### UNITED STATES DISTRICT COURT EASTERN DISTRICT OF TEXAS MARSHALL DIVISION

ENTROPIC COMMUNICATIONS, LLC,

Plaintiff,

v.

DIRECTV, LLC, AT&T, INC., AT&T SERVICES, INC., and AT&T COMMUNICATIONS, LLC. Case No. 2:22-cv-75

COMPLAINT FOR PATENT INFRINGEMENT

**DEMAND FOR JURY TRIAL** 

Defendants.

### **ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT**

Plaintiff, Entropic Communications, LLC ("Entropic"), files this complaint for patent infringement against DirecTV, LLC, AT&T, Inc., AT&T Services, Inc., and AT&T Communications, LLC (collectively, "Defendants") and in support thereof alleges and avers as follows:

# **NATURE OF THE ACTION**

1. This is a civil action arising under the patent laws of the United States, 35 U.S.C. § 1 *et seq.*, including, specifically, 35 U.S.C. § 271, based on infringement of U.S. Patent Nos. 7,130,576 ("the '576 Patent"), 7,542,715 ("the '715 Patent"), and 8,792,008 ("the '008 Patent") (collectively "the Patents-in-Suit").

### THE PARTIES

Entropic is a Delaware limited liability company with an office address of 7150
Preston Rd. Suite 300, Plano, Texas 75024.

3. DirecTV, LLC ("DirecTV") is a limited liability company organized and existing under the laws of California with a principal place of business at 2260 E. Imperial Hwy., El Segundo, California 90245.

4. AT&T Services, Inc. and AT&T Communications, LLC are wholly owned by AT&T, Inc. (collectively "AT&T").

5. AT&T, Inc. is a corporation organized and existing under the laws of the State of Delaware with a principal place of business at 208 S. Akard St., Dallas, Texas 75202.

6. AT&T Services, Inc. is a Delaware corporation with a place of business at 208 South Akard Street, Dallas, Texas 75202.

7. AT&T Communications, LLC is a Delaware limited liability company with a place of business at 208 South Akard Street, Dallas, Texas 75202.

8. DirecTV maintains locations in Texas, including at least in the following towns: Arlington, Longview, and Dallas.

9. DirecTV maintains facilities in Texas, including in the following towns: Abilene, Amarillo, Austin, Vidor, Corpus Christi, Richardson, El Paso, McAllen, Marshall, Houston, Laredo, Lubbock, Midland, San Antonio, Denison, Tyler, Waco, and Wichita Falls, among others.

10. DirecTV may be served through its registered agent CT Corp. System at 1999 Bryan St. Suite 900, Dallas, Texas 75201.

11. AT&T maintains physical locations in at least the following towns in the district: Anna, Athens, Beaumont, Bonham, Canton, Carthage, Center, Crockett, Gun Barrel City, Denison, Frisco, Gainesville, Henderson, Jackson, Kilgore, Liberty, Lindale, Longview, Lufkin, Lumberton, Marshall, McKinney, Mount Pleasant, Nacogdoches, Palestine, Port Arthur, Princeton, Proposer, Sherman, Sulphur Springs, Texarkana, Tyler and West Orange, among others.

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AT&T may be served through its registered agent CT Corporation System at 1999
Bryan Street, Suite 900, Dallas, Texas 75201.

13. DirecTV, through its related entity, DirecTV Enterprises LLC, also maintains a regional headquarters at 1010 N Saint Mary's St. Rm. 9-Y01, San Antonio, Texas 78215.

14. DirecTV offers its products via storefronts, including at 1712 E Grand Ave, Marshall, Texas 75670.

15. DirecTV maintains a physical, regular and established place of business at 3111 S US Hwy 75, Sherman, Texas 75090.

16. DirecTV sells, leases, and distributes its infringing technology in this district.

17. On information and belief, DirecTV employees work in this district, including but not limited to a Senior Area Sales Manager in Richardson, Texas, as well as other employees working in Allen, Texas.

18. On information and belief, these employees work both at DirecTV offices and AT&T offices, as well as under the control of DirecTV and AT&T at the employees' homes in this district.

19. On information and belief, both when working remotely in this district and at offices in this district, DirecTV and AT&T supply these employees with equipment, for example, a virtual office, computer equipment, and VPN access, to allow these employees to perform their duties.

20. DirecTV instructs potential customers that, if a potential customer wishes to consider DirecTV products in person, the potential customers should come to one of "*our* AT&T retail stores" (emphasis added):

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DIRECTV     Search Movies, Shows, Products, Support     Q     Stream -     Satellite -							
Find a Retailer							
It's easy to get the DIRECTV <sup>®</sup> System that's right for you. Check out local authorized dealers in your area below, or shop online now.							
Shop DIRECTV.com							
We've made it easy to build a DIRECTV <sup>®</sup> System that fits your needs. Plus, we offer some of the best deals you can find online. Shop Now							
Find a Store Near You							
Want to visit us in person? Get expert advice from one of our AT&T retail stores in your area. Plus, don't miss out on bundling savings with our Internet and Wireless services for the ultimate entertainment package. Find a Store							
More Ordering Options							
If you prefer, order your system from DIRECTV at 1-888-777-2454 (6 am to 3 am ET daily).							
DIRECTV Retailer Search To find out if there is a DIRECTV retailer near you, enter your ZIP code below							
Zip Code: Dealers within:							
5 miles 💌 Submit							
Checking this box will show Spanish retailers only							
Please note: Not all models are available from all dealers.							

https://www.directv.com/DTVAPP/global/findRetailer.jsp?assetId=cms\_find\_retailer.

21. There are numerous AT&T stores marketing DirecTV products in this district including, but not limited to, in: Anna, Athens, Beaumont, Bonham, Canton, Carthage, Center, Crockett, Gun Barrel City, Denison, Frisco, Gainesville, Henderson, Jackson, Kilgore, Liberty, Lindale, Longview, Lufkin, Lumberton, Marshall, McKinney, Mount Pleasant, Nacogdoches, Palestine, Port Arthur, Princeton, Proposer, Sherman, Sulphur Springs, Texarkana, Tyler, and West Orange.

22. DirecTV has authorized dealers in this district including, but not limited to, in: Texarkana, Mount Pleasant, Port Arthur, Beaumont, Frisco, Greenville, Point, and Sulphur Springs.

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23. DirecTV, on information and belief, controls the aforementioned authorized dealers.

24. In order to become an authorized dealer, such dealers must go through an online application process and be qualified to properly represent the DirecTV brand.

25. An authorized dealer must regularly reapply and show that it continues to be an appropriate representative of the DirecTV and AT&T brands.

26. DirecTV regularly and consistently provides instruction concerning its products and services to authorized dealers in the district and send DirecTV employees including technicians and sales personnel to authorized dealers in this district, for example, to assist with marketing new products, to address technical issues, etc.

27. One of the many such dealers includes TNT Internet & TV, located in Marshall, Texas:



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# Internet & TV



https://tntsatellites.us/.

28. DirecTV owns or leases, and maintains and operates several Local Receive Facilities (LRFs) in this district:

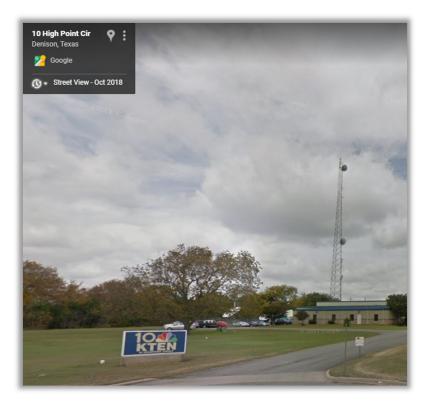
https://www.directv.com/DTVAPP/content/contact\_us/local\_receive\_facilities

29. On information and belief, in each of those LRFs, DirecTV owns and stores equipment such as receivers and servers. Each of these LRFs are used to acquire and transmit local television channels over the DirecTV spectrum to DirecTV customers.

30. DirecTV operates LRFs at facilities located in this district at, at least, 1721 Evangeline Drive, Vidor, TX 77662; 10 High Point Circle, Denison, TX 75020; and 110 N. College Avenue, Tyler, TX 75702:



https://www.google.com/maps/place/1721+Evangeline+Dr,+Vidor,+TX+77662/7



https://www.google.com/maps/place/10+High+Point+Cir,+Denison,+TX+75020/



https://www.google.com/maps/place/110+N+College+Ave,+Tyler,+TX+75702

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31. On information and belief, DirecTV employs personnel that service, repair and/or replace equipment associated with the LRFs, as appropriate, in this district.

32. AT&T offers its products via storefronts, for example, the AT&T Store at 8922 S Broadway Ave Ste. 112, Tyler, Texas 75703.

33. AT&T offers for sale and sells DirecTV products and services at the AT&T Store at 8922 S Broadway Ave Ste. 112, Tyler, Texas 75703.

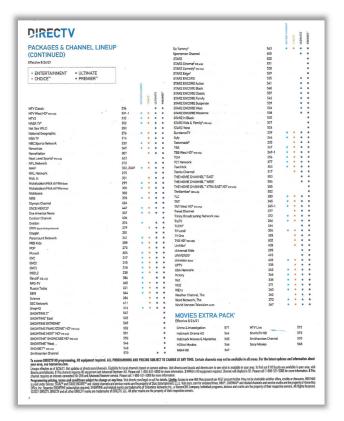
34. AT&T personnel at stores in this district sign up prospective customers for DirecTV service and schedule home installation for those customers in AT&T stores.

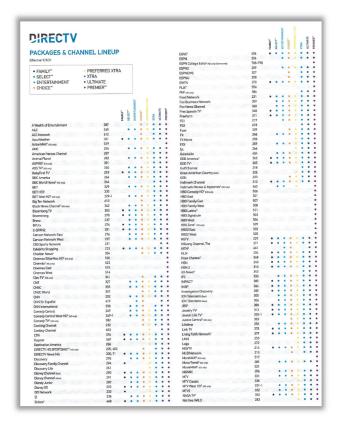
35. A prospective DirecTV customer can sign up for two types of DirecTV products, the "standard satellite service and the new streaming service," at the AT&T Store at 8922 S Broadway Ave Ste. 112, Tyler, Texas 75703.

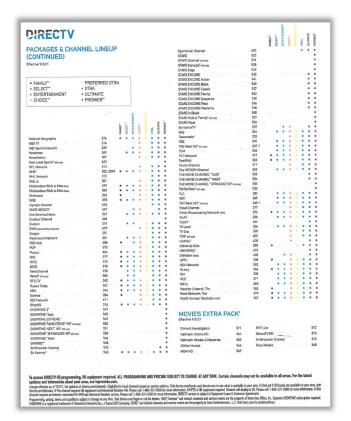
36. A prospective DirecTV customer can sign up for service, schedule install, and complete the entire onboarding process right in the AT&T store at 8922 S Broadway Ave Ste. 112, Tyler, Texas 75703.

37. The following DirecTV literature is available to prospective DirecTV customers at the AT&T store in Tyler, Texas:

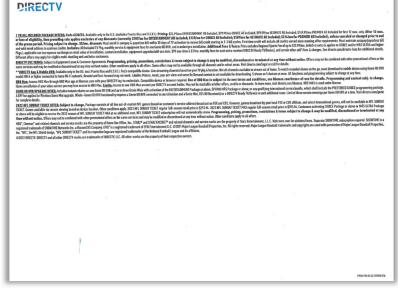
DIRECTV								CINTERTAINING	CHOICE .	ULTIMATE	1000
ACKAGES & CHANN	EL LINEUP					ESNE	456	•	•	5	
fective 8/26/21						ESPN	206				
rective e/26/21						ESPN College Extra <sup>2</sup> (10 std/litemes.org)	788-718				
						ESPN2	209				
ENTERTAINMENT  ULTII	ATE					ESPNEWS	207				
CHOICE <sup>**</sup> PREF						ESPNU	208				
- choice - riter	-incrv					EWIN	370				
						E.K.	556				
						FM at util	386				
		INTERTAINMENT				For scale	231				
		2				Food Network	359	- 2			
		12	k	ULTIMATE	PREMER'	Fox News Channel	360	- 2			
		ũ.	1000	6	ê	Pox News Charnet	219	- 2			
Wealth of Entertainment	387	-			-	PSI PS2	618				
Weath of Entertainment	387 265			:	:	Fisz Free Speech TV <sup>a</sup>	348				
ICC Network		•	•			Free Speech I V	311				
	612		•	٠				•		•	
couWeather	361	•	•	•		Fuse	339 248		0		
ActionMAX <sup>2</sup> orDunys	519					FX	248	•	•		
MC	254	•	•	•	•	FXM	258				
Imerican Heroes Channel.	287			٠	•	FOL	259	•	•	•	
knimal Planet	282	•	•	٠	•	64.				•	
SPRE <sup>2</sup> 10 He	381			•	•	Galavisión	404	•	•	•	
VS TV <sup>0</sup> 00 with	340	•	٠	•	•	GEB America <sup>3</sup>	363	•	•	•	
BabyFirst TV <sup>0</sup>	293	•	٠	•	٠	GCD TV <sup>a</sup>	365	•	•	•	
3BC America	264	•	٠	٠	٠	Golf Channel	218			•	
3BC World News <sup>2</sup> (Howy	346				٠	Great American Country suo	325			•	
BET	329	٠	٠	•	٠	GSN	233		•	•	
BET HER	330					Hallmark Channel	312		•	•	
BET West HD <sup>2</sup> (+D wigh	329-1	٠	٠	٠	٠	Hallmark Movies & Mysteries? Howy	565	٠			
Big Ten Network	610				٠	HBO Comedy HD <sup>2</sup> House	506				
Black News Channel <sup>®</sup> ec.wys	342	٠	٠	٠	٠	HBO East	501				
Bioomberg TV	353					HBO Family East	507				
Boomerang	298	٠	٠	٠	٠	HBO Family West	508				
Bravo	237			٠	٠	HB0 Latino <sup>1</sup>	511				
BYUtv	374			٠	٠	HBO Signature	503				
C-SPAN2	351			٠	٠	HBO West	504				
Cartoon Network East	296			٠	٠	HBO Zone <sup>2</sup> erounet	509				
Cartoon Network West	297					HB02 Fast	502				
285 Sports Network	221					HB02 West	505				
Dheddar News <sup>a</sup>	354					HGTV	229				
Dinemax 5StarMax HD <sup>2</sup> provide	520					Hillsong Channel, The	371				
Dinemáx <sup>a</sup> yowy	523					The HISTORY Channel	269				
Dinemax East	515					HITN <sup>2</sup>	461				
Dinemax West	516					HLN	204				
Cleo TV <sup>0</sup> (clourly)	341				٠	Hope Channel?	368				
DMT	327					HSN	240	- 2	1		
CNBC	355					HSN 2	310	- 2	- 1		
CNBC World	357						343				
CNN	202					124 News*	343		۰.		1
CNN En Español <sup>o</sup>	419					IFC	333			1	
DNN International	358					IMPACT <sup>1</sup>	360				1
Comedy Central	2/9					INSP	364 285				
Corriedy Central West HD <sup>2</sup> or out a	249-1					Investigation Discovery		•	•		
Cornedy TV <sup>®</sup> erawy	382		1			ION Television easo	305	•	•		
Cooking Channel	232		1			ION Television ewe	306	•	•		
Coxboy Channel	603		-			JBS <sup>3</sup>	388	•	•		
Coweby Channel CTN	376			:		Jeweiry TV	313	•	•		
Davstar	3/6	- 1	- 1			Jewish Life TV <sup>8</sup>	325-1	•			
	286					Justice Central <sup>2</sup> ordered	383				
Destination America DIRECTV HD SPORTSMD <sup>C2</sup> (10 mb)	205, 600					Lifetime	252	•	•		
	205, 600 278	-	:	:	:	Link TV	375	•			
Discovery	278 294	•	•	:	:	Living Faith Network <sup>1</sup>	379	•	•		
Discovery Family Channel	294 261			•		LMN	253				,
Discovery Life				•	•	Logo HD	272				•
Disney Channel sato	290	•		•	•	MAVTV	214		•		
Disney Channel (wws	291	•		•	•	MLB Network	213				•
Disney Junior	289	•	•	•	:	MoreMAX <sup>e</sup>	517				
Disney XD	292	•	•	•		MotorTrend <sup>®</sup> excess	281				•
DIY Network				•		MovieMAX <sup>2</sup> + Event	521				
El Enlace'	236	•	•	•		MSNBC	356				•
	448					MIV					











38. AT&T and DirecTV co-mingle websites. *See* <u>https://www.att.com/</u>, which includes hyperlinks with the word "TV" that redirect customers to the DirecTV website (<u>https://www.directv.com/</u>) so that customers can purchase DirecTV satellite products and services.

39. On information and belief, AT&T has in the past offered for sale, sold, used, and distributed, as well as does offer for sale, sells, uses and distributes its infringing technology in this district, including DirecTV branded products, services, and systems.

40. On information and belief, AT&T has in the past leased, and does lease, the infringing technology, including in connection with product bundles of fiber internet products and satellite television equipment.

41. On information and belief, AT&T has in the past received, evaluated, and approved, and does receive, evaluate, and approve, applications to become an authorized dealer for DirecTV.

42. On information and belief, DirecTV does not have a separate web portal for authorized dealer applications and instead offers the application for authorized dealers through a web portal maintained by AT&T:

AT&T Authorized Retailer Program	ng Started FAQs Contact Us Check order status
About AT&T The AT&T Brand Benefits Requirements Gettin Who we are?	ng Started FAQs Contact Us Check order status
AT&T Authorized Retailer Prog Sell our cutting-edge products and services It's an exciting time to consider the AT&T Authorized Retail Program. This program offers an opportunity for qualified Authorized Retailers to sell our cutting-edge products and services. Our goal is to develop mutually beneficial relationships that will allow us to attain the highest level of excellence together. AT&T continues to innovate with first-rate products like DIRECTV®, AT&T Mobility, AT&T Fiber, Business Solutions, and FirstNet services. Prospective Authorized Retailers who meet the minimum requirements, which include the ability to present a business plan and provide detail resources to execute the plan, are invited to complete our contact form today for consideration.	ram

# https://www.att.com/att/newdealer/.

43. The AT&T Authorized Retailer Program web portal touts AT&T's "first-rate products like DIRECTV®."

44. On information and belief, AT&T is responsible for evaluating and approving

employment applications for employees of DirecTV:

Principal-System Engineer					
Technology Job ID: 2203533					
Dallas, Texas, New Jersey-BEDMINSTER					
Apply Now $\rightarrow$ Save Job $\heartsuit$					
DirecTV seeking a <b>Principal System Engineer</b> for our Contact Center Technology team reporting to the Director of IVR and Contact Center Technology. This position plays an integral role in developing the next generation voice and omni-channel customer experience. As the System Engineer you will be responsible for understanding business needs and priorities at a tactical and a strategic level, turning these into world-class, fully integrated Omnichannel solutions that will help DirecTV meet its cost savings targets and customer satisfaction objectives.					
***					
AT&T will consider for employment qualified applicants in a manner consistent with the requirements of federal, state and local laws					

https://jobs.directv.com/job/dallas/principal-system-engineer/390/22390566240.

45. On information and belief, AT&T owns all substantial rights, interest, and title in and to certain DirecTV trademarks.

46. For example, Trademark Registration No. 5835109 is a DirecTV trademark covering goods and services related to satellite dishes and installation for satellite dishes and lists the owner as AT&T Intellectual Property II, L.P.

47. On information and belief, DirecTV and AT&T commingle leadership, office space, employees, products, and other operational resources and assets all within this district.

48. For example, numerous AT&T employees are on the Board of Directors for DirecTV.

49. On information and belief, various employees have shared responsibilities for both AT&T and DirecTV.

50. Moreover, on information and belief, DirecTV employees occupy offices at office spaces including in this district ostensibly owned or leased by AT&T.

51. In addition, AT&T and DirecTV bundle together services (e.g., satellite TV and internet) via DirecTV websites:

Home / DIRECTV satellite / Technology	
	LOOKING FOR MORE?
STREAMING TV	SATELLITE TV
DIRECTV STREAM TV	DIRECTV satellite TV
TV packages	TV packages
Channel lineup	Channel lineup
Internet bundles	Internet bundles
Technology	Technology
Premium add-ons	Premium add-ons
Sports	Sports
Spanish add-ons	Spanish packages
International add-ons	International add-ons

https://www.directv.com/satellite/technology/.

52. Clicking the "Internet bundles" link under "SATELLITE TV" on the <u>https://www.directv.com/satellite/technology/</u> website redirects customers to the following AT&T website: https://www.att.com/bundles/directv-internet/.

# JURISDICTION AND VENUE

53. This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a) because the claims herein arise under the patent laws of the United States, 35 U.S.C. § 1 *et seq.*, including 35 U.S.C. § 271.

54. This Court has personal jurisdiction over AT&T and DirecTV in this action because AT&T and DirecTV have committed acts of infringement within the State of Texas and within this district through, for example, the provision of satellite television services by both AT&T and DirecTV, utilizing devices provided by AT&T and DirecTV, as described in the counts herein ("Accused Satellite Television Services").

55. The Accused Satellite Television Services are available for subscription online from the respective websites of both AT&T and DirecTV.

56. The Accused Satellite Television Services are also available for subscription from various physical stores, including AT&T Stores offering DirecTV branded products, services, and systems in this district, including at 1712 E Grand Ave, Marshall, Texas 75670.

57. The devices provided by AT&T and DirecTV to supply the Accused Satellite Television Services are provided to customers in this district and may be obtained by customers from physical locations in this district, including the AT&T Store at 1712 E Grand Ave, Marshall, Texas 75670.

58. DirecTV regularly transacts business in the State of Texas and within this district.

59. DirecTV engages in other persistent courses of conduct and derives substantial revenue from products and/or services provided in this district and in Texas, and has purposefully established substantial, systematic, and continuous contacts within this district and should reasonably expect to be sued in a court in this district.

60. For example, DirecTV regularly transacts business out of a store in this district and has a Texas registered agent for service.

61. DirecTV operates a website and various advertising campaigns that solicit customers to lease, buy, and use the Accused Satellite Television Services in this district and in Texas.

62. Given these contacts, the Court's exercise of jurisdiction over DirecTV will not offend traditional notions of fair play and substantial justice.

63. With respect to DirecTV, venue in the Eastern district of Texas is proper pursuant to 28 U.S.C. § 1400(b).

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64. DirecTV has a regular and established place of business at the AT&T location located at 1712 E Grand Ave, Marshall, Texas 75670.

65. At the AT&T location at 1712 E Grand Ave, Marshall, Texas 75670, DirecTV sells and markets the Accused Satellite Television Services to customers in this district.

66. On information and belief, at the location at 1712 E Grand Ave, Marshall, Texas 75670, DirecTV provides pick-up service for the Accused Satellite Television Services to customers who have ordered the Accused Satellite Television Services online or over the phone.

67. DirecTV has additional regular and established places of business in this district, including in Tyler, Marshall, Longview, and Atlanta, Texas, where DirecTV sells and markets the Accused Satellite Television Services to customers in this district.

68. DirecTV has committed acts within this judicial district giving rise to this action at the stores in Tyler, Marshall, Longview, and Atlanta, Texas.

69. DirecTV targets its advertisements towards residents of this district.

70. DirecTV continues to conduct business in this judicial district, including one or more acts of making, selling, using, importing and/or offering for sale the Accused Satellite Television Services and providing support service to customers in this district.

71. AT&T is headquartered in the State of Texas and regularly transacts business within this district.

72. AT&T engages in other persistent courses of conduct and derives substantial revenue from products and/or services provided in this district and in Texas, and has purposefully established substantial, systematic, and continuous contacts within this district and should reasonably expect to be sued in a court in this district.

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73. For example, AT&T regularly transacts business out of several stores in this district and has a Texas registered agent for service.

74. AT&T has numerous storefronts and corporate offices in this district.

75. AT&T operates a website and various advertising campaigns that solicit customers to lease, buy, and use the Accused Satellite Television Services in this district and in Texas.

76. Given these contacts, the Court's exercise of jurisdiction over AT&T will not offend traditional notions of fair play and substantial justice.

77. With respect to AT&T, venue in this district is proper pursuant to 28 U.S.C. § 1400(b).

78. AT&T has a regular and established place of business at 8922 S Broadway Ave Ste. 112, Tyler, Texas 75703.

79. AT&T also maintains locations in the following towns in this district: Anna, Athens, Beaumont, Bonham, Canton, Carthage, Center, Crockett, Gun Barrel City, Denison, Frisco, Gainesville, Henderson, Jackson, Kilgore, Liberty, Lindale, Longview, Lufkin, Lumberton, Marshall, McKinney, Mount Pleasant, Nacogdoches, Palestine, Port Arthur, Princeton, Proposer, Sherman, Sulphur Springs, Texarkana, Tyler and West Orange, among others.

80. At the location at 8922 S Broadway Ave Ste. 112, Tyler, Texas 75703, AT&T sells and markets the Accused Satellite Television Services, as defined herein, to customers in this district.

81. At 8922 S Broadway Ave Ste. 112, Tyler, Texas 75703, and others in this district, AT&T has leased and leases the Accused Satellite Television Services bundled with its fiber internet products.

82. AT&T targets DirecTV advertisements towards residents of this district.

83. On information and belief, at the location at 8922 S Broadway Ave Ste. 112, Tyler, Texas 75703, AT&T provides pick-up service for the Accused Satellite Television Services to customers who have ordered their Accused Satellite Television Services online or over the phone.

84. AT&T has additional regular and established places of business in this district, including in Anna, Athens, Beaumont, Bonham, Canton, Carthage, Center, Crockett, Gun Barrel City, Denison, Frisco, Gainesville, Henderson, Jackson, Kilgore, Liberty, Lindale, Longview, Lufkin, Lumberton, Marshall, McKinney, Mount Pleasant, Nacogdoches, Palestine, Port Arthur, Princeton, Proposer, Sherman, Sulphur Springs, Texarkana, Tyler and West Orange where AT&T offers to sell and sells the Accused Satellite Television Services to customers in this district.

85. AT&T continues to conduct business in this judicial district, including one or more acts of making, selling, using, importing or offering for sale Accused Satellite Television Services and providing support service to customers in this district.

#### THE PATENTS-IN-SUIT

86. On October 31, 2006, the '576 Patent, entitled "Signal Selector and Combiner for Broadband Content Distribution," was duly and legally issued by the United States Patent and Trademark Office.

87. On August 11, 2009, the United States Patent and Trademark Office issued a Reexamination Certification of the '576 Patent.

88. The '576 Patent was duly assigned to Entropic. A true and accurate copy of the'576 Patent is attached hereto as Exhibit A.

89. On June 2, 2009, the '715 Patent, entitled "Signal Selector and Combiner for Broadband Content Distribution," was duly and legally issued by the United States Patent and

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Trademark Office. The '715 Patent was duly assigned to Entropic. A true and accurate copy of the '715 Patent is attached hereto as Exhibit B.

90. On July 29, 2014, the '008 Patent, entitled "Method and Apparatus for Spectrum Monitoring," was duly and legally issued by the United States Patent and Trademark Office. The '008 Patent was duly assigned to Entropic. A true and accurate copy of the '008 Patent is attached hereto as Exhibit C.

91. Entropic is the owner by assignment of all rights, title, and interest in the Patentsin-Suit.

### **ENTROPIC'S LEGACY AS A SATELLITE INNOVATOR**

92. Entropic Communications Inc., the predecessor-in-interest to Entropic, was founded in San Diego, California in 2001 by Dr. Anton Monk, Itzhak Gurantz, Ladd El Wardani and others. Entropic Communications Inc. was instrumental in the development of the Multimedia over Coax Alliance ("MoCA") standard, Direct Broadcast Satellite ("DBS") Outdoor Unit ("ODU") single wire technology, and System-on-Chip ("SoC") solutions for set-top boxes ("STBs") in the home television and home video markets.

93. Dr. Monk received his Bachelor of Science degree and Doctorate in Electrical Engineering from the University of California San Diego and a Master of Science in Electrical Engineering from the California Institute of Technology.

94. Under the guidance of Dr. Monk, Entropic Communications Inc. grew to an eventual public listing on the NASDAQ in 2007. After the public listing, the company acquired RF Magic, Inc. in 2007, a company specializing in DBS ODU technology and hardware.

95. Additional growth between 2007 and 2015 bolstered the technical expertise of Entropic Communications Inc., including satellite signal acquisition, digital signal stacking, and signal distribution.

96. For years, Entropic Communications Inc. pioneered cutting edge DBS ODU technology. This technology simplified the installation required to support simultaneous reception of multiple channels from multiple satellites over a single cable. The company's DBS ODU products include various integrated circuits and SoCs for band translation switches, channel stacking switches, and digital channel stacking switches. The DBS ODU technology was deployed as an industry leading solution in global DBS operators, including AT&T and DirecTV.

97. In 2015, MaxLinear, Inc.—a leading provider of radio-frequency (RF), analog, digital, and mixed-signal semiconductor solutions—acquired Entropic Communications Inc. and the pioneering intellectual property developed by Dr. Monk and his team.

98. For years, satellite providers such as AT&T and DirecTV relied upon products produced in whole or in part by Entropic Communications Inc. (and later MaxLinear, Inc.) to enable their services for customers.

99. The Patents-in-Suit are the result of years of research and development in satellite and cable technology. These innovations have enabled AT&T and DirecTV to provide enhanced and expanded services to customers, which in turn has increased revenues for AT&T and DirecTV while at the same time reducing the costs.

#### FIRST CAUSE OF ACTION

#### (Infringement of the '576 Patent by AT&T and DirecTV)

100. Entropic incorporates by reference and realleges each and every allegation of Paragraphs 1 through 99 as if set forth herein.

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101. Entropic owns all substantial rights, interest, and title in and to the '576 Patent, including the sole and exclusive right to prosecute this action and enforce the '576 Patent against infringers, and to collect damages for all relevant times.

102. An outdoor unit or "ODU" is typically located, as the name suggests, outside of a customer's home. For example, an ODU often includes a dish antenna, one or more feed horns, one or more low-noise block converters ("LNB" or "LNBF"), and one or more processing units. The processing units can be located within the ODU itself or in a multi-switch unit located between the ODU and devices within the customer's home. An ODU is generally responsible for receiving satellite broadband signals from one or more devices, such as an integrated receiver decoder unit, located within the customer's home. These in-home devices can decode (or otherwise process) the signals received from the ODU. The in-home devices can output television programming to a customer's television and provide video recording functionality.

103. The '576 Patent generally describes the process of an ODU receiving satellite broadband signals, combining certain extracted signals into a composite signal, and transmitting that composite signal from the ODU to an integrated receiver decoder unit, without changing the modulation of the signal. This transmission historically required separate wires running from the ODU to each integrated receiver decoder unit. The '576 Patent provides the benefit of single wire transmission from the ODU to interior integrated receiver decoder units. AT&T and DirecTV implement this single wire transmission to provide the Accused Satellite Television Services by supplying and using, for example, signal selector and combiner ("SSC") products.

104. AT&T and DirecTV have used, sold, and offered for sale the Accused Satellite Television Services that utilize SSC devices, which include SSC-enabled LNBs (for example, SWM5-21 LNB and SWM-13 LNB) and switches (for example, SWM8, SWM16, and SWM30).

105. AT&T and DirecTV further have made, used, imported, supplied, distributed, sold, offered for sale, and leased SSC devices that perform the Accused Satellite Television Services.

106. AT&T and DirecTV directly infringe the method of at least Claim 14 of the '576 Patent during provision of the Accused Satellite Television Services by utilizing, for example, the SSC devices provided by AT&T and DirecTV.

107. The SSC devices remain the property of AT&T and DirecTV even when deployed at the property of a customer.

108. The Accused Satellite Television Services operate in a manner controlled and intended by AT&T and DirecTV.

109. AT&T and DirecTV have been and are aware of the '576 Patent.

110. As set forth in the attached non-limiting claim chart (Exhibit D), AT&T and DirecTV have directly infringed and are infringing at least Claim 14 of the '576 Patent by using, selling, and offering for sale the Accused Satellite Television Services.

111. Additionally, the use of the Accused Satellite Television Services by AT&T and DirecTV to, for example, demonstrate products in brick-and-mortar stores in Marshall, Texas or to, for example, test those products, constitute acts of direct infringement of at least Claim 14 of the '576 Patent.

112. These actions arise out of the same transaction, occurrence, or series of transactions or occurrences.

113. The '576 Patent is cited on the face of a number of DirecTV patents. These include U.S. Patent Nos. 8,997,157, 8,238,813, and 8,024,759. In U.S. Patent No. 8,024,759, the '576 Patent was explicitly used by the examiner in the first non-final office action rejecting the thenpending claims of DirecTV's patent application that led to U.S. Patent No. 8,024,759.

114. Entropic has been damaged as a result of the infringing conduct alleged above. AT&T and DirecTV are liable to Entropic in an amount that compensates Entropic for AT&T and DirecTV's infringement, which by law cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

115. Entropic has complied with 35 U.S.C. § 287 with respect to the '576 Patent.

#### SECOND CAUSE OF ACTION

#### (Infringement of the '715 Patent by AT&T and DirecTV)

116. Entropic incorporates by reference and realleges each and every allegation of Paragraphs 1 through 115 as if set forth herein.

117. Entropic owns all substantial rights, interest, and title in and to the '715 Patent, including the sole and exclusive right to prosecute this action and enforce the '715 Patent against infringers, and to collect damages for all relevant times.

118. The '715 Patent generally describes a system that receives a plurality of channels from an LNB, a frequency translator that shifts channels to new carrier frequencies, a signal combiner capable of combining at least two signals to produce a composite signal having the same modulation as the LNB channels, where the composite signal is transmitted on a coax cable to a gateway (for example, HR54/Genie and HS17/Genie 2).

119. AT&T and DirecTV have used, sold, and offered for sale the Accused Satellite Television Services that utilize gateway systems, which include SSC-enabled LNBs (for example, SWM5-21 LNB and SWM-13 LNB) and switches (for example, SWM8, SWM16, and SWM30) used with gateways such as the HR54/Genie and HS17/Genie 2.

120. AT&T and DirecTV further have made, used, imported, supplied, distributed, sold, offered for sale, and leased gateway systems that perform the Accused Satellite Television Services.

121. AT&T and DirecTV directly infringe at least Claim 9 of the '715 Patent during provision of the Accused Satellite Television Services by utilizing, for example, the gateway devices provided by AT&T and DirecTV.

122. The gateway systems remain the property of AT&T and DirecTV even when deployed at the property of a customer.

123. The Accused Satellite Television Services operate in a manner controlled and intended by AT&T and DirecTV.

124. AT&T and DirecTV have been and are aware of the '715 Patent.

125. As set forth in the attached non-limiting claim chart (Exhibit E), AT&T and DirecTV have directly infringed and are infringing at least Claim 9 of the '715 Patent by using, importing, selling, leasing, and offering for sale the Accused Satellite Television Services.

126. Additionally, the use of the Accused Satellite Television Services by AT&T and DirecTV to, for example, demonstrate products in brick-and-mortar stores in Marshall, Texas or to, for example, test those products, constitute acts of direct infringement of at least Claim 9 of the '715 Patent.

127. These actions arise out of the same transaction, occurrence, or series of transactions or occurrences.

128. The '715 Patent is cited on the face of a number of DirecTV patents. These patents include U.S. Patent Nos. 7,987,486, 8,238,813, and 8,789,115. In U.S. Patent No. 8,238,813, the '715 Patent was explicitly used by the examiner in the first non-final office action rejecting the then-pending claims of DirecTV's patent application that led to U.S. Patent No. 8,238,813.

129. Entropic has been damaged as a result of the infringing conduct alleged above. AT&T and DirecTV are liable to Entropic in an amount that compensates Entropic for AT&T and DirecTV's infringement, which by law cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

130. Entropic has complied with 35 U.S.C. § 287 with respect to the '715 Patent.

#### THIRD CAUSE OF ACTION

#### (Infringement of the '008 Patent by AT&T and DirecTV)

131. Entropic incorporates by reference and realleges each and every allegation of Paragraphs 1 through 130 as if set forth herein.

132. Entropic owns all substantial rights, interest, and title in and to the '008 Patent, including the sole and exclusive right to prosecute this action and enforce the '008 Patent against infringers, and to collect damages for all relevant times.

133. The '008 Patent generally describes a system that receives a signal having a range of frequencies, the digitization of the received signal, and reporting of certain signal characteristics to the source of the received signal.

134. AT&T and DirecTV have used, sold, and offered for sale the Accused Satellite Television Services that utilize monitoring equipment, which include certain monitoring devices (for example, HR54/Genie and HS17/Genie 2).

135. AT&T and DirecTV further have made, used, imported, supplied, distributed, sold, offered for sale, and leased monitoring devices that perform the Accused Satellite Television Services.

136. AT&T and DirecTV directly infringe at least Claim 3 of the '008 Patent during provision of the Accused Satellite Television Services by utilizing, for example, the monitoring devices provided by AT&T and DirecTV.

137. The monitoring devices remain the property of AT&T and DirecTV even when deployed at the property of a customer.

138. The Accused Satellite Television Services operate in a manner controlled and intended by AT&T and DirecTV.

139. AT&T and DirecTV have been and are aware of the '008 Patent.

140. As set forth in the attached non-limiting claim chart (Exhibit F), AT&T and DirecTV have directly infringed and are infringing at least Claim 3 of the '008 Patent by using, importing, selling, leasing, and offering for sale the Accused Satellite Television Services.

141. Additionally, the use of the Accused Satellite Television Services by AT&T and DirecTV to, for example, demonstrate products in brick-and-mortar stores in Marshall, Texas or to, for example, test those products, constitute acts of direct infringement of at least Claim 3 of the '008 Patent.

142. These actions arise out of the same transaction, occurrence, or series of transactions or occurrences.

143. Entropic has been damaged as a result of the infringing conduct alleged above. AT&T and DirecTV are liable to Entropic in an amount that compensates Entropic for AT&T and

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DirecTV's infringement, which by law cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

144. Entropic has complied with 35 U.S.C. § 287 with respect to the '008 Patent.

### JURY DEMAND

Entropic hereby requests a trial by jury on all issues so triable by right.

### PRAYER FOR RELIEF

WHEREFORE, Entropic requests that:

A. The Court find that AT&T and DirecTV have directly infringed the Patents-in-Suit and hold DirecTV liable for such infringement;

B. The Court award damages pursuant to 35 U.S.C. § 284 adequate to compensate Entropic for past infringement by AT&T and DirecTV of the Patents-in-Suit, including both preand post-judgment interest and costs as fixed by the Court;

C. The Court increase any award to Entropic by a judicially appropriate amount;

D. The Court declare that this is an exceptional case entitling Entropic to its reasonable attorneys' fees under 35 U.S.C. § 285; and

E. The Court award such other relief as the Court may deem just and proper.

Dated: March 8, 2022

Respectfully submitted,

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