	Case 5:24-cv-03203 Do	cument 1	Filed 05/28/24	Page 1 of 23
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Francisco A. Villegas (Bar No. 2) Damir Cefo (<i>pro hac vice, to be f</i> Mark W. Halderman (<i>pro hac vic</i> Evan M. Rosenbaum (Bar No. 31 fvillegas@villegascefo.com dcefo@villegascefo.com mhalderman@villegascefo.com erosenbaum@villegascefo.com VILLEGAS & CEFO, LLP 1350 Avenue of the Americas, FI New York, NY 10019 Telephone: (646) 844-0679 Mark McDougall mmcdougall@calfee.com (<i>pro ha</i> CALFEE HALTER & GRISWO The Calfee Building 1405 East Sixth Street Cleveland, OH 44114-1607 Telephone: (216) 622-8200 John V. Picone III (Bar No. 1872 jpicone@spencerfane.com SPENCER FANE LLP 225 West Santa Clara Street, Suit San Jose, CA 95113 Telephone: (408) 286-5100 Attorneys For Plaintiff WITHROW NETWORKS, INC.	filed) re, to be file 0414) oor 2 ac vice, to b LD LLP 26) re 1500		OURT
18	NORTHERN DISTRICT OF CALIFORNIA		IFORNÍA	
19			Ι.	
20	WITHROW NETWORKS, INC.	,		24-CV-3203
21	Plaintiff,		COMPLAI	
22	vs.		DEMAND	FOR JURY TRIAL
23	GOOGLE, LLC and YOUTUBE	E, LLC,		
24	Defendants.			
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26				
27				
28			-1-	
	WITHROW NETWORKS, INC.'S COMPLA	INT		

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1	Plaintiff Withrow Networks, Inc. ("Withrow") alleges as follows for its patent infringement
2	Complaint against Defendants Google, LLC ("Google") and YouTube, LLC ("YouTube"),
3	(Google and YouTube collectively, "Defendants").
4	INTRODUCTION
5	1. Historically, video streaming to mobile devices has not been smooth.
6	2. One problem has been the susceptibility of mobile internet networks to changes in
7	available data capacity (e.g., bandwidth) due in part to congestion, connection quality, or
8	infrastructure limitations.
9	3. Moreover, the many mobile device designs (for example, flip-phones, candy bar
10	devices, and touch screens), each with its own technological needs and capabilities, such as
11	different screen sizes, resolutions, and processor limitations, forced streamed video to target the
12	least common denominator in terms of hardware and bandwidth.
13	4. A further issue was the software that made streaming possible, known as a protocol.
14	In the early days of streaming, such protocols (like Real Time Messaging Protocol, "RTMP") were
15	simply not:
16	designed to 'adapt' the size of the encoded and streamed content based on
17	<i>the very specific conditions of a very specific client/player</i> . Instead, there was just 'one version' of the media [yet], more and more types of devices
18	were 'connected,' and more and more environments were being used for
19	playback.
20	Christian Pillsbury, Gone in a Flash: a brief history of HTTP Adaptive Streaming, MUX (Oct.
21	10, 2022), https://www.mux.com/blog/http-adaptive-streaming-history. (emphases added) (last
22	visited May 19, 2024).
23	5. Behind the scenes, at the server level, at least three other problems further
24	complicated matters. First, the hardware was complex. These systems used expensive dedicated
25	media servers to transmit video to mobile devices (known as "clients"). To transmit video, which
26	is a data intensive task, these "stateful" servers kept track of each client session, maintaining
27	information about client data requests and interactions. This architecture, however, made
28	streaming unnecessarily complex, especially in terms of performance and scalability. Second, -2-

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1 these systems were server-focused, meaning that the media servers, instead of the clients, 2 controlled the flow of data, thereby saddling these servers with additional functions. Third, these 3 media servers provided a video stream at a single quality level (supra at ¶¶ 3-4) which could not 4 fully account for changing network conditions at the client.

5

6. In summary, the result was sub-optimal playback. "[T]his time [that] predated 6 today's world of modern smartphones" resulted in video "with less than stellar results" (Pilsbury, 7 supra), especially on devices at each extreme: high-end devices failing to exercise their full 8 streaming potential, and the oldest basic phones possibly receiving merely a black screen.

9 Plaintiff Withrow, through its prior entities,¹ solved at least these problems using 7. 10 technology it invented and claimed in U.S. Patent No. 10,771,849 (the "849 Patent"), attached 11 hereto as **Ex. 1**. 2

12 8. Withrow's innovative technology provided smooth streaming video to mobile 13 devices across the Internet using dynamic adaption of different media quality levels. That is, 14 Withrow's technology, among other things, provided an improved picture even in the presence of 15 fluctuating network conditions. Today, this technology is known as adaptive multi bitrate 16 ("ABR") streaming.

17 9. More specifically, Withrow realized that to provide a fluid streaming experience, 18 video should be encoded into a ladder of different quality levels with associated metadata to enable 19 mobile devices with diverse capabilities to select the proper rung and efficiently decode a media 20 stream.

- 10. 21 These advances also required a different view of streaming hardware. Withrow 22 took a contrarian position to industry orthodoxy by rejecting expensive stateful media servers.
- 23
- 24

²⁵ ¹ Withrow was founded in 2020, but its origin traces to LogoVision Wireless Inc. and its technology commercialization subsidiary, Movidity Inc. Those two latter businesses are now 26 dissolved.

²⁷ ² '849 Patent infringement charts (Exs. 2 and 3) are introduced in the counts of infringement, *infra* ¶¶ 75-82. 28

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1 11. Instead of streaming basic data packets like stateful media servers, the '849 Patent 2 transmitted multimedia objects. Sending data grouped as multimedia objects made possible the 3 use of Hyper Text Transfer Protocol ("HTTP") which is a stateless means of communication. This 4 advancement enabled scalable and efficient streaming through inexpensive web servers (which 5 also made possible communications through firewalls), rather than the costly and technically-6 complex solutions employing dedicated (stateful) media servers.

7 12. In addition to the problems with stateful architecture, Withrow solved problems 8 caused by diverse client hardware, such as varying processor, screen and resolution capabilities.

9 13. The '849 Patent solved these problems by, at a minimum, creating a streaming data 10 structure that joined multimedia objects with metadata describing the video streams, allowing 11 clients to account for their diverse capabilities. Moreover, with a client-based approach, the client 12 (*i.e.*, mobile device) could tell the server how to send the data. The result was optimized playback 13 of computationally intensive media even on modest mobile device hardware, which otherwise 14 would have been solely possible on wired desktop computers.

15 14. The technology that resulted in the '849 Patent was immediately recognized as 16 groundbreaking. For instance, on information and belief, in December 2005, ARM Ltd., the 17 primary microprocessor manufacturer at the time for mobile phones, believed Withrow's 18 technology provided a highly optimized, true MPEG4 (and for audio true AAC) decoder for mobile 19 clients possessing a "*unique*" adaptive rate media object transmission model. As such, it is 20 unsurprising that ARM Ltd. licensed the Withrow technology to demonstrate high-performance 21 MPEG-4 Part 2 video streaming.

22 15. Below is an example of Withrow's ABR technology on a Blackberry device, which, 23 on information and belief, comes from 2006:

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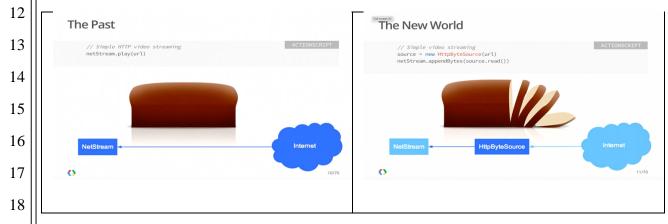
WITHROW NETWORKS, INC.'S COMPLAINT

	Case 5:24-cv-03203 Document 1 Filed 05/28/24 Page 5 of 23
1 2 3 4 5 6 7 8	16. By mid-2006, major platforms, such as those of Qualcomm and Sprint, were demonstrating the Withrow mobile ABR technology:
9	ARM will be demonstrating the Movidity player upon a Qualcomm
10	platform, with Sprint's mobile wireless network. This joint demonstration between ARM, Sprint, Qualcomm and Movidity underscores the
11 12	significance of each organization in the realm of advanced mobile multimedia. The performance of Movidity's multimedia player will be
12	matched with the capabilities of the ARM enabled Qualcomm mobile device platform and Sprint's advanced wireless network, allowing attendees
14	to experience the next generation in mobile multimedia.
15	Ex. 4, Press Release, Movidity (May 12, 2006). ³
16	17. In addition to its work with hardware manufacturers, by 2007 Movidity developed
17	Movy.tv—a client-facing mobile ABR media sharing system that provided live and on-demand video streaming.
18	Welcome to movy.tvl
19	movy.tv is the worlds first fully user interactive mobile multimedia enabling system, designed for Internet and global mobile use. It allows corporations, consumers, content creators and broadcasters to instantly upload and stream multimedia content through the Internet to mobile devices such as cell phones, Blackberry and PDA's. Individuals can join movy.tv for free!
20	Please bear with us as we activate mobile & web based features and work to improve the system. We also need your help to test and improve movy.tv! If you have experiences or constructive suggestions, please email us at <u>contact@movy.tv</u>
21	System Status
22	Movy.tv now supports Embedded Hardware 3gp players for cell phones: initially Sony Ericcson, Blackberry 8800 & Curve and Nokia, soon to be followed by LG, other Korean phones and certain Motorola handsets. See <u>HOW-TO</u> New release for Movy.tv cell phone client for gam and cdma handsets 06/05/2007 - See <u>HOW-TO</u> New version of the client for Blackberries 8100, 8700 and 8800 on June 5, 07. See <u>HOW-TO</u> New version of the client for Blackberries 8100, 8700 and 8800 on June 5, 07. See <u>HOW-TO</u>
23 24	28/09/07 movy.tv is enabled on Samsung handsets Why is movy.tv so drastically different? See INFO
24	How do you use movy.tv? See <u>HOW-TO</u>
26	Movy.tv, www.movy.tv (as of Oct. 17, 2007 on Wayback Machine).
27 28	³ Page citations within this Complaint refer to the page of the exhibit, <i>i.e.</i> , the PDF, and not the internal pagination, if any, unless otherwise noted.
	-5-
	WITHROW NETWORKS, INC.'S COMPLAINT



22. In short, Withrow's HTTP-based mobile streaming technology solved the
 aforementioned mobile streaming challenges years before its nearest competitor. Indeed, other
 than Withrow's patented technology, it is well documented that "there was nothing that even
 remotely resembled a 'stream' in HTTP in 2008, let alone anything that was designed specifically
 to help with streaming media." Pillsbury, *supra*.

6 23. It was not until 2009 that Defendants realized a better and more efficient manner of
7 transmitting videos was necessary. That was the start of Defendants' aptly named, "Sliced Bread"
8 project with Adobe Inc. ("Adobe"). Google explained that before acquiring ABR technology from
9 Adobe, it was "delivering video in giant loaves of bread" to the end user. After incorporating
10 sliced video into their streaming services, Defendants pronounced this technology as "The New
11 World":



19 Google I/O 2013 - Adaptive Streaming for You and YouTube, at 2:52 and 3:12,

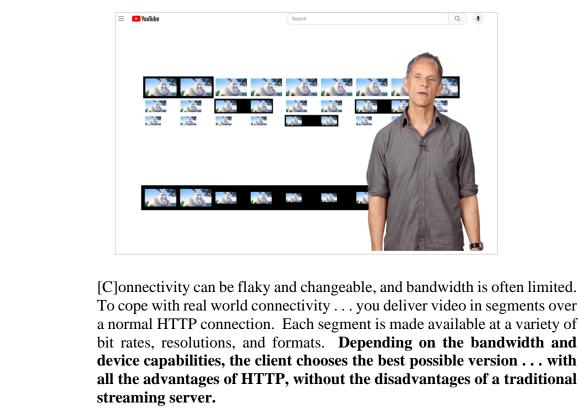
20 || https://www.youtube.com/watch?v=UklDSMG9ffU (last visited May 15, 2024).

24. While this concept may sound easy, it was not. According to YouTube, "One of
the core axioms of engineering work at YouTube . . . is [that] playing videos is hard, surprisingly
hard." *Id.*, at 17:30-17:42. To develop a fully functional ABR system (with Adobe's help),
Defendants stated that it "took us . . . 4 years [for this project] from start to finish more or less –
we spent months finding bugs and . . . launching experiments and trying to figure out where all the
problems" were. *Id.* at 11:54-12:10.

27 25. Moreover, while slicing data may have addressed bandwidth issues, Defendants
28 also had to address the "hardware . . . limitations that prevented the mobile experience from

keeping up with YouTube on desktop." Ex. 5, Andrey Doronichev, *YouTube Mobile gets a kick start*, YouTube Official Blog (Jul 7, 2010).

26. A comprehensive solution was needed. Eventually, industry developed standards
that coopted the '849 Patent's technology, including HTTP Live Streaming ("HLS") (published in
2009) and Dynamic Adaptive Streaming over HTTP ("MPEG-DASH") (published in 2012)—the
streaming standards at issue in this case. As used by Defendants, these standards provide solutions
to the problem of fluid video playback on mobile devices—the same problem that Withrow's
technology solved years earlier:



22 Shaka Player: High Performance Video for the Web (Google Developers), at 0:39-1:21

- 23 || (discussing MPEG-DASH, but equally applicable to HLS),
- 24 || https://www.youtube.com/watch?v=Fm3Bagcf9Oo (last visited May 15, 2024) (emphasis
- $25 \parallel added$).

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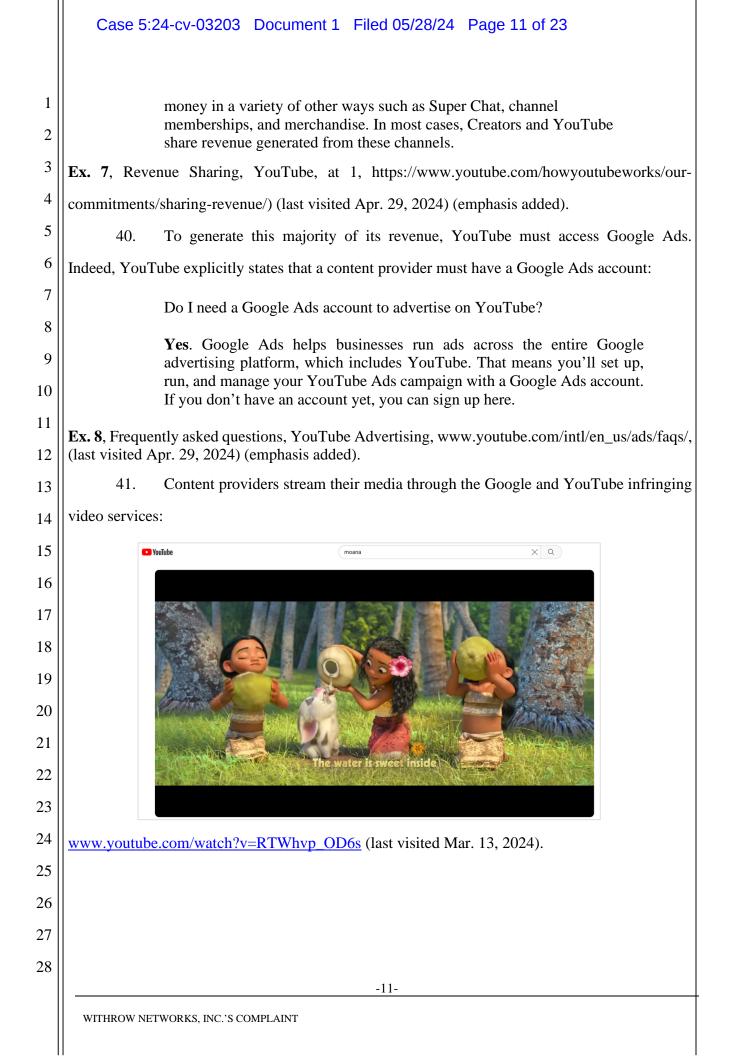
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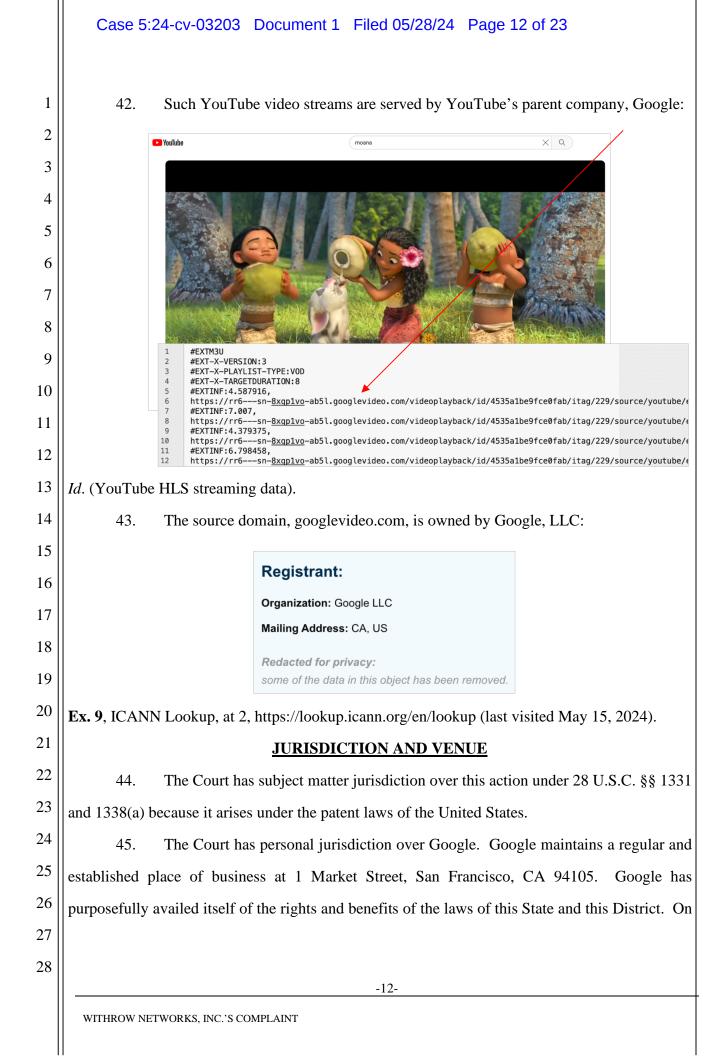
- 26 27. On information and belief, Defendants place great value on their mobile streaming
- 27 products and services. Nearly fourteen years ago, they predicted this market to be "huge and
- 28 growing fast." **Ex. 5**, Doronichev, *supra*.

-8-

1	1 28. In fact, Defendants found the growth in mobile	streaming to be "surprising," noting
2	2 that YouTube mobile received "roughly the number of daily	playbacks that YouTube.com was
3	3 streaming when we joined forces with Google in 2006." <i>Id.</i>	
4	4 29. Unfortunately for Defendants, that great value	is attributable to their infringement
5	5 of the '849 Patent, and the Defendants must compensate With	row for their unauthorized use.
6	6	
7	7 <u>NATURE OF THE ACTIO</u>	<u>N</u>
8	8 30. This is a civil action for patent infringement ari	sing under 35 U.S.C. § 100, et seq.,
9	9 and in particular, § 271 pertaining to: Google and YouTube's	s implementations of the streaming
10	10 standards MPEG-DASH and HLS on mobile devices.	
11	11 PARTIES	
12	12 31. Plaintiff Withrow is a Canadian company with	h a principal place of business in
13	13 Toronto, Ontario, Canada M4K 1W6.	
14	1432.Defendant Google is a Delaware limited liability	y company with a principal place of
15	15 business located at 1600 Amphitheatre Parkway, Mountain Vie	ew, California. Google maintains a
16	16 regular and established place of business in this District.	
17	1733.Defendant YouTube is a Delaware limited liabi	lity company with a principal place
18	18 of business located at 901 Cherry Avenue, San Bruno, Califor	rnia. YouTube maintains a regular
19	19 and established place of business in this District.	
20	20 34. YouTube is wholly owned by Google, and, at a	all times relevant to the allegations
21	21 herein, has acted in concert with and/or at the direction of Goo	gle.
22	22 35. YouTube's Terms of Service under the "Your S	ervice Provider" section state, with
23	23 respect to YouTube's services, that "[t]he entity providing th	ne Service is Google LLC." Ex. 6,
24	24 Terms of Service, YouTube, at 3, https://www.youtube.com/	/static?template=terms (last visited
25	25 Mar. 13, 2024). Thus, Google exercises direction and control of	over YouTube's streaming services.
26	26 36. YouTube's Terms of Service also state that ma	ny of YouTube's services can only
27	27 be used if the customer has a Google account:	
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1 2 3 4 5 6	 Google Accounts and YouTube Channels You can use parts of the Service, such as browsing and searching for Content, without having a Google account. However, you do need a Google account to use some features. With a Google account, you may be able to like videos, subscribe to channels, create your own YouTube channel, and more. You can follow these instructions to create a Google account. <i>Id.</i> at 4-5 (emphasis added). Thus, YouTube is an agent of Google as an account with the latter is 	
7	required to access the services of the former.	
8	37. YouTube encourages content providers to upload videos to its website for which	
9	YouTube will provide royalty payments. YouTube's Terms of Service makes clear that Google,	
10	not YouTube, will withhold taxes for such payments by YouTube to its content providers:	
11	Right to Monetize	
12	You grant to YouTube the right to monetize your Content on the Service	
13 14	(and such monetization may include displaying ads on or within Content or charging users a fee for access) [A]ny payments you may be entitled to receive from YouTube will be treated as royalties [and] [i]f required by law, Google will withhold taxes from such	
15	payments.	
16	Id. at 9 (emphasis added). Again, YouTube is an agent of Google as the latter takes tax	
17	responsibility on behalf of YouTube.	
18	38. As the YouTube video service is controlled by Google, the parent company is a real	
19	party in interest in terms of enforcing YouTube Community Guidelines ("Guidelines"). For	
20	example, if a user's access to YouTube is restricted due to a violation of the Guidelines, "Google	
21	reserves the right to terminate [the user's] Google account or [the user's] access to all or part of	
22	the Service." Id. at 10.	
23	39. Google and YouTube are also financially intertwined. YouTube generates the	
24	majority of its revenue through advertisements displayed on its streaming service:	
25	How does YouTube make money?	
26	YouTube's main source of revenue is advertising. Additionally, we earn	
27	money from our monthly subscription businesses such as YouTube Premium. We've also developed tools to help eligible Creators earn	
28	-10-	





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information and belief, with respect to the allegations outlined in this Complaint, Google also has
 committed acts of infringement in this District.

46. The Court has personal jurisdiction over YouTube. On information and belief,
YouTube maintains a regular and established place of business at 901 Cherry Avenue, San Bruno,
CA 94066. YouTube has purposefully availed itself of the rights and benefits of the laws of this
State and this District. On information and belief, with respect to the allegations outlined in this
Complaint, YouTube also has committed acts of infringement in this District.

8 47. On information and belief, Google operates infringing video streaming
9 infrastructure in this District through at least itself, YouTube, or both.

10 48. On information and belief, YouTube operates infringing video streaming 11 infrastructure in this District through at least itself, Google, or both. In fact, YouTube's 12 headquarters are identified as owned by Google, "You can contact YouTube at the address below. 13 YouTube, 901 San 94066." Google LLC, D/B/ACherry Bruno. CA Ave., 14 https://www.youtube.com/t/contact_us?hl=en_GB (last visited May 15, 2024).

49. Venue is proper in this District under 28 U.S.C. §§ 1391 and 1400(b) because,
among other things, Google and YouTube have regular and established places of business in this
District, engaged in a substantial number of events giving rise to Withrow's claims in this District,
and have committed acts of infringement in this District.

19

FACTUAL BACKGROUND

20 || The '849 Patent

21 50. On September 8, 2020, the United States Patent and Trademark Office issued the
22 '849 Patent, entitled, "MULTIMEDIA SYSTEM FOR MOBILE CLIENT PLATFORMS."

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51. Withrow is the assignee and owner of all rights, title, and interest in and to the '849 Patent, including the right to assert all causes of action arising under the '849 Patent, and the right to all remedies for its infringement.

26 52. Prior to the inventions of the '849 Patent, the delivery of audio and video to mobile
 27 devices faced numerous technical problems that negatively affected video quality. Unlike desktop
 28 computers, which were generally limited to a few standardized configurations that had ample
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processing power to effectively stream video, mobile device streaming at the time of the invention
suffered from a plethora of device design choices, such as variations in screen sizes, and
fragmented technologies coupled with "limited resources" (*e.g.*, processor capabilities), which
were viewed as "bottle necks" to streaming performance. **Ex. 10**, Krešimir Fertalj & Marko
Horvat, *Comparing Architectures of Mobile Applications*, at 1 (2007).

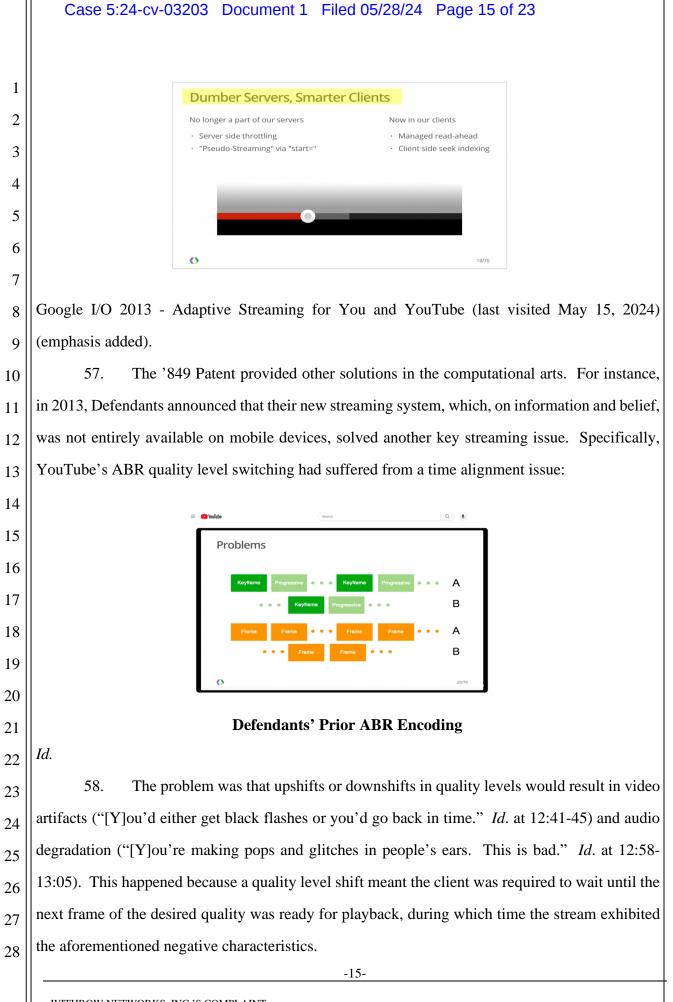
53. The '849 Patent addressed these problems. For example, the invention provides for
object parameters in the video stream to account for the hardware limitations of mobile devices. *Supra* at ¶¶ 11,13.

9 54. A different problem around the time of the '849 Patent invention was the system 10 architecture. Mobile device streaming centered on a server monitoring and controlling the 11 streaming process. This model, where the server pushed data to the client, required server 12 management of the selected data stream and, by nature, resulted in a more complex architecture as 13 the server must store the state of each stream. Pillsbury, supra ("[E]xisting standards ... relied on 14 highly specialized server . . . and highly specialized clients . . . [and] RTMP and protocols like it 15 were inherently and deeply session based and stateful between client and server.").

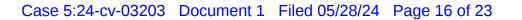
16 55. The '849 Patent's client-centric streaming approach (disclosed in its 2005 patent
17 filing) was an improvement over the stateful, dedicated server model.

18 56. Six years after the filing of the application that resulted in the '849 Patent, industry 19 groups arrived at the same conclusion as Withrow: "[A] client-centric approach [has] no session 20 state in network," which improves scalability, and importantly, is more effective because the 21 "client has the best view of network conditions." Ex. 11, Mark Watson, HTTP Adaptive Streaming 22 in Practice, ACM MMSys 2011, at 8. Industry further realized that by using HTTP to provide 23 stateless data transmission, a client could benefit from operational metrics because, during the 24 course of streaming, "only the client knows what really happened anyway." Id. It took, however, 25 several more years for Defendants to appreciate these benefits:

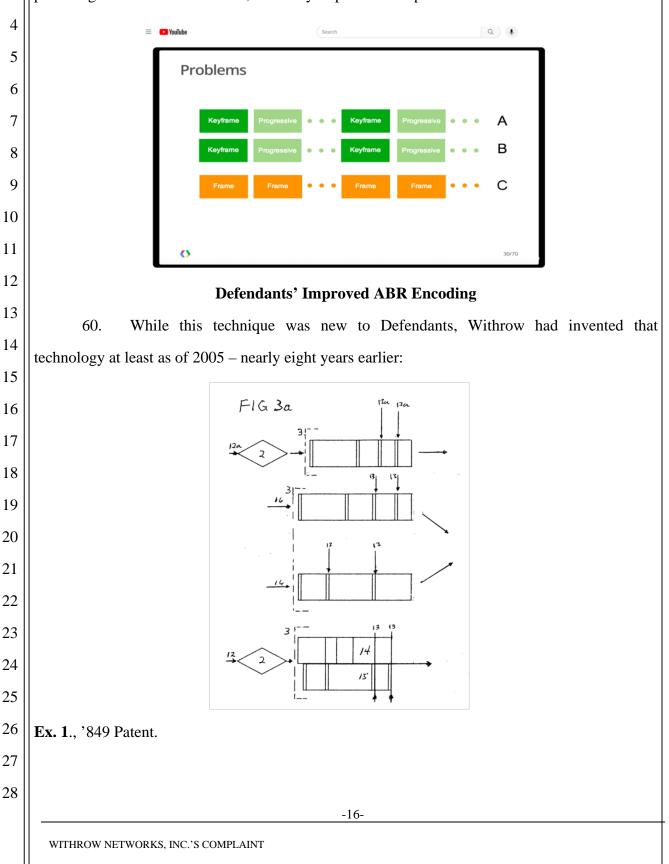
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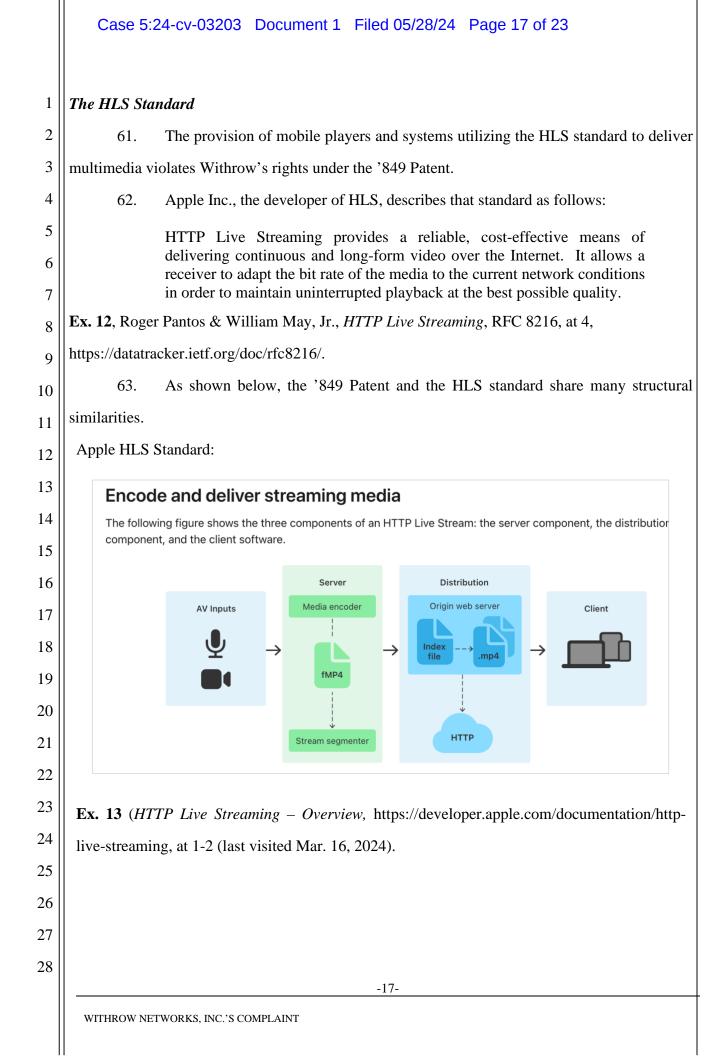


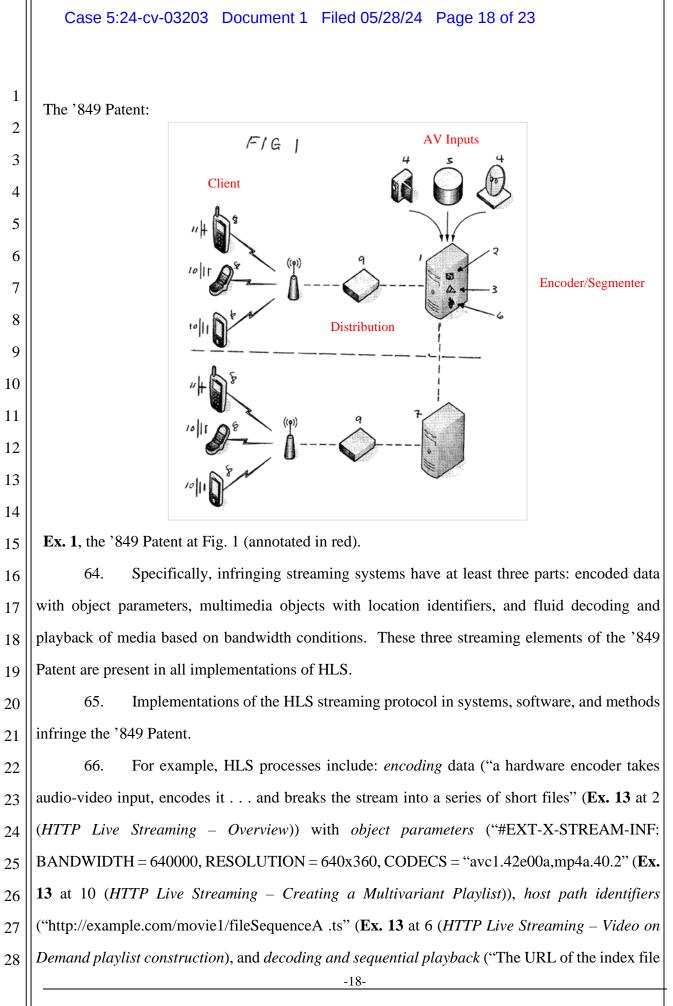
WITHROW NETWORKS, INC.'S COMPLAINT



Second Structure
 At the 2013 I/O conference, Defendants announced their solution to the world: first
 encode all the data to make it time aligned, and then jump the stream at key locations, thereby
 providing a fluid video broadcast, "to really improve the experience." *Id.* at 13:29-40.

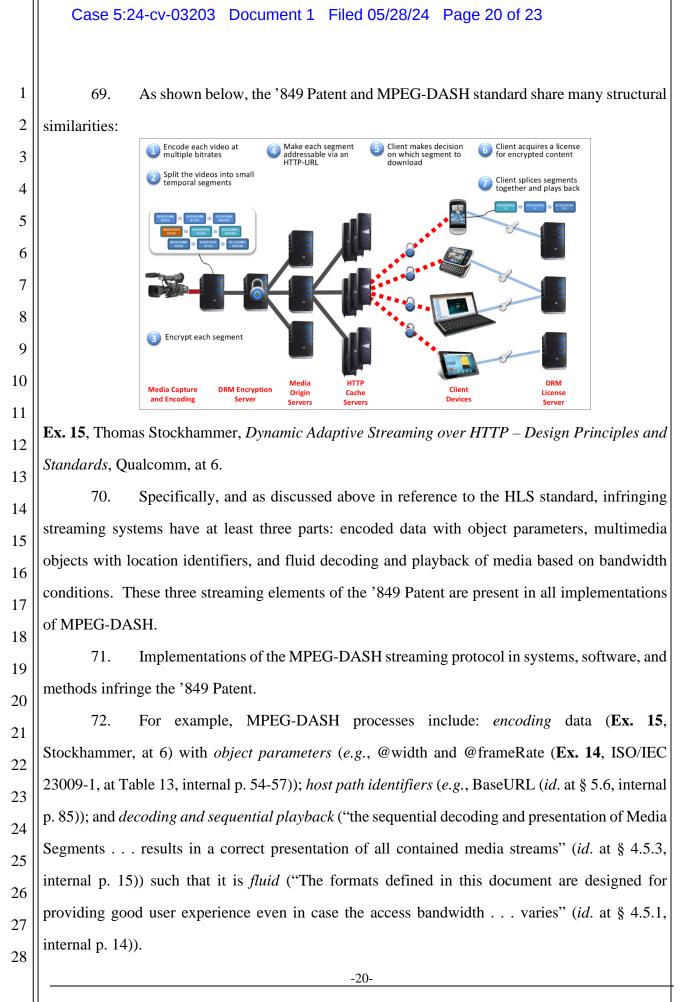






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1	is published on the web server then requests the listed media files in order and displays them				
2	without any pauses or gaps between segments" (Ex. 13 at 2 (HTTP Live Streaming – Overview))				
3	such that it is <i>fluid</i> ("minimize stalling of playback, to give the user the best possible streaming				
4	experience" (Ex. 13 at 9 (HTTP Live Streaming – Creating a Multivariant Playlist)).				
5	The MPEG-DASH Standard				
6	67. The provision of mobile players and systems that utilize the MPEG-DASH standard				
7	to deliver multimedia violates Withrow's rights under the '849 Patent.				
8	68. The MPEG-DASH standard is described as follows:				
9 10 11	[MPEG-DASH] specifies formats that enable delivery of media content from standard HTTP servers to HTTP clients				
12	[This format] provides sufficient information for a client to provide a streaming service to the user by accessing the Segments through the				
13	protocol specified in the scheme of the defined resources				
14	[This format] provides sufficient information for the DASH Client to				
15	provide a streaming service to the user by requesting Segments from an HTTP server and demultiplexing, decoding and rendering the included				
16	media streams.				
17	Ex. 14 Information technology — Dynamic adaptive streaming over HTTP (DASH), ISO/IEC				
18	23009-1, at § 4.1 "System Description," internal p. 8-9 (3d Ed. 2019).				
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	WITHROW NETWORKS, INC.'S COMPLAINT				



1 || YouTube's Infringement of the '849 Patent

73. On information and belief, YouTube has infringed the '849 Patent at least by
providing its streaming services to mobile devices that use YouTube player applications and webbased applets (such as on www.youtube.com and m.youtube.com) through implementations
utilizing MPEG-DASH, HLS, or both (the "YouTube Infringing Solutions") (*see*, Ex. 2
Infringement Chart with respect to the HLS Standard; and Ex. 3, Infringement Chart with respect
to the DASH standard).

8 Google's Infringement of the '849 Patent

9 74. On information and belief, Google has infringed the '849 Patent (including by at
10 least its control and direction over YouTube) at least by providing its streaming services to mobile
11 devices that use YouTube player applications and web-based applets (such as on
12 www.youtube.com and m.youtube.com) through implementations utilizing MPEG-DASH, HLS,
13 or both (the "Google Infringing Solutions") (*see*, Ex. 2 Infringement Chart with respect to the HLS
14 Standard; and Ex. 3, Infringement Chart with respect to the DASH standard).

COUNT ONE

Patent Infringement By Google

17 75. Withrow incorporates by reference each of the preceding paragraphs of this18 Complaint.

19 76. Google has directly infringed at least claim 1 of the '849 Patent, pursuant to 35
20 U.S.C. § 271(a), literally or under the doctrine of equivalents, through its making, using, selling
21 and/or offering for sale of the Google Infringing Solutions. For example, Google's infringement
22 of the '849 Patent is shown in the attached charts hereto. Ex. 2, HLS Infringement Chart; Ex. 3,
23 MPEG-DASH Infringement Chart.

77. On information and belief, Google, YouTube, and/or third parties provide the
Google Infringing Solutions with streaming content, but, regardless of the content provider,
Google controls or practices each and every element of at least independent claim 1 of the '849
Patent. Moreover, while particular deployments of each of the Google Infringing Solutions may

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vary, Google infringes for every deployment that implements HLS, MPEG-DASH or both
 standards for streaming.

3 78. Google's infringement of the '849 Patent has violated Withrow's intellectual
4 property rights in an amount to be determined at trial.

COUNT TWO

Patent Infringement By YouTube

79. Withrow incorporates by reference each of the preceding paragraphs of this Complaint.

80. YouTube has directly infringed at least claim 1 of the '849 Patent, pursuant to 35
U.S.C. § 271(a), literally or under the doctrine of equivalents, through its making, using, selling
and/or offering for sale of the YouTube Infringing Solutions. For example, YouTube's
infringement of the '849 Patent is shown in the attached charts hereto. Ex. 2, HLS Infringement
Chart; Ex. 3, MPEG-DASH Infringement Chart.

14 81. On information and belief, Google, YouTube and/or third parties provide the
15 YouTube Infringing Solutions with streaming content, but, regardless of the content provider,
16 YouTube controls or practices each and every element of at least independent claim 1 of the '849
17 Patent. Moreover, while particular deployments of each of the YouTube Infringing Solutions may
18 vary, YouTube infringes for every deployment that implements HLS, MPEG-DASH or both
19 standards for streaming.

20 82. Accordingly, YouTube's infringement of the '849 Patent has violated Withrow's
21 intellectual property rights in an amount to be determined at trial.

PRAYER FOR RELIEF

WHEREFORE, Withrow respectfully prays for relief as follows:

A. Judgment that Defendants have infringed one or more claims of the '849 Patent;

B. An award of damages pursuant to 35 U.S.C. § 284 in an amount sufficient to
compensate Withrow for the harm caused by Defendants' infringement, not less
than a reasonable royalty for the use made of the invention, along with pre- and
post-judgment interest;

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1 2 3 4 5	 C. An order for an accounting of damages from the Defendants' infringement(s); D. Declare this case exceptional and award Withrow its costs, expenses, and attorneys' fees pursuant to 35 U.S.C. § 285; and E. An order awarding to Withrow such other and further relief, whether at law or in equity, that this Court deems just, equitable, and proper. 		
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7	JURY DEMAND		
8	Pursuant to Federal Rule of Civil Procedure 38(b) and Civil Local Rule 3-6(a), WITHROW		
9	hereby demands a trial by jury on all issues so triable.		
10			
11 12	Dated: May 28, 2024		
12	By: /s/ John V. Picone III		
14	Francisco A. Villegas Damir Cefo (<i>pro hac vice, to be filed</i>)		
15 16	Mark W. Halderman (<i>pro hac vice, to be filed</i>) Evan M. Rosenbaum VILLEGAS & CEFO LLP		
17	Mark McDougall (<i>pro hac vice, to be filed</i>) CALFEE HALTER & GRISWOLD LLP		
18	John V. Picone III SPENCER FANE LLP		
19	Attorneys for Plaintiff		
20 21	WITHROW NETWORKS, INC.		
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	WITHROW NETWORKS, INC.'S COMPLAINT		