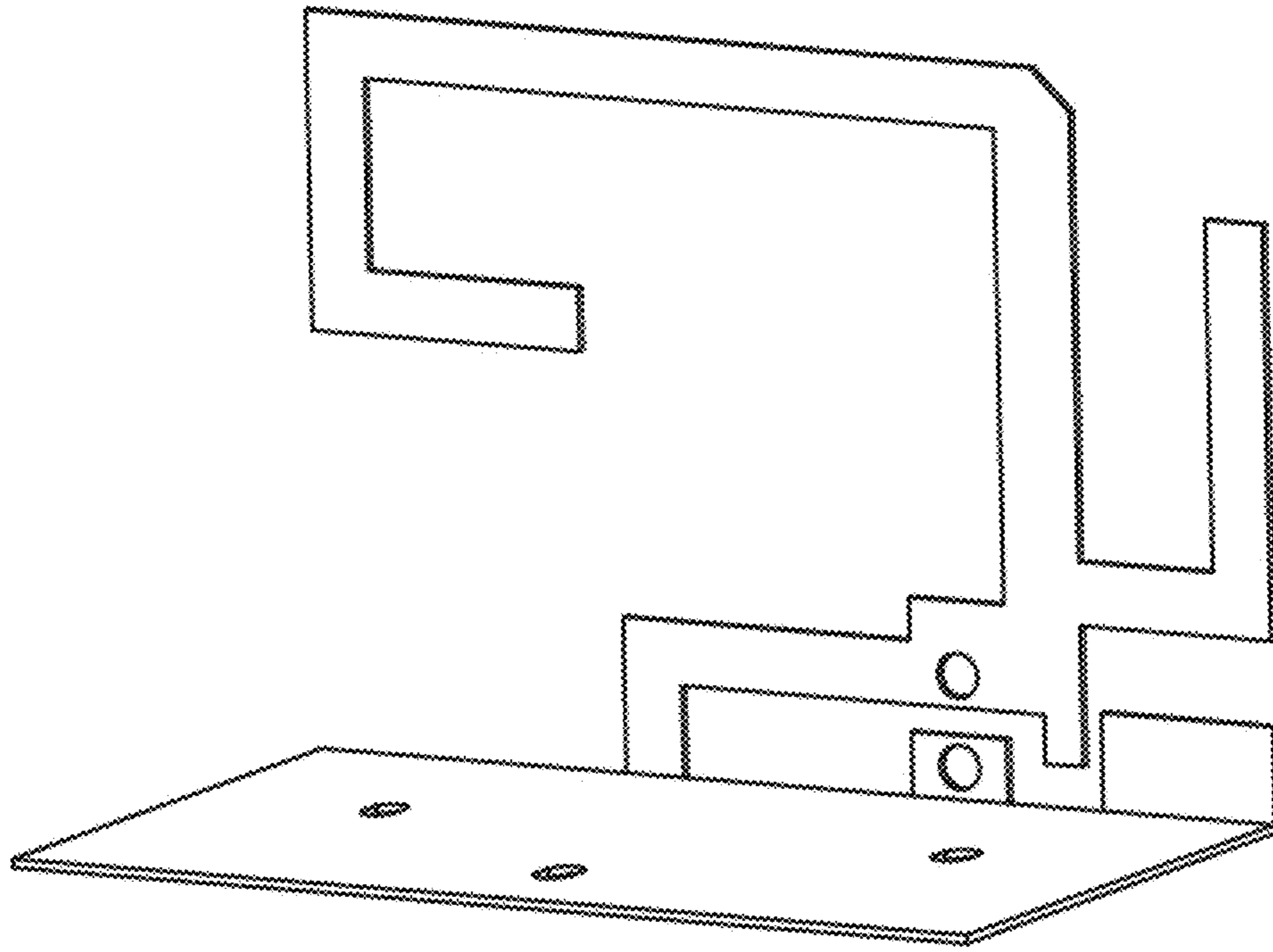


FIG. 1

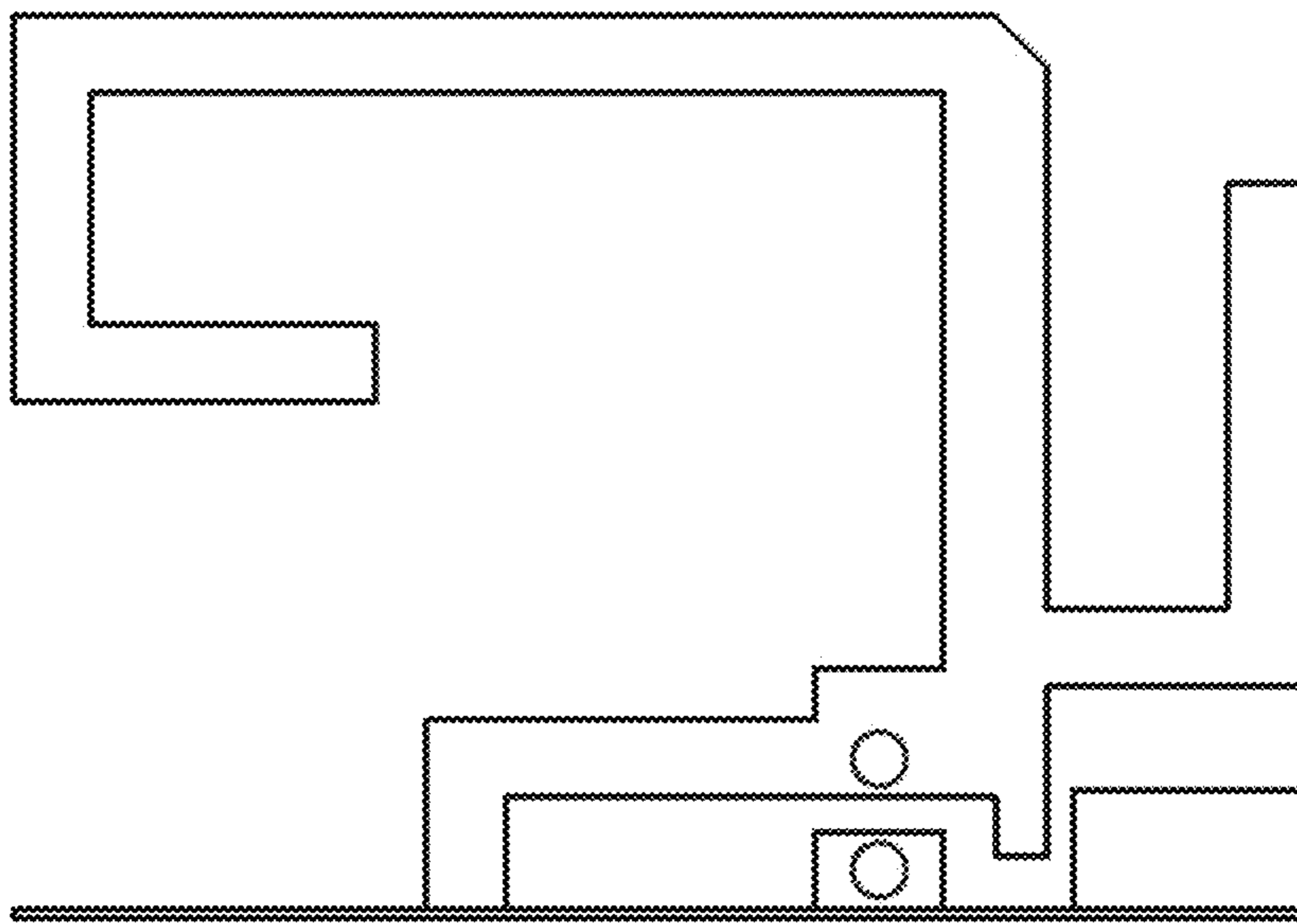


FIG. 2

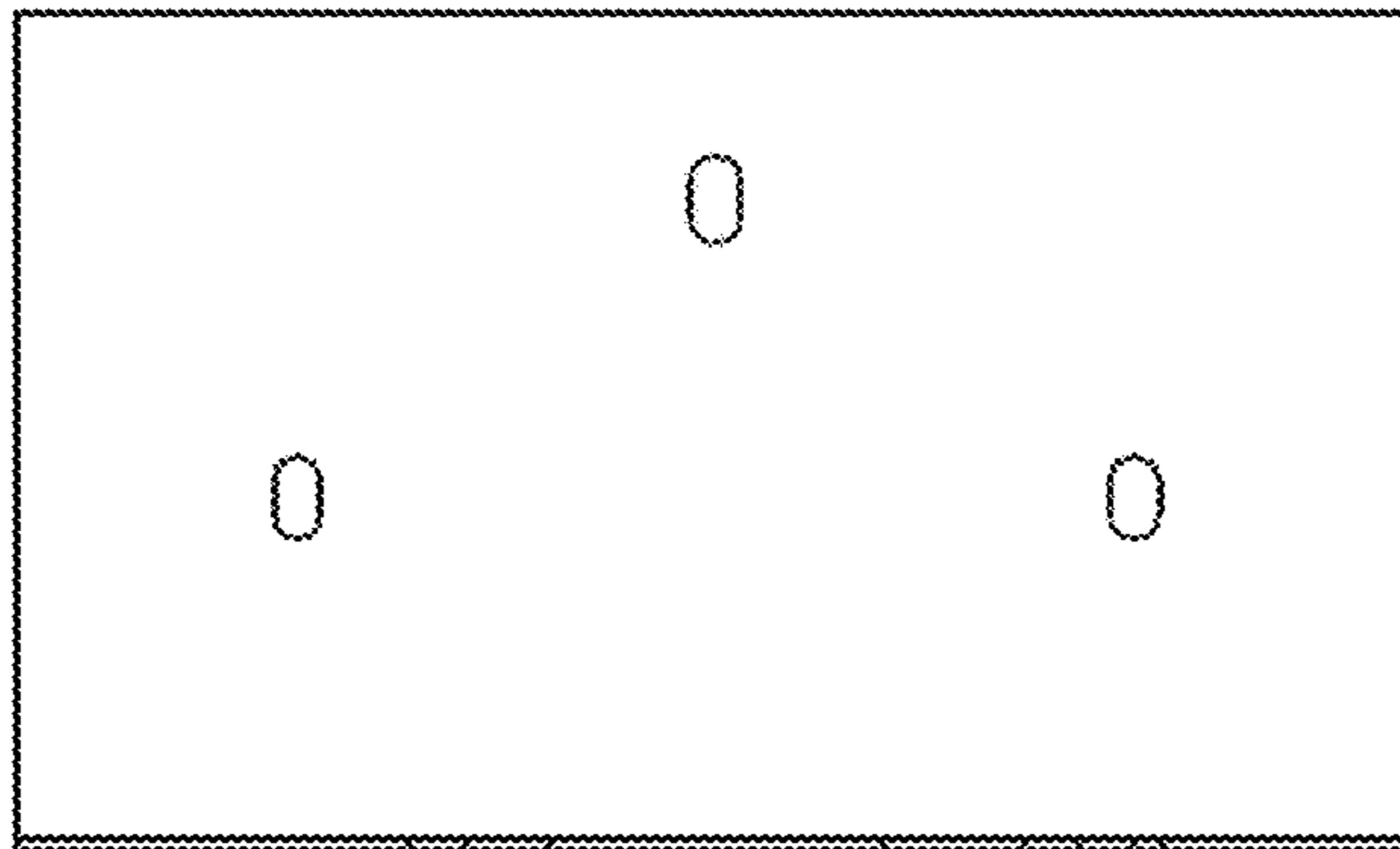


FIG. 3

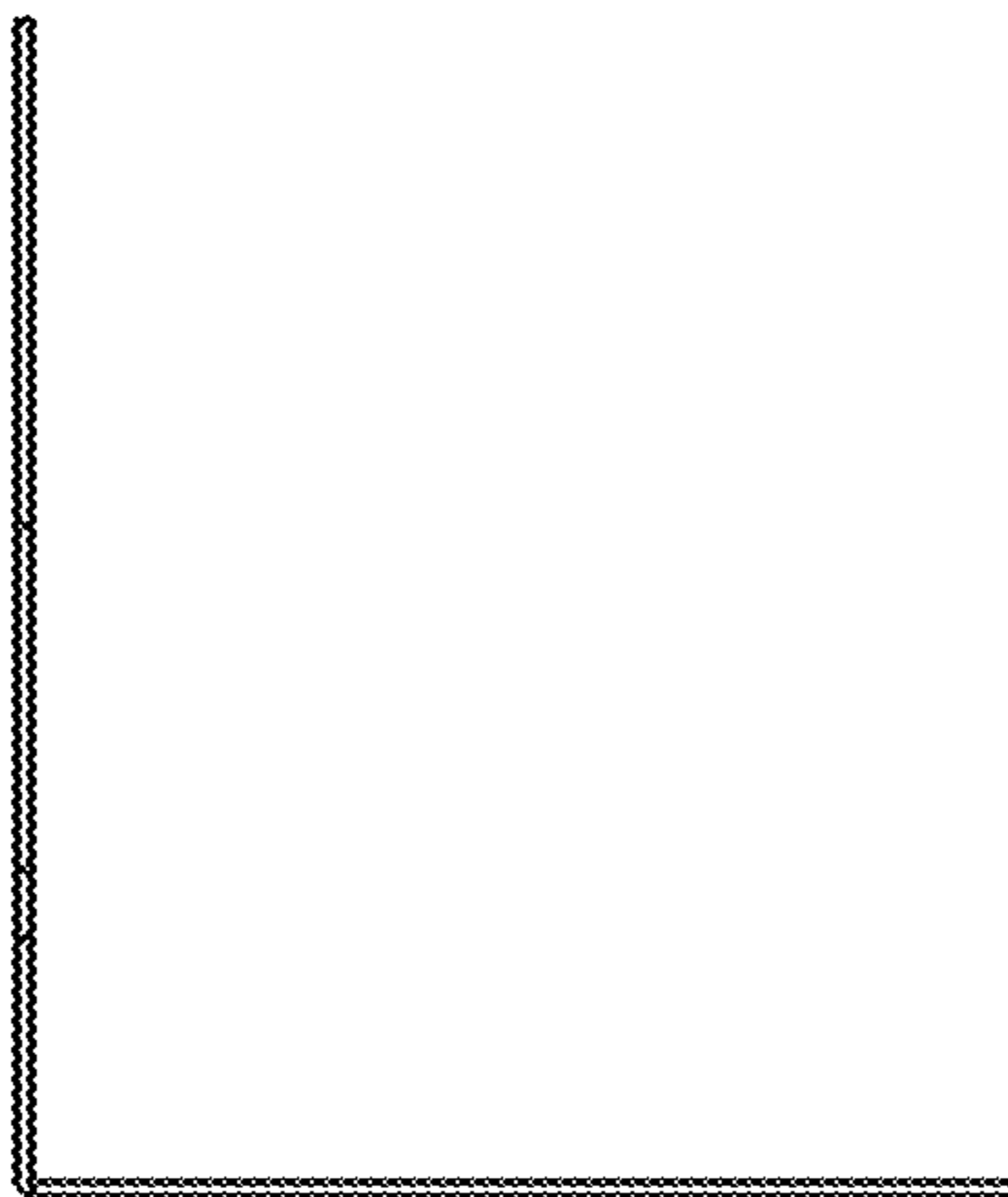


FIG. 4