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

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- (54) **ANTENNA**
- (71) Applicant: **Airgain, Inc.**, Carlsbad, CA (US)
- (72) Inventor: **Xiao Ping Yang**, Carlsbad, CA (US)
- (73) Assignee: **Airgain, Inc.**, San Diego, CA (US)
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- (52) **U.S. Cl.**  
USPC ..... **D14/230; D14/238**
- (58) **Field of Classification Search**  
USPC ..... D14/138, 230–238, 299, 358; D12/42,  
D12/43; 343/700 MS, 700 R–705, 711–713,  
343/735, 736, 741, 748, 767, 795, 819, 840,  
343/846, 866, 871–908; 455/90.2, 90.3, 91,  
455/128, 269, 344, 347, 562.1  
See application file for complete search history.

D599,334 S	9/2009	Chiang	
D606,052 S *	12/2009	Noro et al.	..... D14/230
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.	
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.	
D635,560 S	4/2011	Tsai et al.	
D635,963 S	4/2011	Poddaturi	
D635,964 S	4/2011	Poddaturi	
D635,965 S	4/2011	Mi et al.	
D636,382 S	4/2011	Poddaturi	
D649,962 S	12/2011	Tseng et al.	
D651,198 S	12/2011	Mi et al.	

(Continued)

*Primary Examiner* — John Windmuller

(74) *Attorney, Agent, or Firm* — Clause Eight IPS; Michael Catania

(57) **CLAIM**

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

(56) **References Cited**

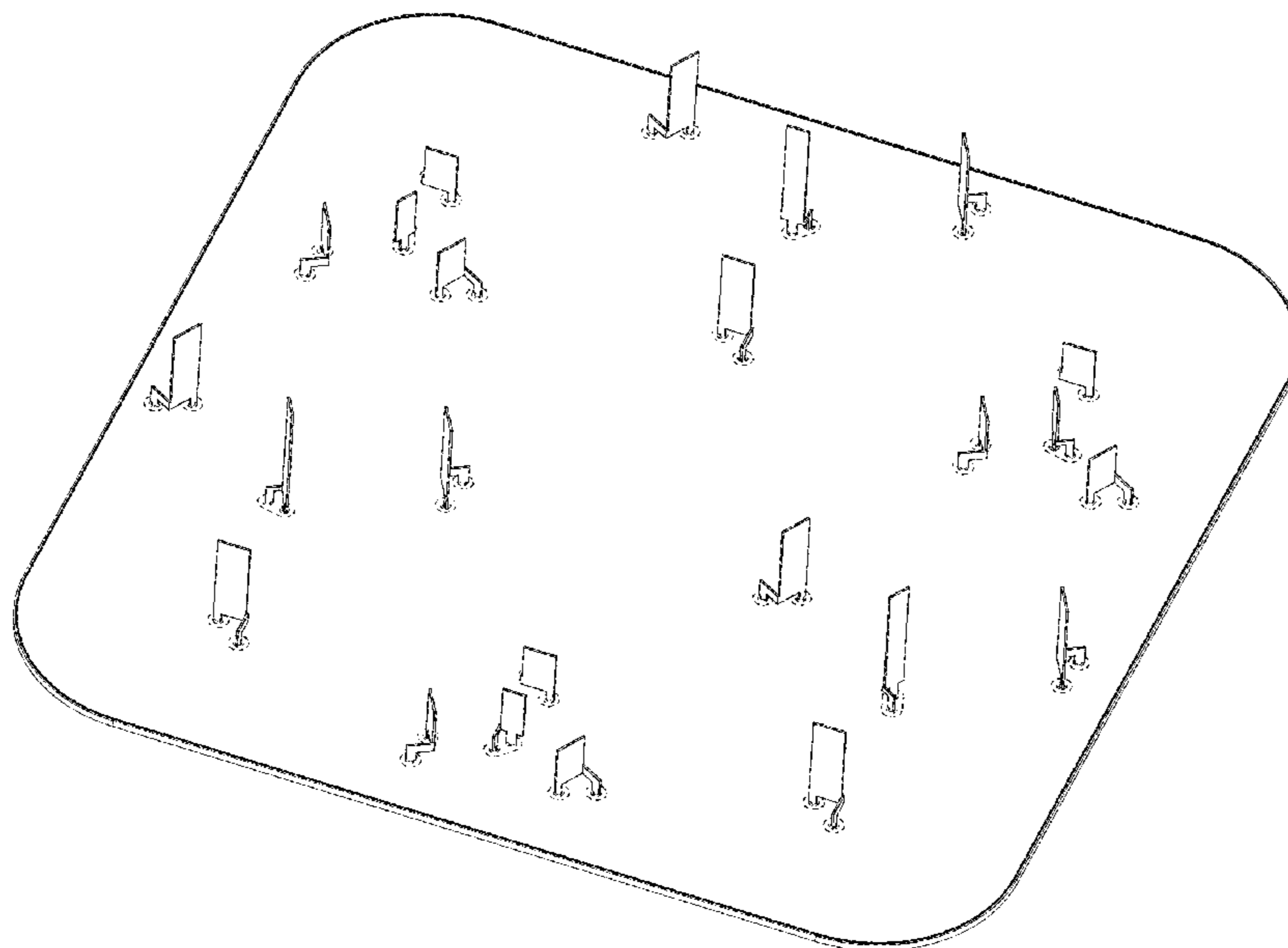
U.S. PATENT DOCUMENTS

D481,029 S *	10/2003	Noro	..... D14/230
D492,671 S *	7/2004	Shibano et al.	..... D14/230
7,061,437 B2	6/2006	Lin et al.	
7,148,849 B2	12/2006	Lin	
D546,821 S	7/2007	Oliver	
D549,696 S	8/2007	Oshima et al.	
7,333,067 B2	2/2008	Hung et al.	
D573,589 S	7/2008	Montgomery et al.	
7,405,704 B1	7/2008	Lin et al.	
D582,400 S *	12/2008	Takisawa et al.	..... D14/230
7,477,195 B2	1/2009	Vance	
D589,034 S *	3/2009	Ueda et al.	..... D14/230
D592,195 S	5/2009	Wu et al.	

**DESCRIPTION**

FIG. 1 is a bottom plan view of an antenna.  
 FIG. 2 is a top plan view of the antenna of FIG. 1.  
 FIG. 3 is a top perspective view of the antenna of FIG. 1.  
 FIG. 4 is a front view of the antenna of FIG. 1.  
 FIG. 5 is a rear view of the antenna of FIG. 1.  
 FIG. 6 is a left side view of the antenna of FIG. 1; and,  
 FIG. 7 is a right side view of the antenna of FIG. 1.  
 The broken line showing is for illustrative purposes only and forms no part of the claimed design.

**1 Claim, 5 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D654,059 S	2/2012	Mi et al.	2006/0208900 A1	9/2006	Tavassoli Hozouri
D654,060 S	2/2012	Ko et al.	2007/0030203 A1	2/2007	Tsai et al.
D658,639 S	5/2012	Huang et al.	2008/0150829 A1	6/2008	Lin et al.
D659,129 S	5/2012	Mi et al.	2009/0002244 A1	1/2009	Woo
D659,685 S	5/2012	Huang et al.	2009/0058739 A1	3/2009	Konishi
D659,688 S	5/2012	Huang et al.	2009/0135072 A1	5/2009	Ke et al.
D662,916 S	7/2012	Huang et al.	2009/0262028 A1	10/2009	Mumbru et al.
D671,097 S	11/2012	Mi et al.	2010/0188297 A1	7/2010	Chen et al.
D676,429 S	2/2013	Gosalia et al.	2010/0309067 A1	12/2010	Tsou et al.
D678,255 S	3/2013	Ko et al.	2011/0006950 A1	1/2011	Park et al.
D684,565 S	6/2013	Wei	2012/0038514 A1	2/2012	Bang
D685,772 S	7/2013	Zheng et al.	2012/0229342 A1*	9/2012	Maeda et al. .... 343/700 MS
2002/0003499 A1	1/2002	Kouam et al.	2012/0229348 A1	9/2012	Chiang
2004/0222936 A1	11/2004	Hung et al.	2012/0242546 A1	9/2012	Hu et al.
2005/0073462 A1	4/2005	Lin et al.	2012/0287000 A1*	11/2012	Ando et al. .... 343/700 MS
2005/0190108 A1	9/2005	Lin et al.	2013/0127669 A1*	5/2013	Han et al. .... 343/700 MS
			2013/0176177 A1*	7/2013	Cetiner et al. .... 343/700 MS
			2013/0187830 A1*	7/2013	Warnick et al. .... 343/893

\* cited by examiner

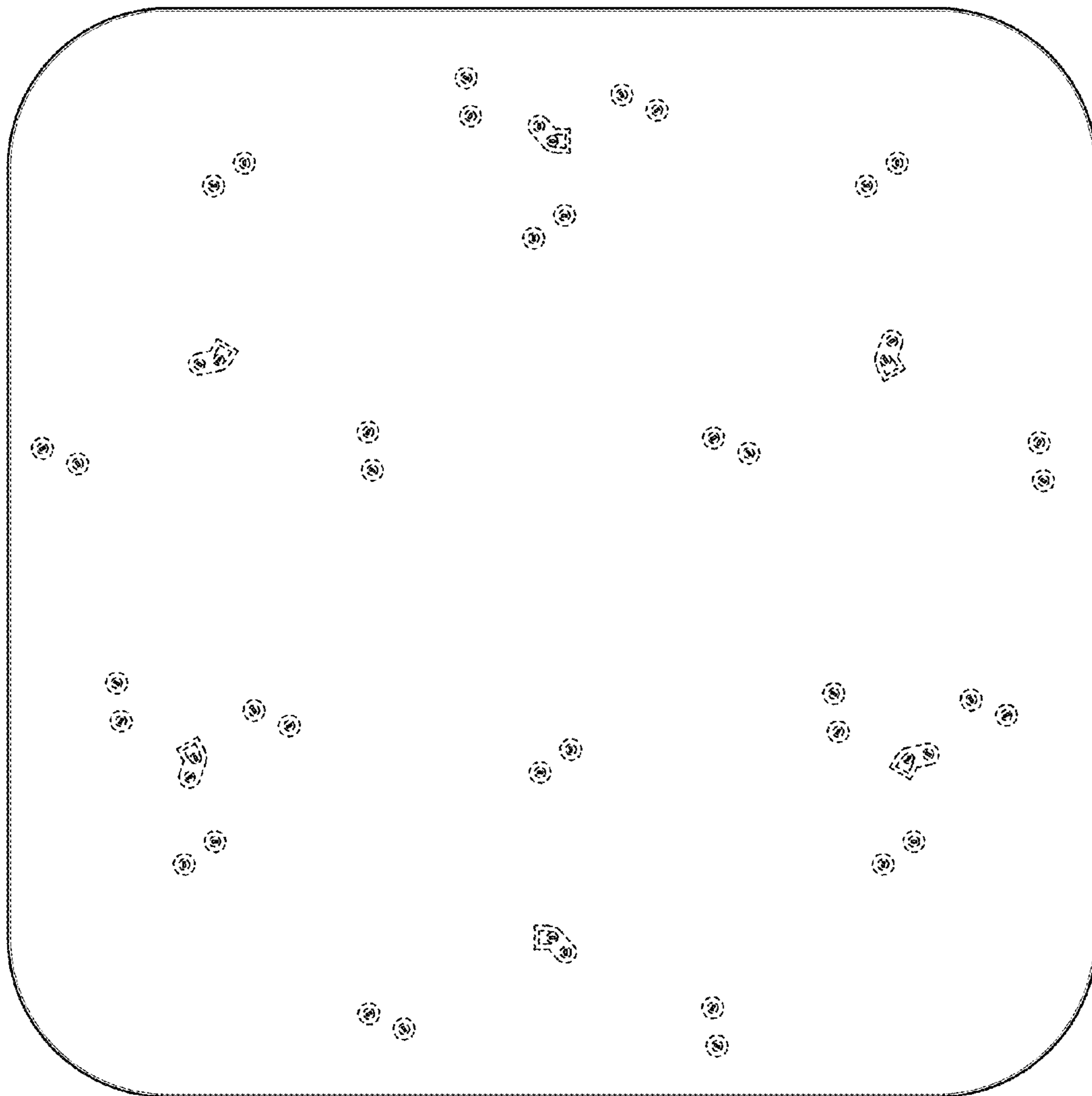


FIG. 1

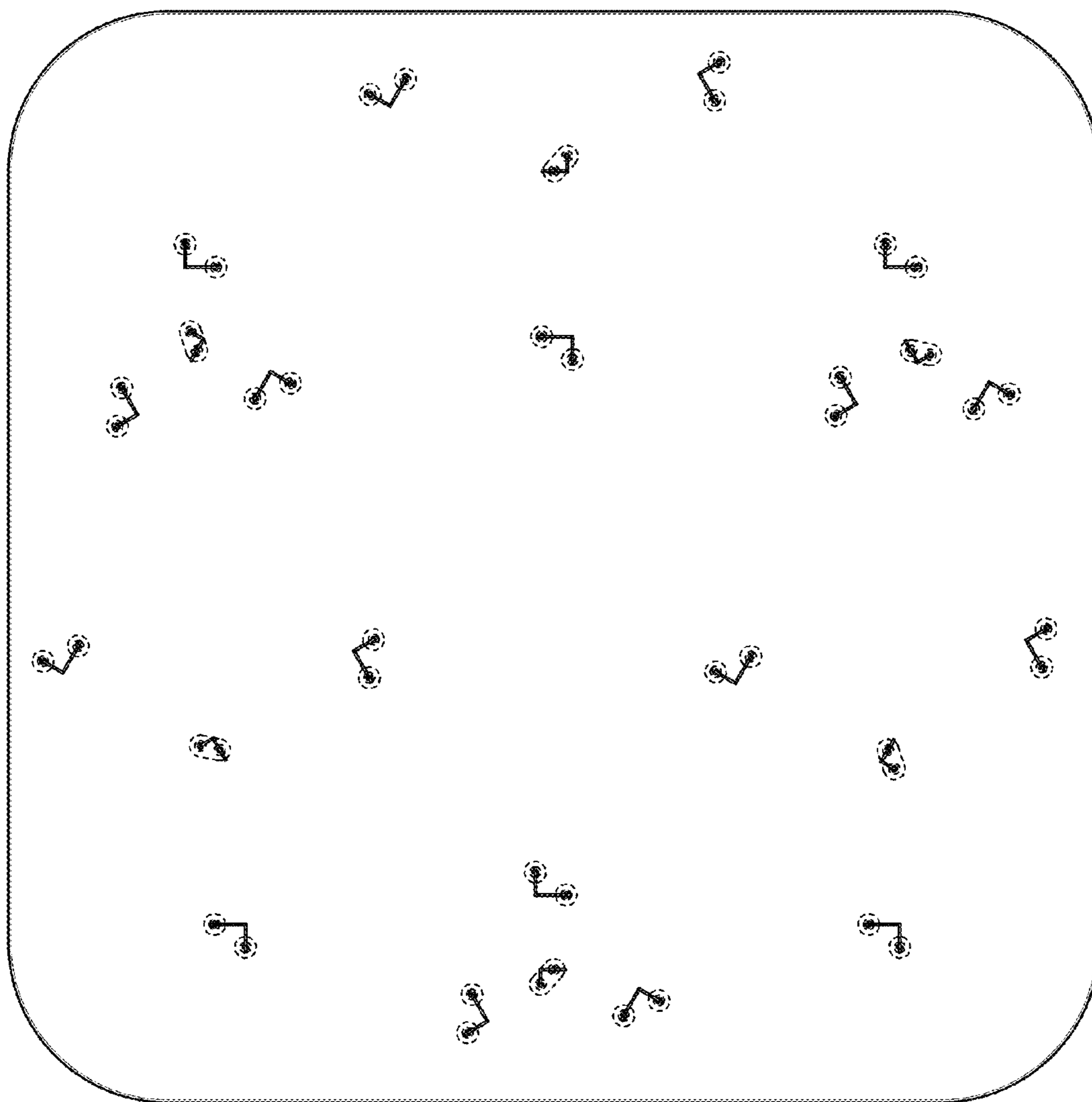


FIG. 2

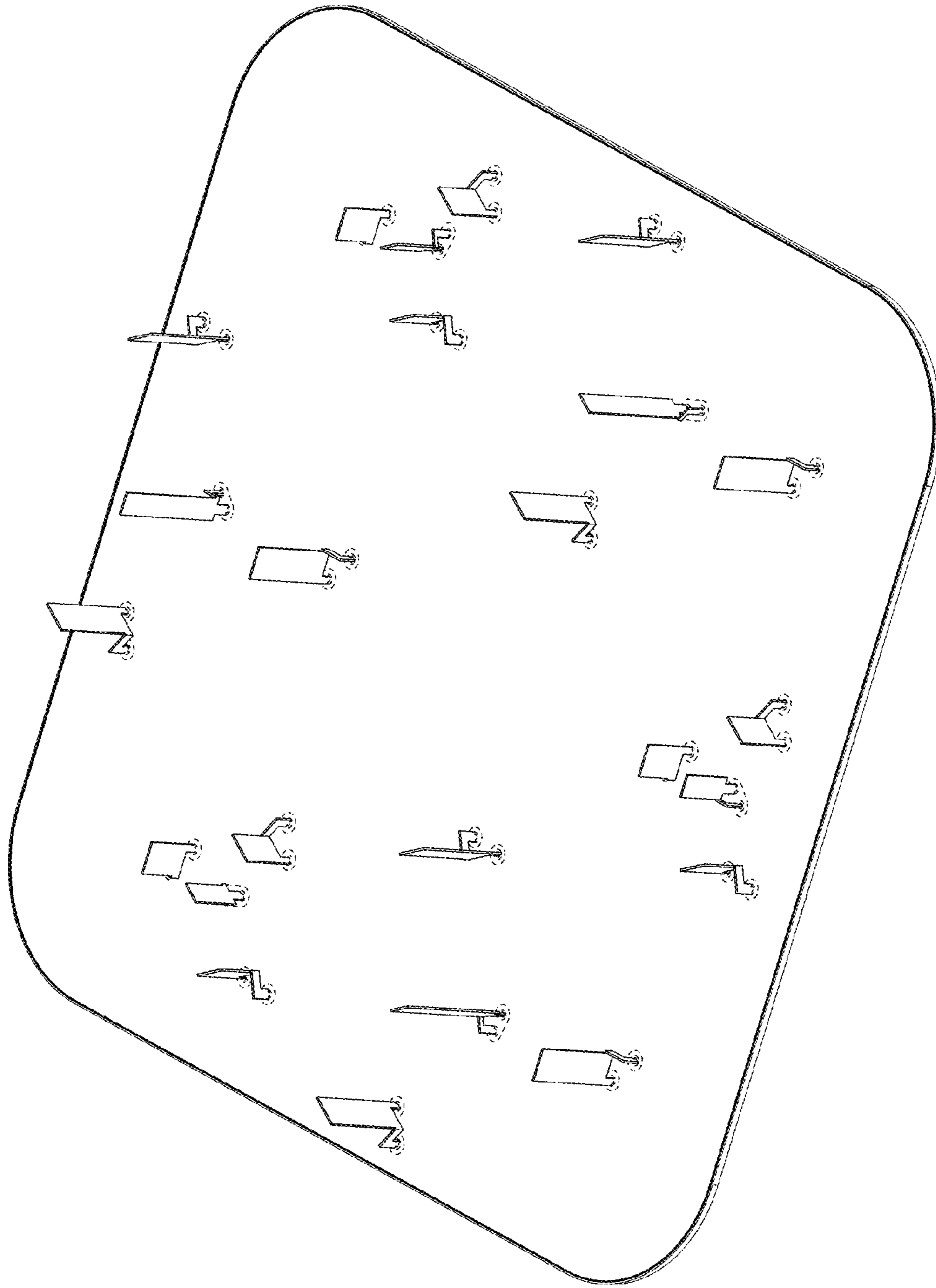


FIG. 3

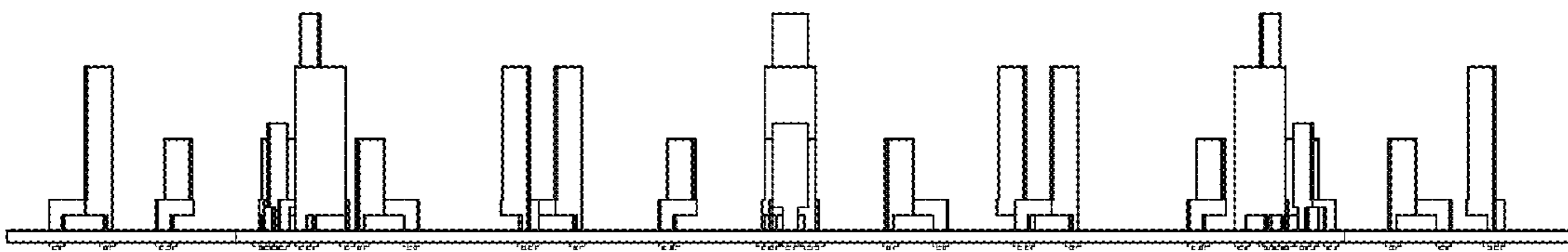


FIG. 4

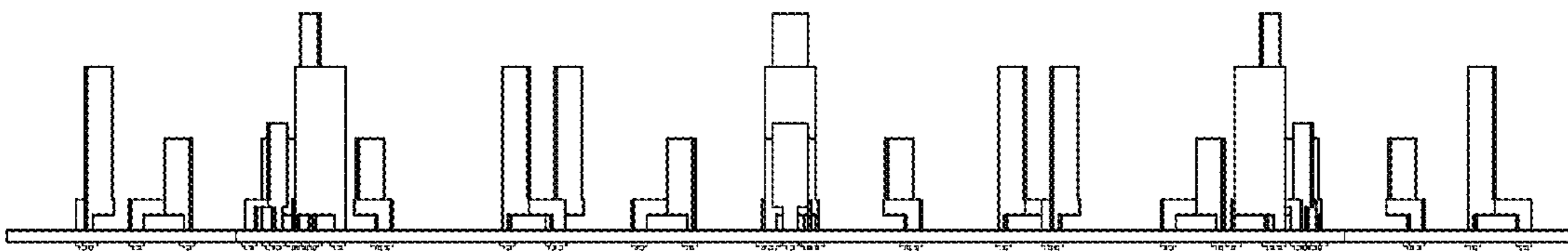


FIG. 5

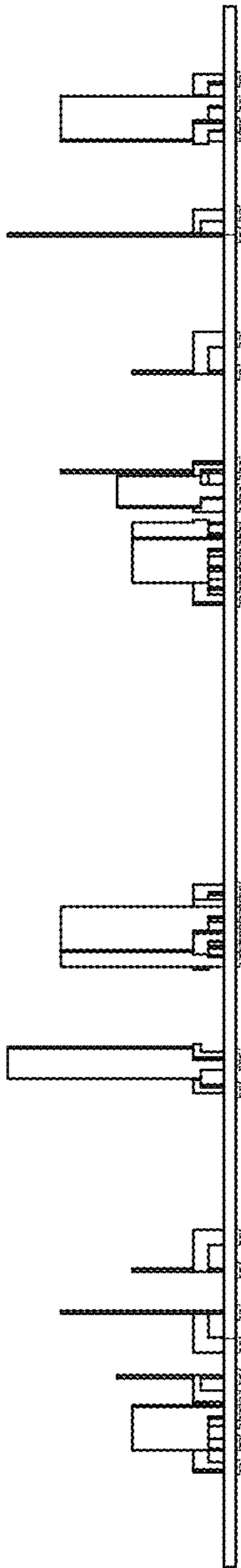


FIG. 6

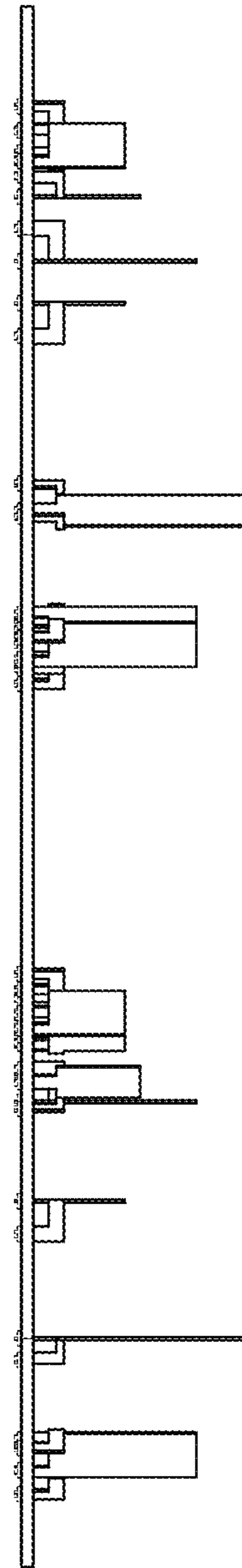


FIG. 7