



US00D864174S

(12) **United States Design Patent** (10) **Patent No.:** **US D864,174 S**
Chang et al. (45) **Date of Patent:** **** Oct. 22, 2019**

(54) **ANTENNA**

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(**) Term: **15 Years**

(21) Appl. No.: **29/656,339**

(22) Filed: **Jul. 11, 2018**

Related U.S. Application Data

(62) Division of application No. 29/601,311, filed on Apr. 21, 2017, now abandoned, which is a division of application No. 29/532,915, filed on Jul. 10, 2015, now Pat. No. Des. 784,965.

(51) **LOC (12) Cl.** **14-03**

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

USPC **D14/230**

(58) **Field of Classification Search**

USPC D14/138, 230, 231, 232, 234, 235, 236, D14/237, 238, 238.1, 250, 299, 358; D13/182

CPC G01R 29/10; G01S 2013/0245; G01S 2013/0254; G01S 2013/0263; G01S 7/4026; G05B 2219/45001; G08B 13/2468; G08B 13/2477; G06K 19/07773; G06K 19/07775; G06K 19/07777; H01Q 1/088

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D161,443	S *	1/1951	Hayden	343/745
3,369,245	A *	2/1968	Rea	H01Q 9/285
					343/795
6,424,309	B1 *	7/2002	Johnston	H01Q 9/28
					343/725
7,050,013	B2 *	5/2006	Kim	H01Q 13/10
					343/725
7,123,207	B2 *	10/2006	Yazdandoost	H01Q 9/285
					343/795

(Continued)

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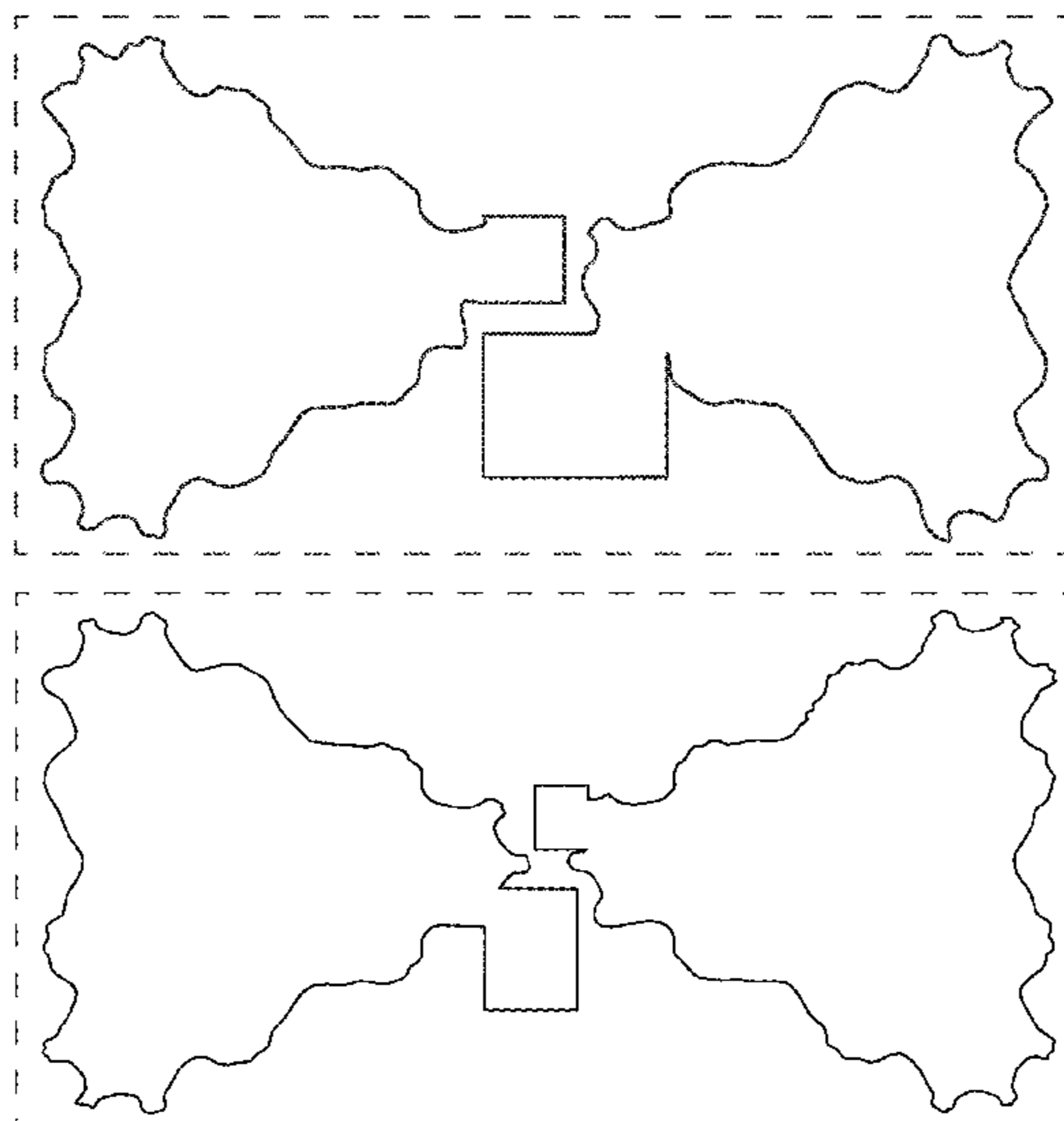
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front elevation view of the first embodiment of an antenna, showing our new design; FIG. 2 is a side plan view thereof; FIG. 3 is a bottom plan view thereof; FIG. 4 is top perspective view thereof; FIG. 5 is a front elevation view thereof, with unclaimed environment not shown; FIG. 6 is a side elevation view thereof, with unclaimed environment not shown; FIG. 7 is a front elevation view of the second embodiment of an antenna, showing our new design; FIG. 8 is a side plan view of the antenna thereof; FIG. 9 is a bottom plan view of the antenna thereof; FIG. 10 is top perspective view of the antenna thereof; FIG. 11 is a front elevation view thereof, with unclaimed environment not shown; and, FIG. 12 is a side elevation view thereof, with unclaimed environment not shown. The broken line in the figure drawings represents unclaimed environment only and forms no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,193,576 B2 * 3/2007 Yazdandoost H01Q 9/285
343/700 MS
D604,275 S * 11/2009 Norris D14/230
D652,409 S * 1/2012 Hernandez D14/230
D695,279 S * 12/2013 Yang D14/230
D695,280 S * 12/2013 Yang D14/230
D708,602 S * 7/2014 Gosalia D14/230
D766,882 S * 9/2016 Schulteis D14/230
D766,884 S * 9/2016 Zheng D14/240
D782,448 S * 3/2017 Gosalia D14/230
D784,965 S * 4/2017 Chang D14/230
D788,082 S * 5/2017 Zheng D14/230
D788,083 S * 5/2017 Zheng D14/230
D795,228 S * 8/2017 He D14/230
D795,847 S * 8/2017 He D14/230
D801,318 S * 10/2017 Manivannan D14/230
D823,837 S * 7/2018 Zhang D14/230
D826,220 S * 8/2018 He D14/230
D833,422 S * 11/2018 He D14/230
D849,725 S * 5/2019 He D14/230
2010/0134292 A1 * 6/2010 Deavours H01Q 1/38
340/572.7
2015/0294215 A1 * 10/2015 Manzi G06K 7/0008
235/439

* cited by examiner

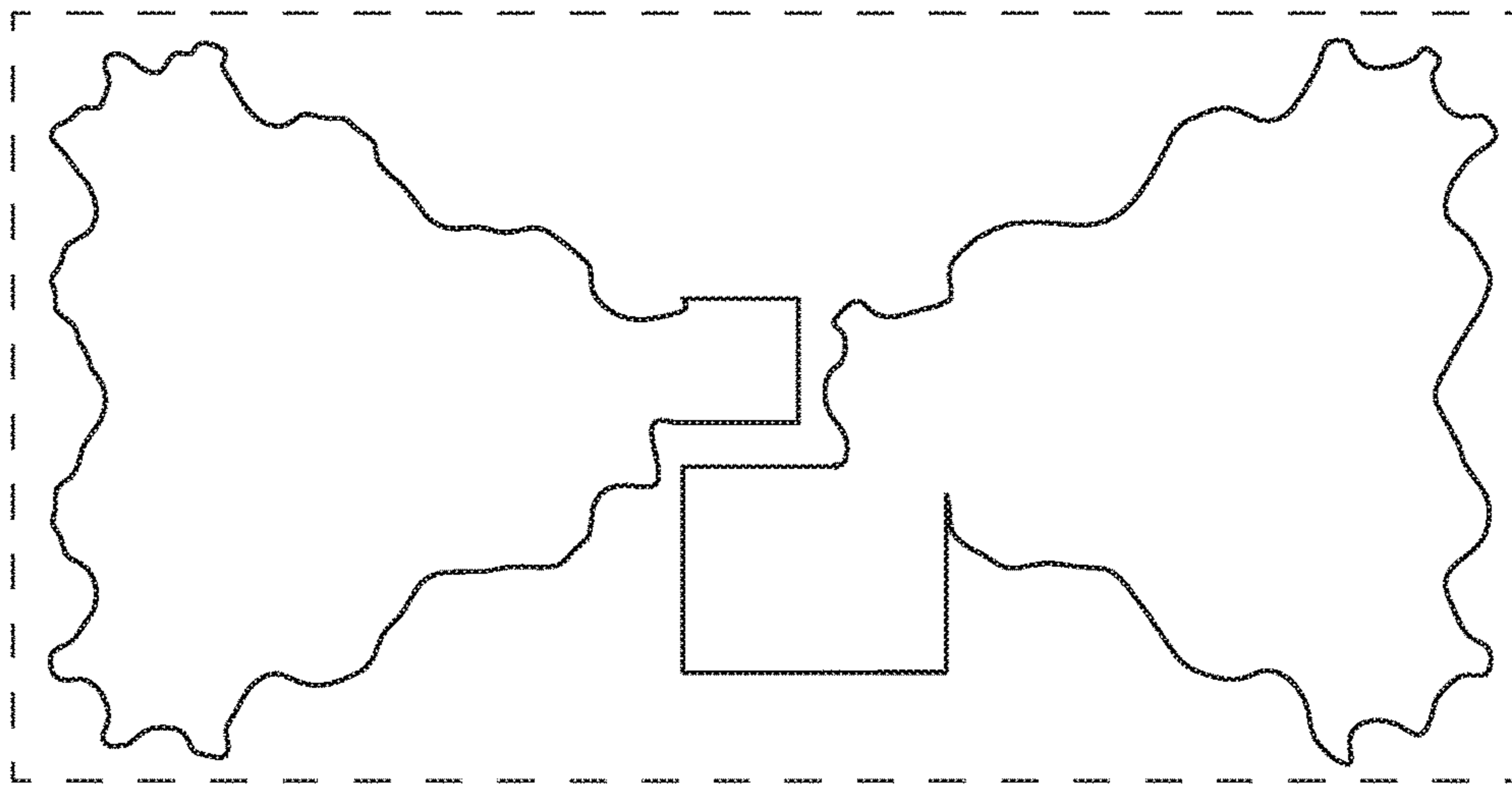


FIG. 1



FIG. 2



FIG. 3

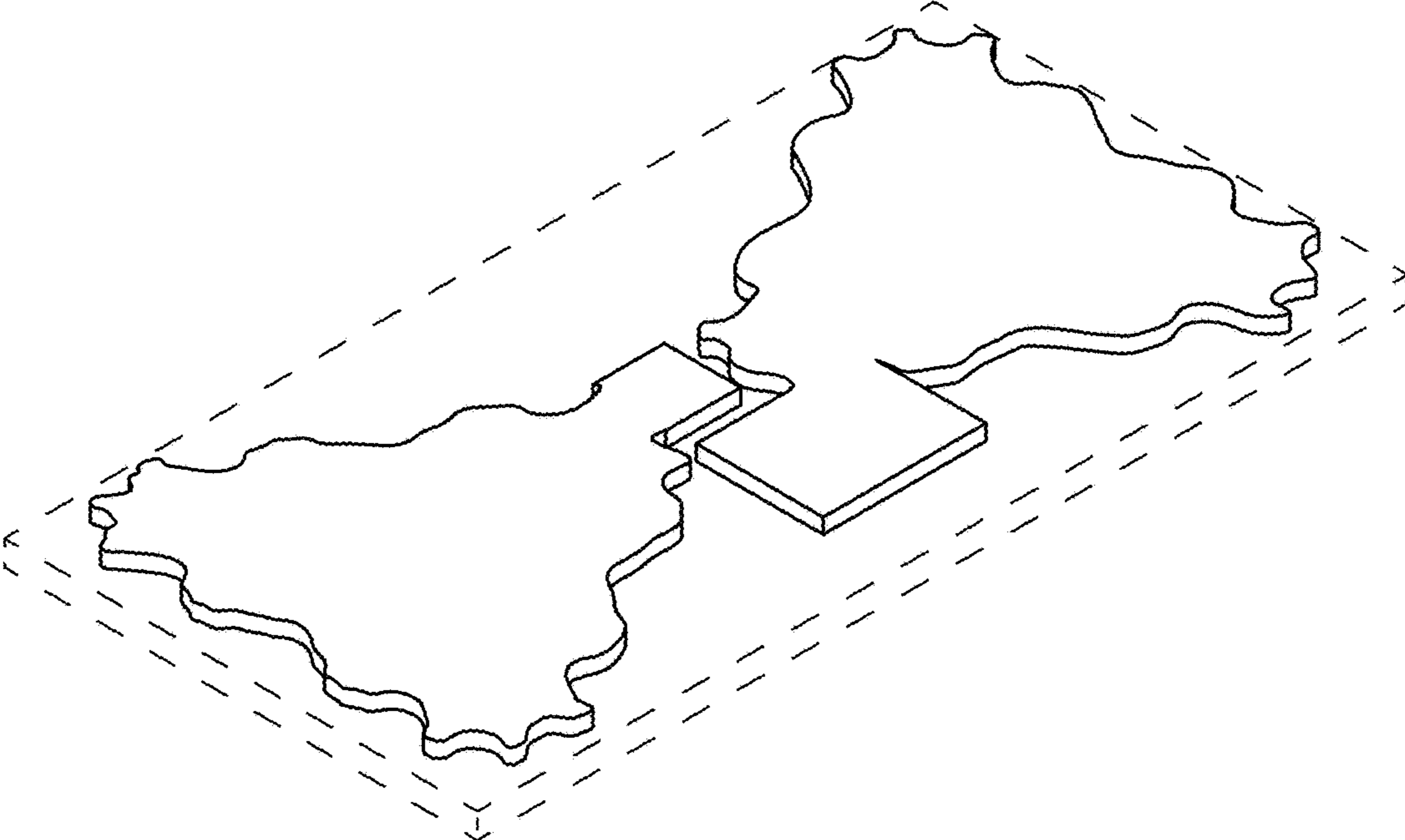


FIG. 4

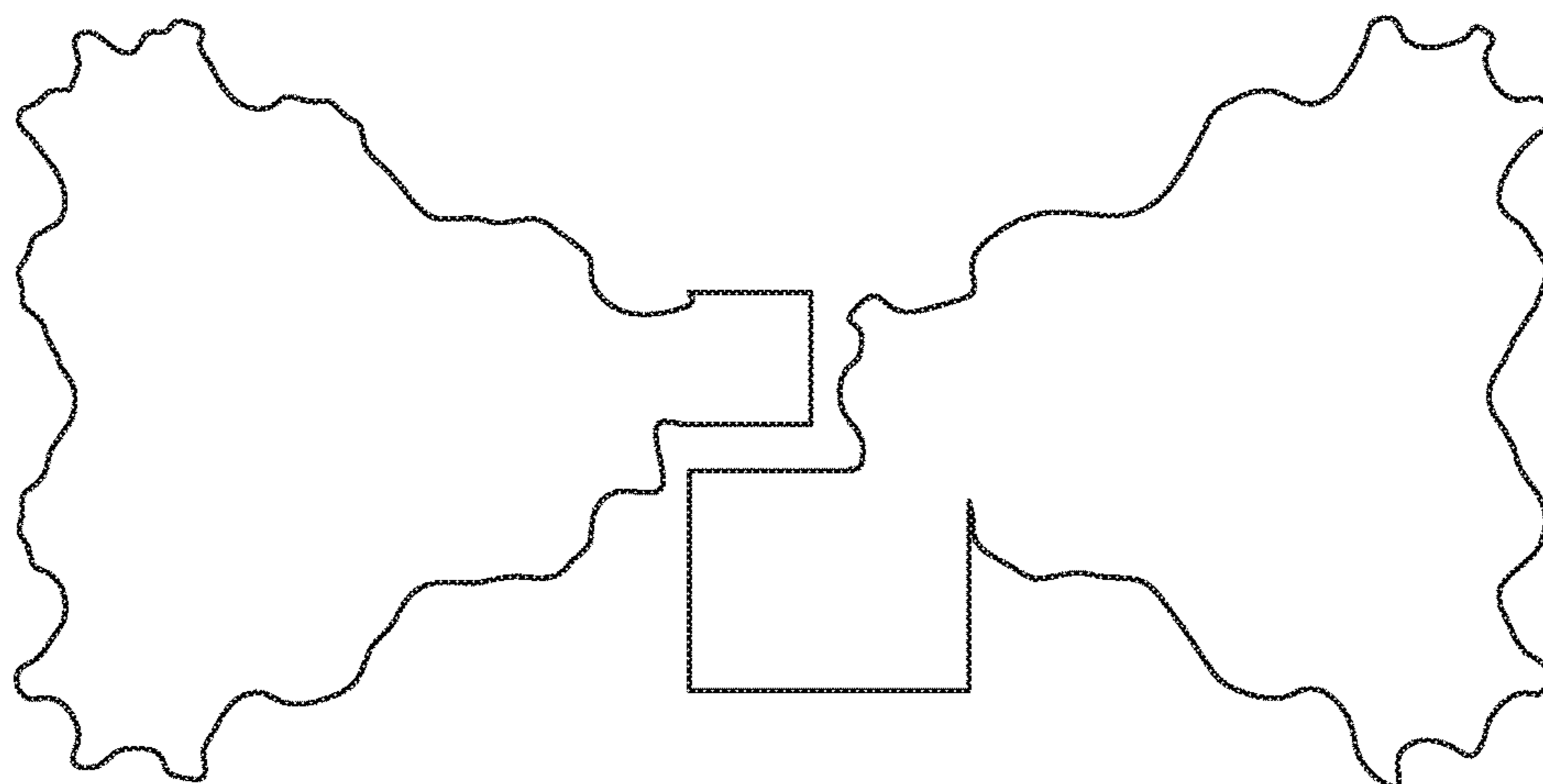


FIG. 5

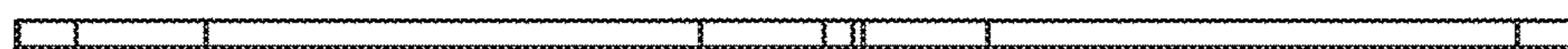


FIG. 6

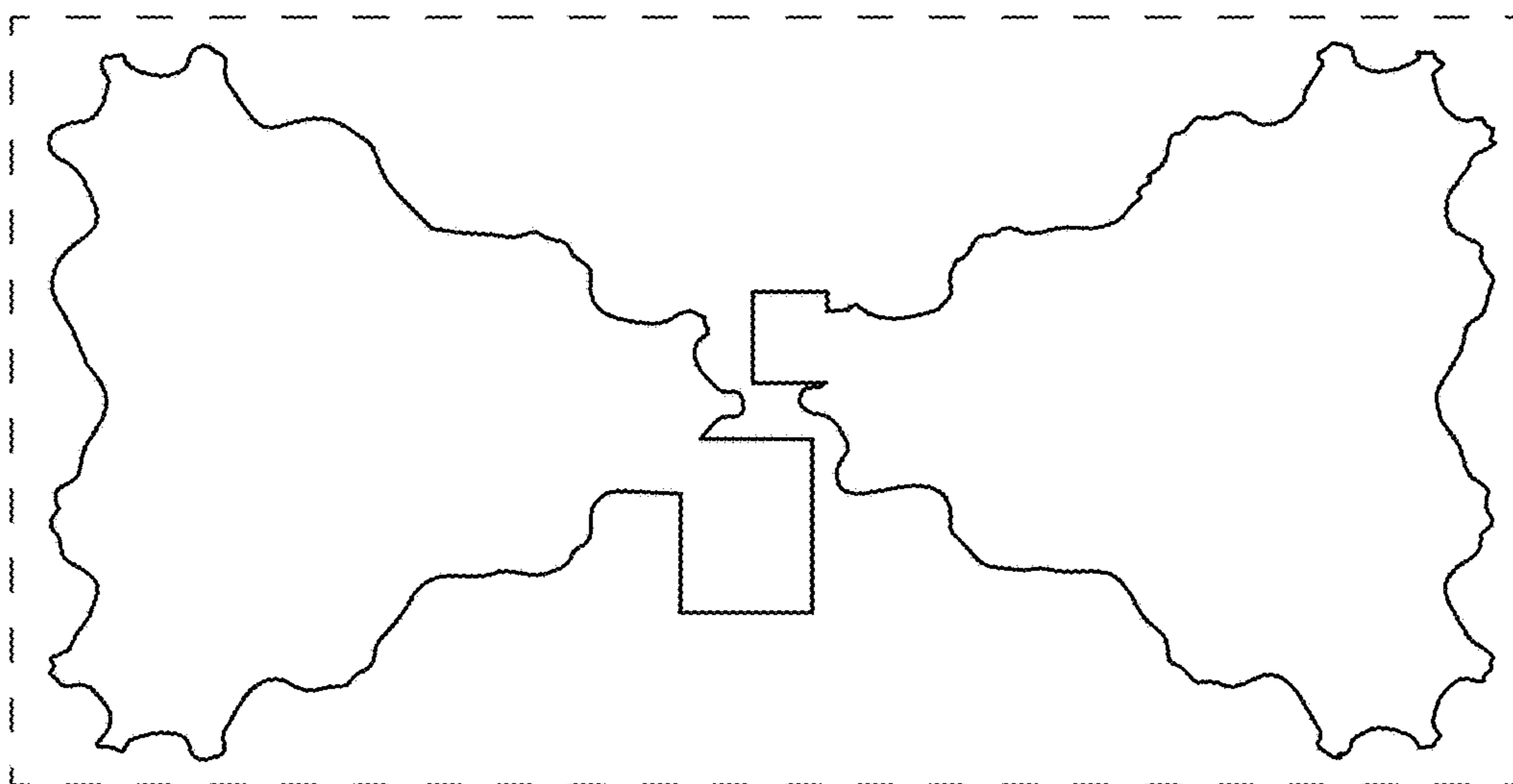


FIG. 7

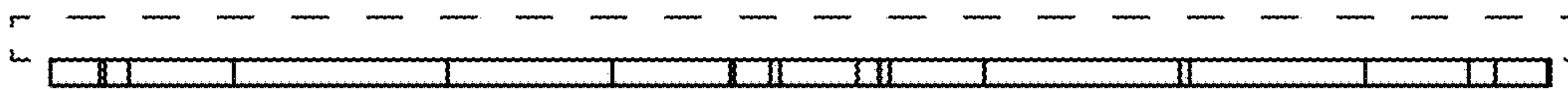


FIG. 8



FIG. 9

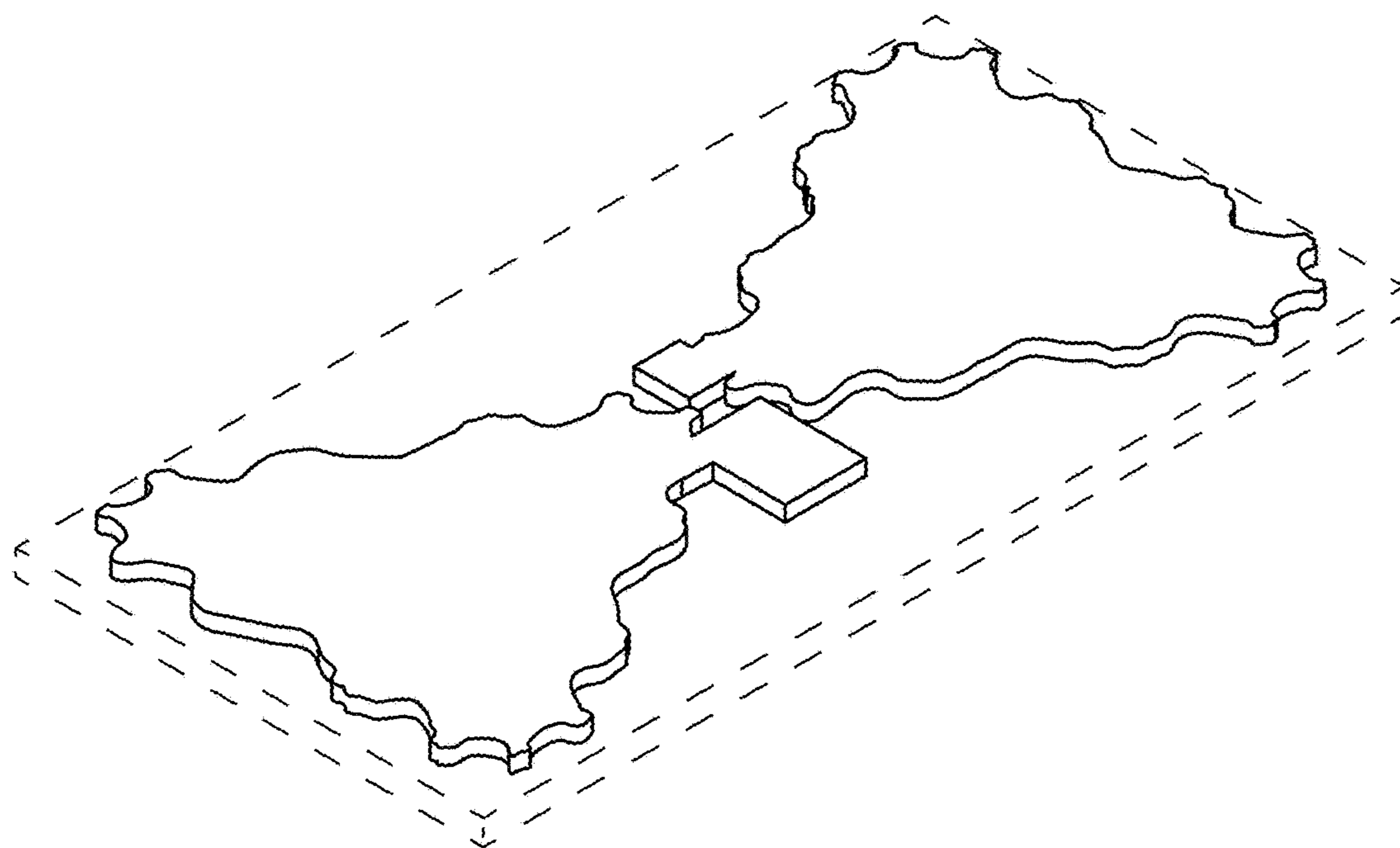


FIG. 10

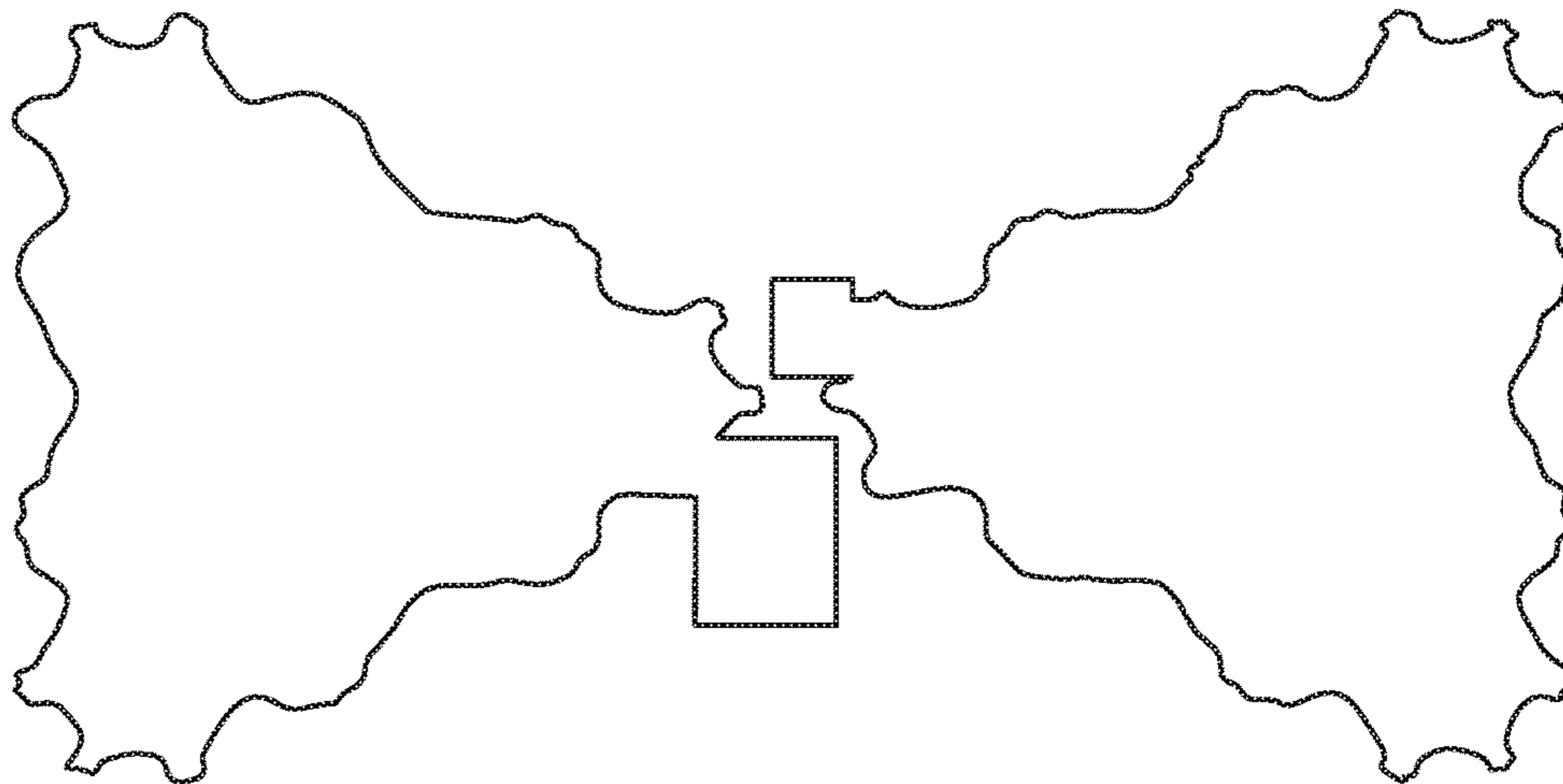


FIG. 11



FIG. 12