



US00D924210S

(12) **United States Design Patent** (10) **Patent No.:** **US D924,210 S**
Rodríguez (45) **Date of Patent:** **** Jul. 6, 2021**

(54) **ANTENNA**

(71) Applicant: **Skyworks Solutions, Inc.**, Irvine, CA (US)

(72) Inventor: **René Rodríguez**, Rancho Santa Margarita, CA (US)

(73) Assignee: **Skyworks Solutions, Inc.**, Irvine, CA (US)

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

(21) Appl. No.: **29/647,380**

(22) Filed: **May 11, 2018**

(51) **LOC (13) Cl.** **14-03**

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

(58) **Field of Classification Search**
USPC D14/230, 232-236, 218, 434, 240, 401;
D10/106.5; D21/324; D13/168, 123
CPC .. H01Q 1/24; H01Q 1/22; H01Q 1/38; H01Q
9/28; H01Q 1/12; H01Q 9/04; H01Q
21/26; G08B 17/02; H01H 36/00; A63F
9/24
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D109,541 S *	5/1938	Benson	.....	D14/230
D162,526 S *	3/1951	Ercolino	.....	D14/230
2,819,463 A *	1/1958	Vail	.....	H01Q 9/12 343/808
D195,172 S *	5/1963	Vitanza	.....	D14/230
D197,717 S *	3/1964	Vitanza	.....	D14/230
D199,126 S *	9/1964	Barrett	.....	D6/686
3,169,611 A *	2/1965	Snelson	.....	E04B 1/19 52/648.1

(Continued)

FOREIGN PATENT DOCUMENTS

CN 301385145 * 11/2010

OTHER PUBLICATIONS

SKY5™ 9269-702LF antenna aperture tuning switch from Skyworks Solutions, Inc. Global Spec website 2019, https://www.globalspec.com/FeaturedProducts/Detail/SkyworksSolutions/SKY5_9269702 . . . site visited Sep. 30, 2019.*

(Continued)

Primary Examiner — John R Yeh

(74) *Attorney, Agent, or Firm* — Knobbe, Martens, Olson & Bear LLP

(57) **CLAIM**

I claim the ornamental design for an antenna, as shown and described.

DESCRIPTION

A portion of the disclosure of this patent document contains material which is subject to copyright protection. This patent document may show and/or describe a starburst image which is or may become trade dress of Skyworks Solutions, Inc. Skyworks Solutions, Inc. has no objection to the facsimile reproduction by anyone of the patent disclosure at it appears in the Patent and Trademark Office files or records, but otherwise reserves all copyright and trade dress rights whatsoever.

FIG. 1 is a top perspective view for an antenna, showing my new design;

FIG. 2 is a front view;

FIG. 3 is a left side view thereof;

FIG. 4 is a right side view thereof;

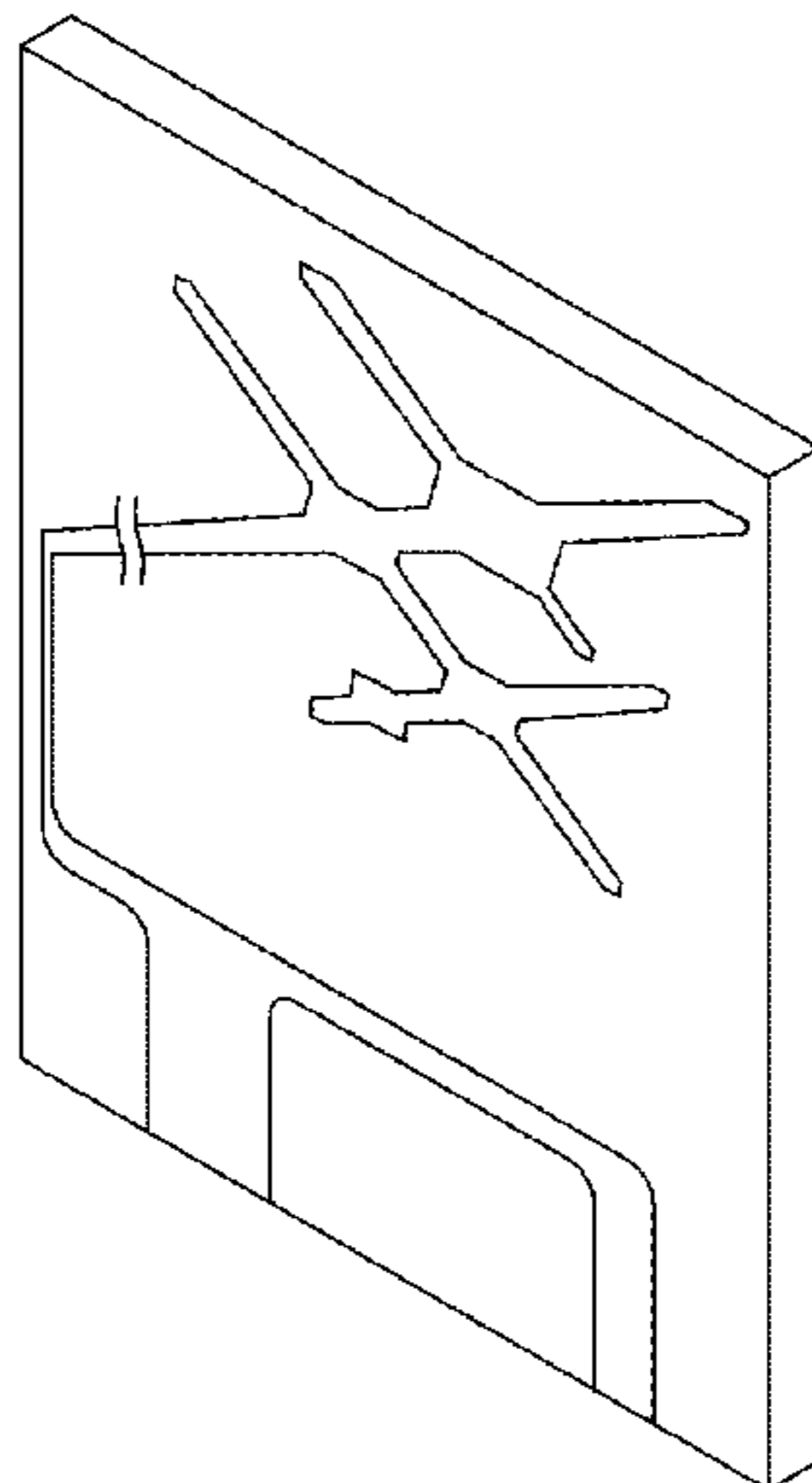
FIG. 5 is a top view thereof;

FIG. 6 is a bottom view thereof; and,

FIG. 7 is a rear view thereof.

The broken lines illustrate portions of the antenna that form no part of the claimed design. The broken away symbols indicate that any portion beyond what is shown in the antenna forms no part of the claimed design. The broken away symbols form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,477,676 A * 11/1969 Moore F16M 13/02
248/201
3,495,250 A * 2/1970 Yee H01Q 1/08
343/834
D229,832 S * 1/1974 Finkel D14/230
3,925,941 A * 12/1975 Pearce A63B 9/00
52/82
3,975,738 A * 8/1976 Pelton H01Q 1/425
343/872
4,731,962 A * 3/1988 Kittner A63H 33/103
135/121
5,280,286 A * 1/1994 Williamson G01S 7/024
342/44
D427,997 S * 7/2000 Inoue D14/230
D440,961 S * 4/2001 Inoue D14/230
6,563,472 B2 * 5/2003 Durham H01Q 1/288
343/756
D487,155 S * 2/2004 Barber D25/61
6,836,258 B2 * 12/2004 Best H01Q 9/0414
343/797
6,868,640 B2 * 3/2005 Barber A47B 13/02
108/150
D563,397 S * 3/2008 Oliver D14/230
D590,379 S * 4/2009 Deguchi D14/230
D594,857 S * 6/2009 Deguchi D14/230
7,595,764 B2 * 9/2009 Shuster H01Q 1/1257
343/766
D606,057 S * 12/2009 Oliver D14/230
7,639,205 B2 * 12/2009 Kudou H01Q 1/50
343/700 MS
D656,131 S * 3/2012 Suleiman D14/230

D695,277 S * 12/2013 Hernandez D14/230
10,236,588 B2 * 3/2019 Crouch H01Q 13/10
10,439,285 B2 * 10/2019 Isik H01Q 19/108
2003/0009974 A1 * 1/2003 Liapi E04B 1/19
52/633
2005/0104793 A1 * 5/2005 Yuanzhu H01Q 13/10
343/770
2006/0139223 A1 * 6/2006 Li H01Q 1/1271
343/713
2006/0145926 A1 * 7/2006 Choi H01Q 1/22
343/700 MS
2007/0194999 A1 * 8/2007 Morton H01Q 1/48
343/767
2007/0229384 A1 * 10/2007 Yamagajo H01Q 1/22
343/795
2011/0199266 A1 * 8/2011 Shimasaki H01Q 1/38
343/700 MS
2015/0263435 A1 * 9/2015 Song H01Q 21/062
343/810

OTHER PUBLICATIONS

Skyworks' MIPI(r) Antenna Aperture Tuners—Embedded Computing Design, upload date 2019, <http://embedded-computing.com/news/skyworks-antenna-aperture-tuners/>, site visited Sep. 30, 2019.*
Skyworks AS225-313LF Evaluation Board SP2T 0.1-6 GHz 1W RF Switch 0.6 dB IL | eBay upload date 2019, https://www.ebay.com/itm/Skyworks-AS225-313LF-Evaluation-Board-SP2T-0-1-6-GHz-1W-RF-Switch-0-6-dB-IL-/133065120695?_trksid=p2385738.m4383.14275.c10, site visited Sep. 30, 2019.*
Skyworks Logo Guidelines, site visited Mar. 19, 2020, http://stage.skyworksinc.com/downloads/skyworks_logo_guidelines.pdf.*

* cited by examiner

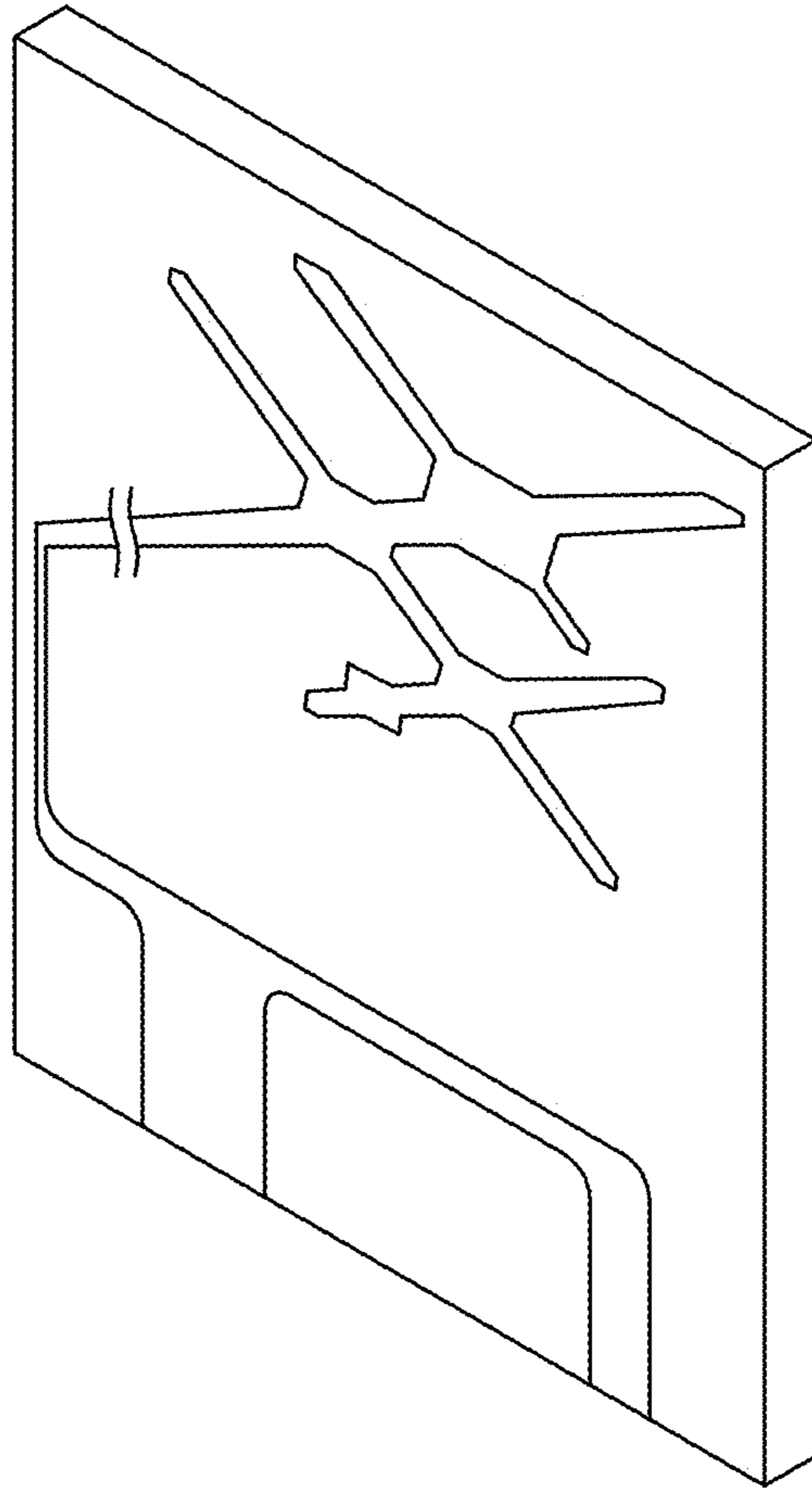


FIG. 1

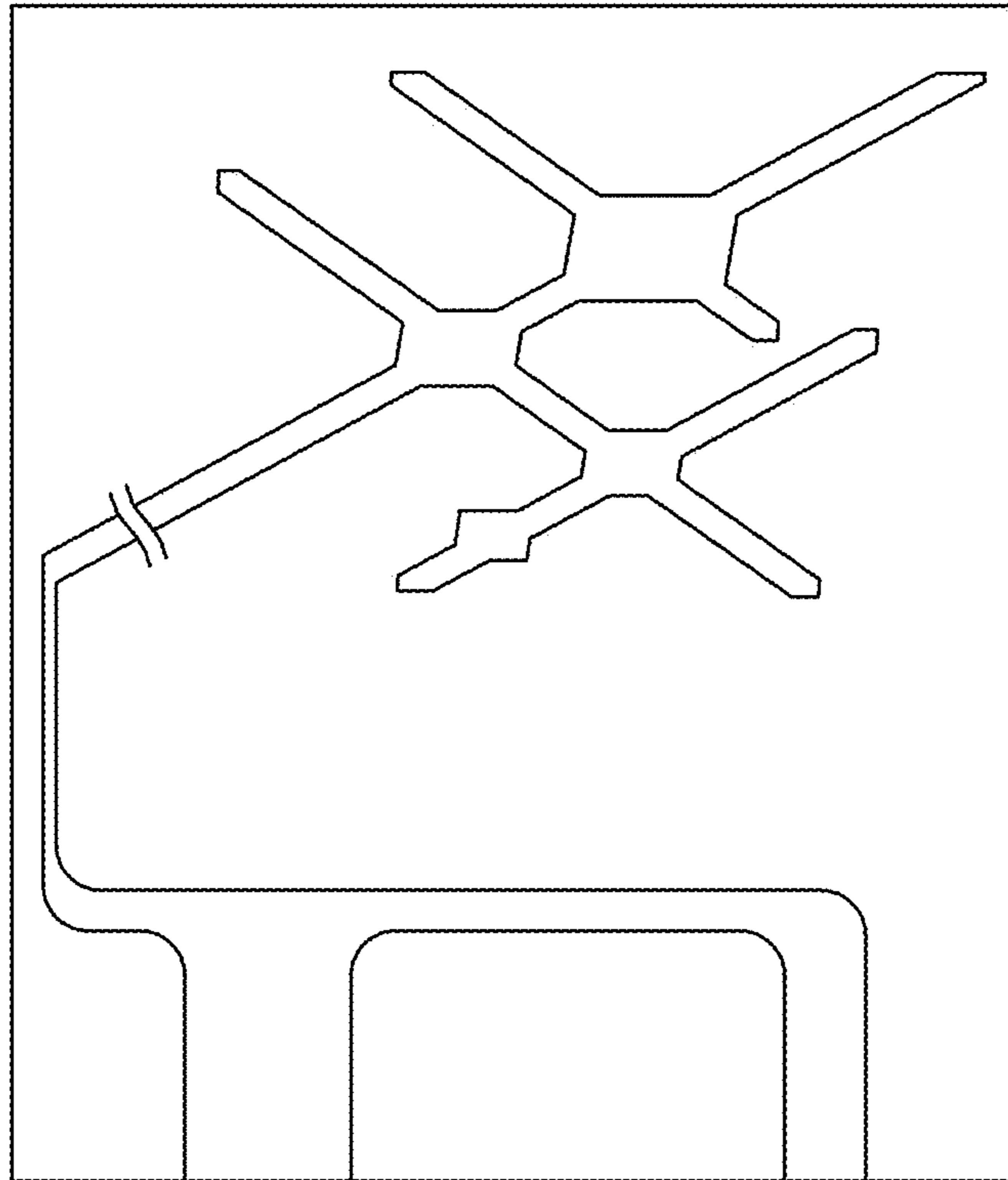


FIG. 2



FIG. 3



FIG. 4



FIG. 5



FIG. 6

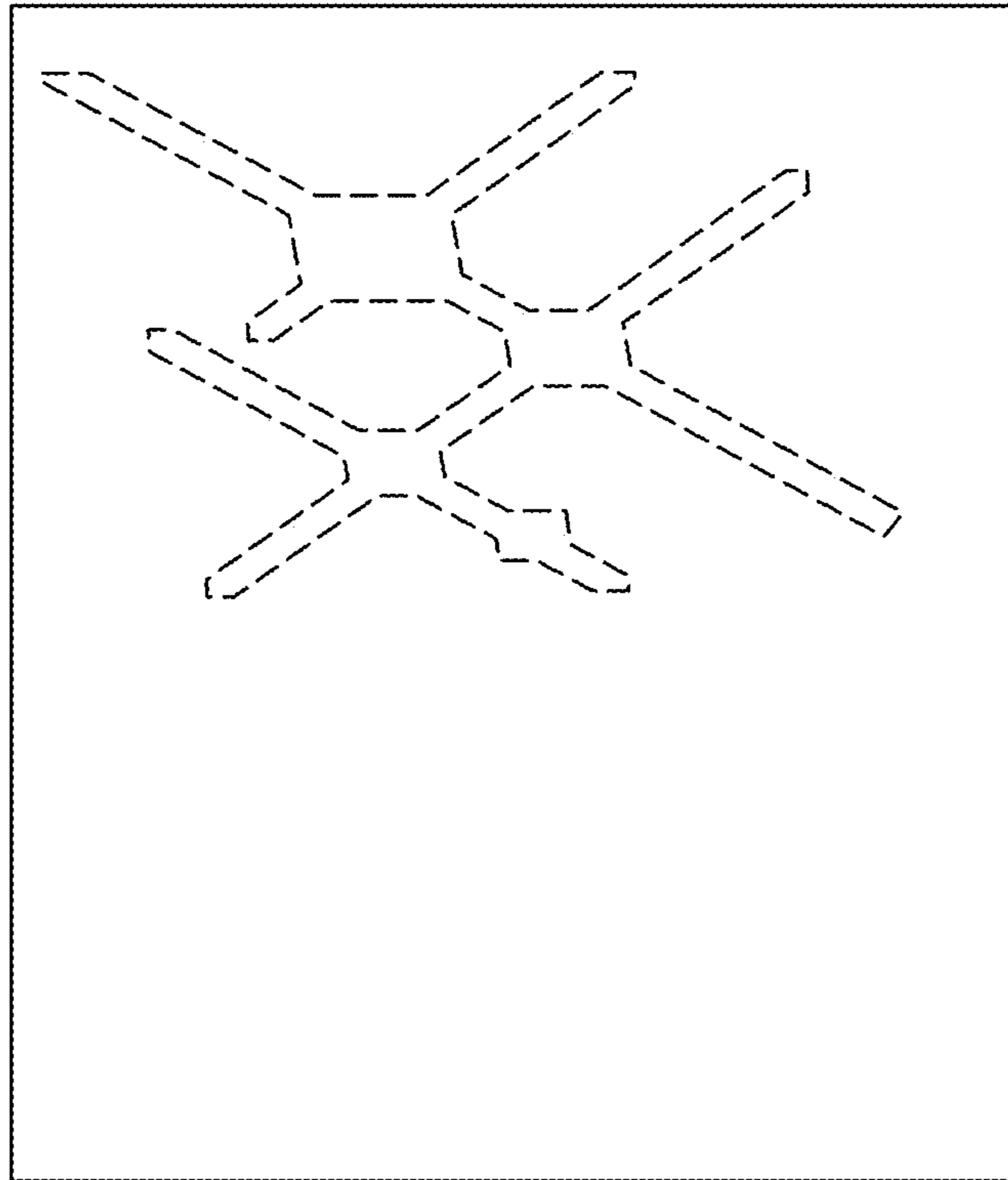


FIG. 7