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**Yang et al.**

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(54) **ANTENNA**

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

(52) **U.S. Cl.**

USPC ..... **D14/230**

(58) **Field of Classification Search**

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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; 333/193,  
333/195

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,563,616 A \* 10/1996 Dempsey et al. .... 343/753  
7,050,013 B2 \* 5/2006 Kim et al. .... 343/770  
7,061,437 B2 6/2006 Lin et al.  
7,123,207 B2 \* 10/2006 Yazdandoost et al. .... 343/795  
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.  
7,388,553 B2 \* 6/2008 Yuanzhu ..... 343/770  
D573,589 S 7/2008 Montgomery et al.

7,405,704 B1 7/2008 Lin et al.  
7,477,195 B2 1/2009 Vance  
7,486,249 B2 \* 2/2009 Fujita et al. .... 343/795  
D587,693 S \* 3/2009 Ohshima ..... D14/230  
D592,195 S 5/2009 Wu et al.  
D599,334 S 9/2009 Chiang  
D603,851 S \* 11/2009 Montgomery ..... D14/230  
D604,275 S \* 11/2009 Norris 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.  
D635,126 S \* 3/2011 Tsai et al. .... D14/230  
D635,127 S \* 3/2011 Tsai et al. .... D14/230  
D635,560 S 4/2011 Tsai et al.  
D635,963 S 4/2011 Podduturi

(Continued)

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(57)

**CLAIM**

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

**DESCRIPTION**

FIG. 1 is a top plan view of an antenna with broken lines  
showing a cover.

FIG. 2 is a side plan view of the antenna of FIG. 1.

FIG. 3 is a top perspective view of the antenna of FIG. 1.

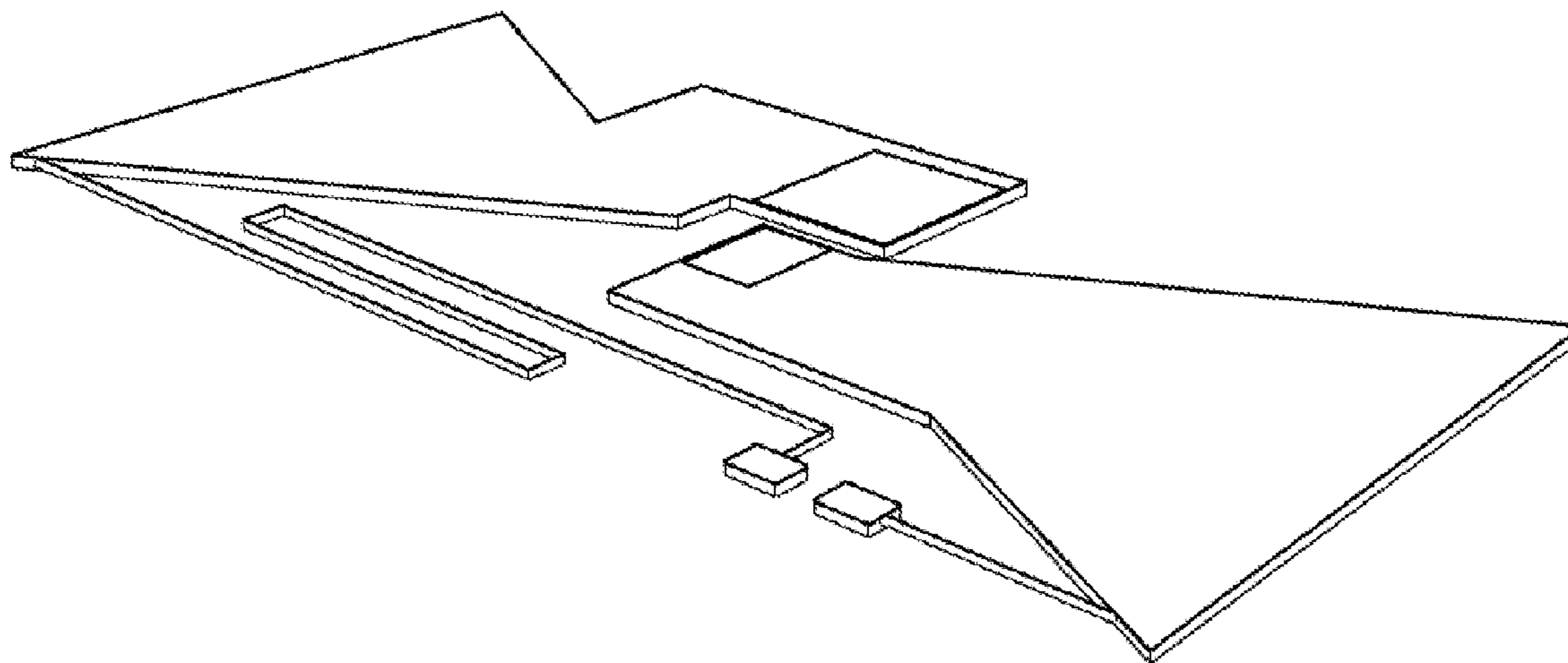
FIG. 4 is a bottom plan view of the antenna of FIG. 1.

FIG. 5 is a side view of the antenna of FIG. 1; and,

FIG. 6 is a bottom perspective 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, 2 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D635,964 S	4/2011	Podduturi	2003/0189522 A1*	10/2003	Zeilinger	343/702
D635,965 S	4/2011	Mi et al.	2004/0222936 A1	11/2004	Hung et al.	
D636,382 S	4/2011	Podduturi	2005/0040994 A1*	2/2005	Mazoki et al.	343/809
D649,962 S	12/2011	Tseng et al.	2005/0062655 A1*	3/2005	Suganthan et al.	343/702
D651,198 S	12/2011	Mi et al.	2005/0073462 A1	4/2005	Lin et al.	
D652,409 S *	1/2012	Hernandez et al. ....	2005/0190108 A1	9/2005	Lin et al.	
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.	
D656,131 S *	3/2012	Suleiman et al. ....	2008/0150829 A1	6/2008	Lin et al.	
D658,639 S *	5/2012	Huang et al. ....	2009/0002244 A1	1/2009	Woo	
D659,129 S	5/2012	Mi et al.	2009/0058739 A1	3/2009	Konishi	
D659,685 S *	5/2012	Huang et al. ....	2009/0115679 A1*	5/2009	Chou et al. ....	343/795
D659,688 S	5/2012	Huang et al.	2009/0135072 A1	5/2009	Ke et al.	
D662,916 S	7/2012	Huang et al.	2009/0256754 A1*	10/2009	Tsai et al. ....	343/700 MS
D671,097 S	11/2012	Mi et al.	2009/0262028 A1	10/2009	Murnbru et al.	
D676,429 S	2/2013	Gosalia et al.	2010/0188297 A1	7/2010	Chen et al.	
D678,255 S	3/2013	Ko et al.	2010/0220016 A1*	9/2010	Nissinen et al. ....	343/702
D684,565 S	6/2013	Wei	2010/0225551 A1*	9/2010	Yang et al. ....	343/749
D685,772 S	7/2013	Zheng et al.	2010/0309067 A1	12/2010	Tsou et al.	
2002/0003499 A1	1/2002	Kouarn et al.	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

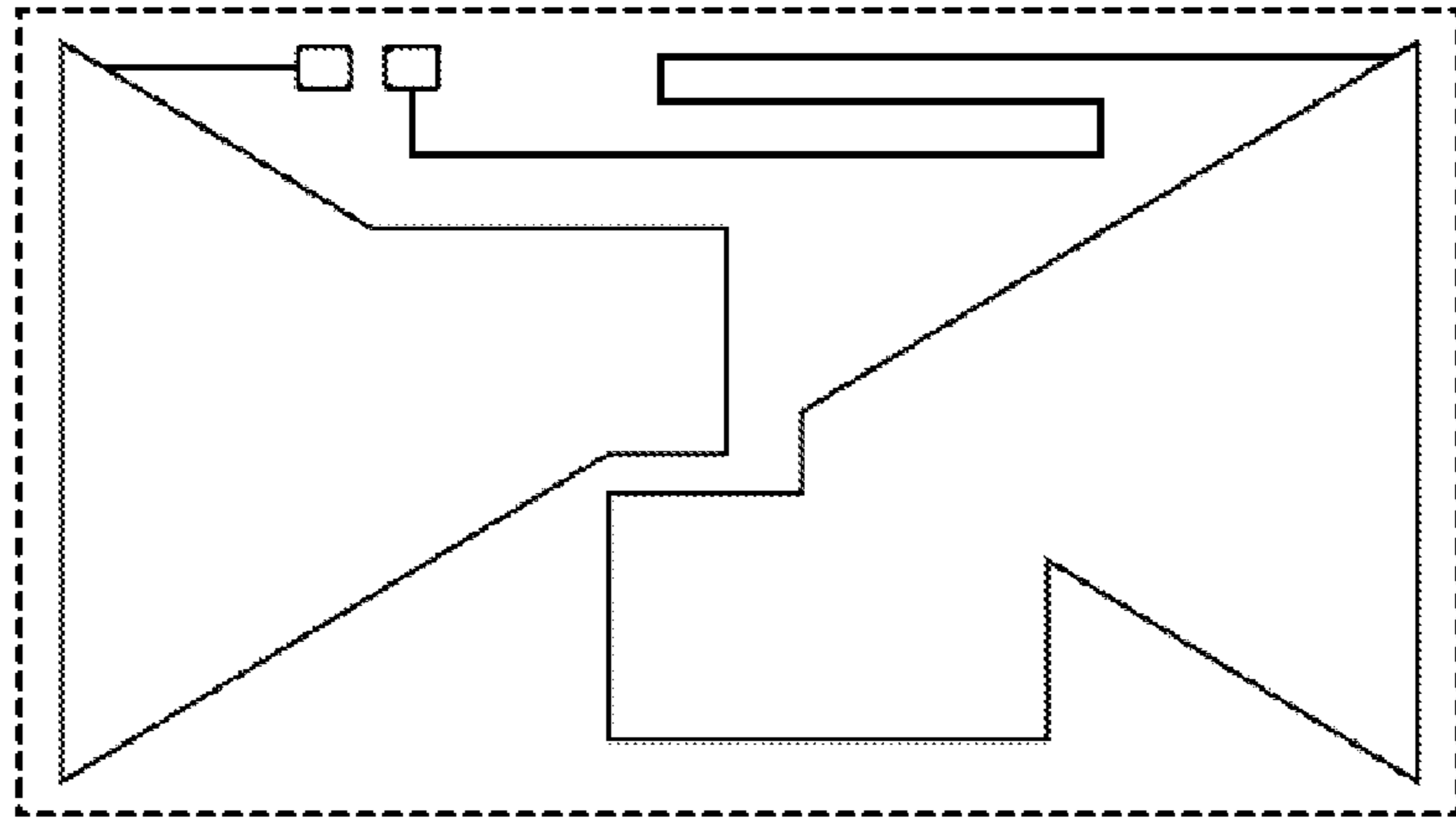


FIG 1



FIG 2

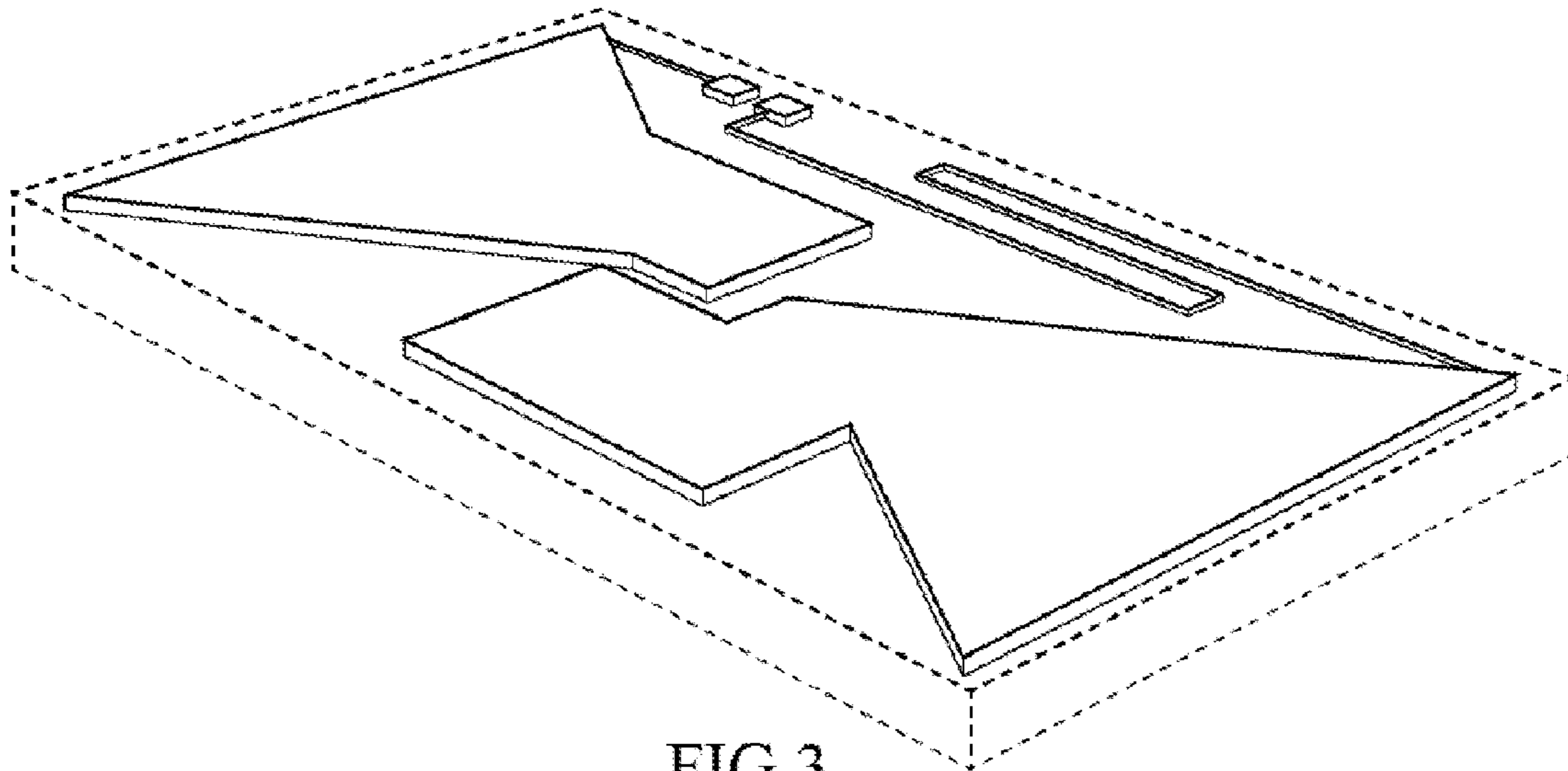


FIG 3

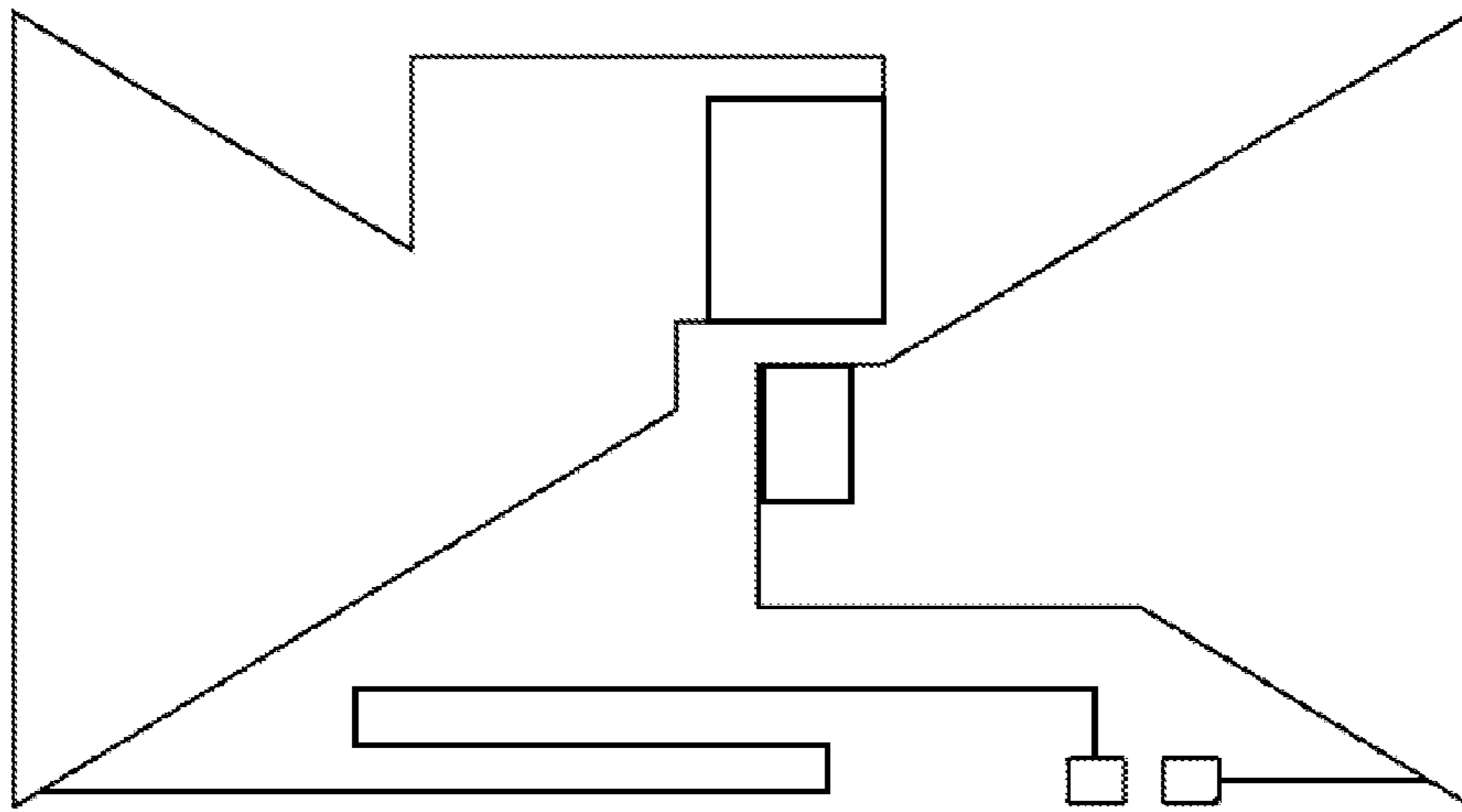


FIG 4

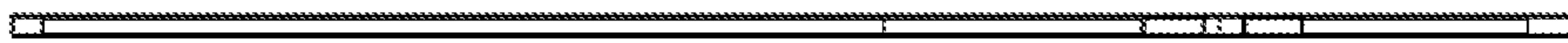


FIG 5

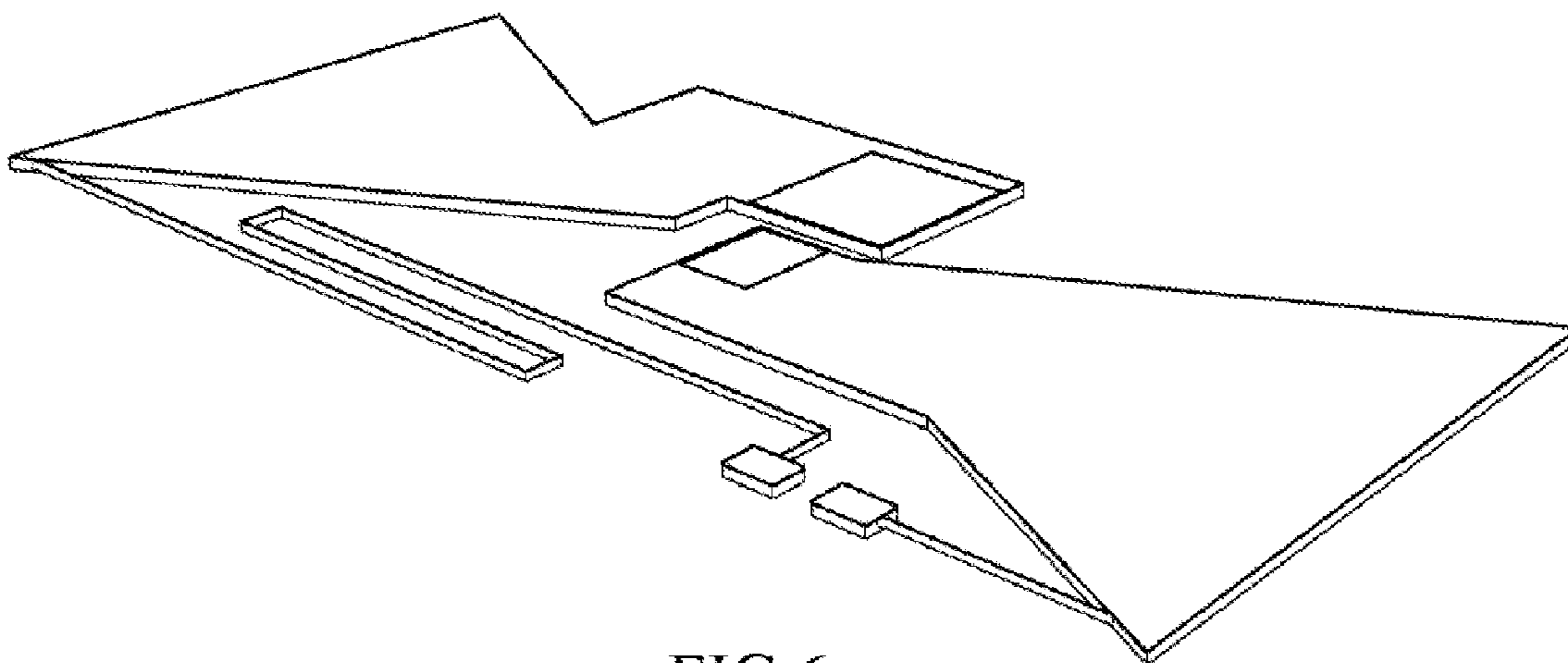


FIG 6