at least one signal splitter, the signal splitter having a common port and a plurality of tap ports, the common port of the signal splitter being coupled to the filter; and

a plurality of terminal devices, each terminal device being coupled to a tap port of at least one signal splitter, at least one of the terminal devices providing frequency bins with more transmit bits which occupy parts of the channel where the signal to noise ratio (SNR) is high;

wherein the reflections from the filter provide a path for terminal devices back through the tap port of the signal splitter and out each other tap port to transmit signals to other terminal devices thus allowing terminal devices to communicate directly with each other to form the signal distribution network.

2. The signal distribution network of claim **1**, wherein at least one of the communication channels between terminal devices uses time division duplex protocol for communications and the communications are synchronized by broadcasting a beacon message on the network.

3. The signal distribution network of claim **2**, wherein the power level of each OFDM carrier is adjusted according to the signal loss at each OFDM carrier frequency to overcome frequency selective channel impairments caused by the reflections from the filter.

4. The signal distribution network of claim **1**, wherein the signal modulation used by the terminal devices is orthogonal frequency division multiplexing (OFDM) and the modulation order of each OFDM carrier is adjusted according to the signal to noise ratio (SNR) at each OFDM carrier frequency to overcome frequency selective channel impairments caused by the reflections from the filter.

5. A broadband local area network using coaxial cable building wiring as a communication channel, the network comprising:

a plurality of terminal devices, each terminal device communicating with other terminal devices using orthogonal frequency division multiplexing (OFDM) modulation, at least one of the terminal devices providing frequency bins with more transmit bits which occupy parts of the channel where the signal to noise ratio (SNR) is high;

a network of building cables coupled to the plurality of terminal devices; and

a filter having a first and second port, the first port connected to a building point of entry and the second port connected to the plurality of terminal devices via the network of building cables, wherein signals transmitted by any of the terminal devices and received at the second port of the filter are rejected by the filter such that such signals do not pass through the filter, but rather are reflected back into the network of building cables in order to create a communication path between the transmitting terminal device and at least one other terminal device coupled to the network of building cables.

6. The broadband local area network of claim **5** wherein the modulation order of each OFDM carrier is adjusted according to the signal to noise ratio (SNR) at each OFDM carrier frequency to overcome frequency selective channel impairments present in the coaxial building wiring caused by the reflections from the filter.

7. The broadband local area network of claim **5**, wherein the power level of each OFDM carrier is adjusted according to the signal loss at each OFDM carrier frequency to overcome frequency selective channel impairments present in the coaxial building wiring caused by the reflections from the filter.

8. The broadband local area network of claim **5** wherein the frequency used for communicating is above the cable television band.

9. The broadband local area network of claim **5**, wherein at least one of the communication channels between terminal devices uses time division duplex protocol for communications and the communications are synchronized by broadcasting a beacon message on the network.

10. A broadband local area network for transmitting modulated signals using coaxial cable building wiring containing a plurality of branches comprising:

a filter located at the point of entry of the building wiring that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring;

at least one signal splitter;

a plurality of terminal devices connected to the wiring branches, each terminal device capable of communicating with other terminal devices the reflected signal path created by the filter, wherein the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals.

11. The network of claim **10** wherein the equalization is frequency domain equalization.

12. The network of claim **10** wherein the equalization is time domain equalization.

13. The network of claim **10** wherein the equalization is adaptive.

14. The network of claim **13** wherein the terminal devices use orthogonal frequency division multiplexing (OFDM) modulation to overcome the communication channel impairments caused by the reflected signals.

15. The network of claim **14** wherein the terminal devices use forward error correction to recover the transmitted signals without errors.

16. The network of claim **10** wherein the terminal devices use orthogonal frequency division multiplexing (OFDM) modulation to overcome the communication channel impairments caused by the reflected signals.

17. The broadband local area network of claim **10**, wherein at least one of the communication channels between terminal devices uses time division duplex protocol for communications and the communications are synchronized by broadcasting a beacon message on the network.

* * * * *

Exhibit 1013

"Single Chip Subscriber Cable Modem," Rahman et al., IEEE (1997)

Customer No.: 000027683

Haynes and Boone, LLP
IP Section
2323 Victory Avenue, Suite 700
Dallas, Texas 75219
Telephone [214] 651.5000
Fax [214] 200.0853

Single Chip Subscriber Cable Modem

Syed Rahman, Ph.D. Hossein Dehghan, Ph.D.
Senior System Engineers
Ahmed Said, Technical Director, and IEEE Senior Member
Stanford Telecom

Abstract

The ever increasing consumers demand for bandwidth and physical limits of conventional wireline modems have led to development of alternative high rate data transmission solutions. One promising such alternative is transmission of data over the existing hybrid-fiber coax (HFC) network.

Stanford Telecom has developed a low cost single chip subscriber modem, STEL-2176 "SuperChip", for HFC applications. Development of novel algorithms, optimized application of existing robust algorithms and efficient hardware implementation have made STEL-2176 a commercially viable high performance ASIC.

This paper will address the achievements of Stanford Telecom in developing the downstream demodulator portion of this system.

1.0 Introduction

With the release of MCNS (Multimedia Cable Network Systems) specifications for Data-Over-Cable Interface, the competition to build a high performance, low cost subscriber cable modem is moving at a very high speed. The stringent requirements, on both upstream modulator and downstream demodulator, make the realization of this task difficult. Adding to this the price sensitivity of such a product, makes the job of the chip designer even more difficult.

An efficient hardware implementation and a high degree of integration made the STEL-2176 the first commercial IC to combine the upstream modulator and downstream demodulator on a single chip. The modulator is designed to transmit 4/16-QAM (quadrature amplitude modulation) signals, with or without Reed-Solomon encoding. The demodulator is capable of receiving 16/64/256-QAM signals and provides ITU-T J.83 Annex-A and Annex-B forward error correction.

STEL-2176 is fully compliant with both MCNS and DAVIC (digital audio-visual committee) standards, and covers nominal symbol rates of 5 Mbaud and 7 Mbaud. The programmable matched filter can operate at a wide selection of excess bandwidths (12 to 18%) as called for by different standards.

The high degree of integration along with full programmability makes this 3.3V, 0.35 micron chip highly versatile and able to operate under severe channel conditions.

The focus of this paper is on the downstream demodulation function of STEL-2176. Sections 2 and 3 discuss the front-end and timing recovery functions. Equalizer and carrier recovery are dealt with in Sections 4 and 5 respectively and section 6 summarizes the paper.

0-7803-4303-4/97/$10.00 1997 IEEE

2.0 Front End

In this section the analog off chip requirements as well as the digital front end of STEL-2176 modem will be discussed. A block diagram of the chip's front end blocks and the analog interfacing circuitry is shown in Figure 1. In the following sections we will discuss the front end functions of gain control and down conversion.

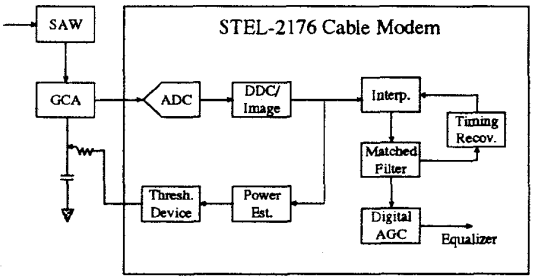


Figure 1: STEL-2176 "SuperChip" front end block diagram.

2.1 Automatic Gain Control

The downstream cable signal can have power level variations of as much as 30 dB. Full digital accommodation of this dynamic range requires 5 extra bits from ADC, so the signal level should be adjusted in analog domain. However since QAM decision level boundaries are too close (~0.5 dB for 256-QAM) the gain adjustments should be smaller and digitally trackable, limiting the loop bandwidth of the AGC. A typical convergence curve of the AGC circuit is shown in Figure 2.

STEL-2176 uses a hybrid analog/digital automatic gain control circuit. This circuit uses an on-chip digital signal power estimator and a programmable threshold device outputting a single bit indicating whether the signal should be amplified or attenuated. The serial bits are then low pass filtered (or integrated) over time to control the gain of the variable gain amplifier (see Figure 1). A second threshold device and output bit is also provided for customers who prefer a 2 stage gain control function.

An on-off switchable digital AGC is available after the matched filter to boost the signal power up in applications where (such as MCNS) the ADC needs to be significantly underdriven to accommodate large adjacent channels.

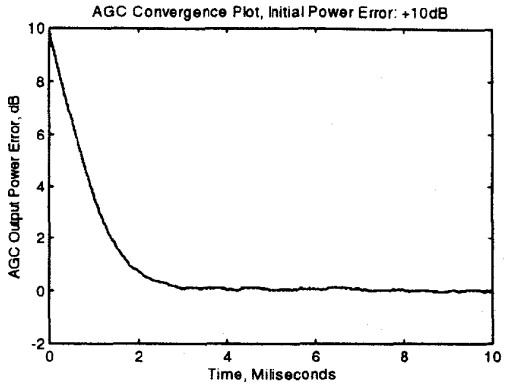


Figure 2: 256-QAM AGC Convergence Curve. Initial Gain Error=10dB.

2.2 Down Conversion

STEL-2176 uses a three step down conversion process. The signal is first down converted from RF to a pre-specified intermediate frequency in the analog front end. The IF frequency depends on the center frequency of the channel selecting SAW filter, which is approximately 44MHz for the U.S. standard 6MHz bandwidth channels (36 for 8MHz European standard.)

The IF signal is directly sampled by an on-chip 10 bits ADC at 25Msps (29Msps) or slightly more than 4 times the symbol rate. The clock frequencies were carefully chosen to alias back the signal to the desired center frequency of 6MHz (8MHz) in digital domain. This signal is then translated to baseband by a digital down converter and the image component is then removed. The timing recovery/interpolator circuit then

decimates the signal down to exactly 4 samples per symbol at which point it is matched filtered. The matched filter is an excess bandwidth programmable square root raised cosine FIR filter.

3.0 Timing Recovery

The Proper recovery and tracking of timing frequency and phase is essential for detection of any modulated signal. For satisfactory performance in multilevel QAM systems, the timing error must be an increasingly smaller fraction of symbol timing as the number of levels increase. Timing error can be in the from of timing phase offset and jitter as well as frequency.

The use of an equalizer in a receiver system can help with timing phase offset. This is specially true when using a T/2 spaced equalizer. Figure 3a shows a 256-QAM (with 40dB input SNR) signal quality as a function of timing offset, after equalization with a T spaced adaptive hybrid equalizer. It can be seen that the presence of the equalizer keeps the system insensitive to small timing offset errors.

Timing jitter, however, is very critical even in the presence of an equalizer, due to it's rapid changing nature which makes it untrackable for the equalizer. Figure 3b shows a QAM signal quality versus root-mean-squared (rms) timing jitter. It can be seen that 1 degree rms timing jitter results in a maximum achievable SNR of 37dB, which is comparable to Annex A specification of 36dB. This shows that for reliable detection of 256-QAM, we require sub-degree rms jitter.

To satisfy the stringent jitter specifications a novel timing recovery algorithm with a second order rated phased locked loop was developed. This algorithm has at its heart a robust and optimum timing error detection algorithm that dramatically reduces timing jitter as well as offset. This timing recovery scheme performed remarkably well even for small excess bandwidth signal (12%). Figure 4 shows the tracking performance of the timing recovery circuit for a 256-QAM signal.

Furthermore an all digital and fully integrated clocking circuit was used to make the product more marketable as well as better testable. By integrating the analog to digital converter and oscillator and frequency synthesizer onto the chip the need for expensive analog off-chip components as well as possible analog-digital interfacing difficulties for customers was eliminated. Using a fixed clock, we also eliminated the oscillator tuning issues and made the chip more testable.

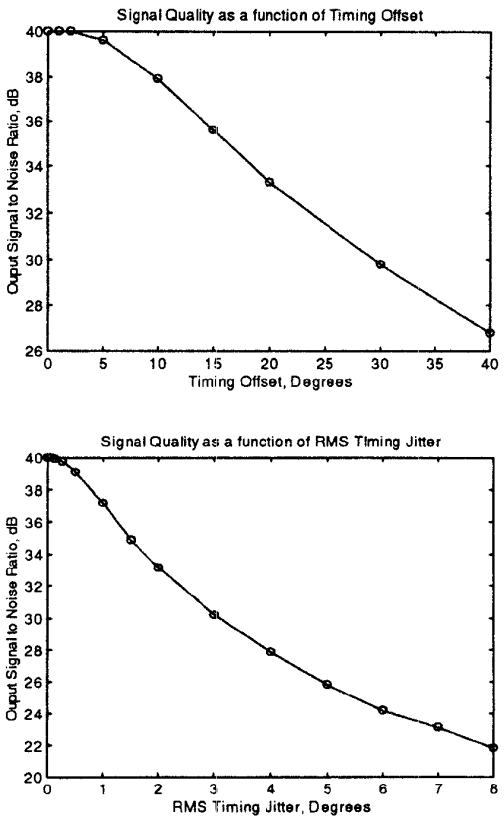


Figure 3: 256-QAM signal quality versus timing impairments, **a:** offset, **b:** jitter. Input SNR=40dB.

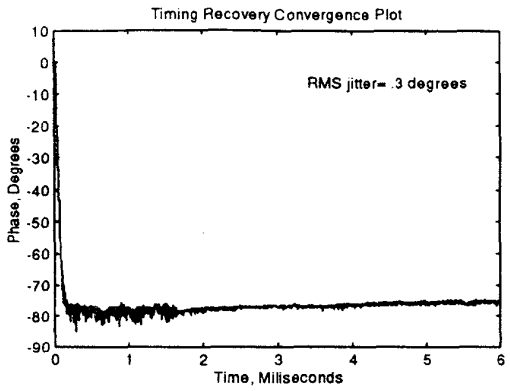


Figure 4: Timing Recovery convergence curve for a 256-QAM signal with 35dB SNR.

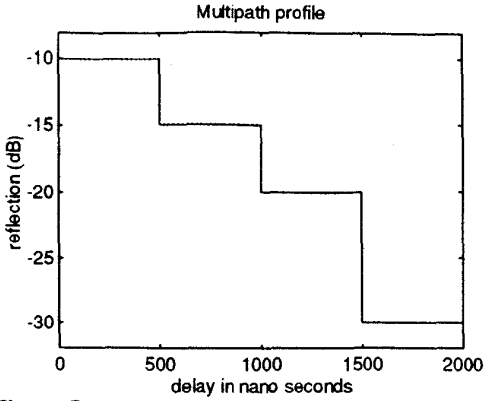


Figure 5

4.0 Equalization

The STEL-2176 uses a decision feed back equalizer (DFE), with 16 (symbol spaced) feed forward and 8 feed-back taps. The feed-forward equalizer initially operates in the blind mode and then is switched to the decision directed mode. In the blind mode, the constant modulus algorithm (CMA) is used to update the tap coefficients, and in the decision directed mode the LMS (least mean square) algorithm is used. The blind equalization is done to reduce the symbol error rate to a level where the decision directed mode can begin operating safely. The switching from the blind mode to the decision directed mode is done automatically, based on the SNR (computed by a SNR calculating routine). The SNR level for switching is programmable. The switching can also be done based on the number of symbols.

Both the initialization and the location of the center tap are programmable. During the acquisition, the step size parameters can be programmed to take any value (from a given set), at any desired time.

The equalizer is designed to equalize the multipath profile given in the MCNS specifications (Figure 5), as well as 5% AM-hum and +/- 3 dB gain.

5.0 Carrier Recovery

The STEL-2176 has a very fast carrier acquisition capability. The acquisition time for 64-QAM is less than 10 msec (at 5 Mbaud), and about 50 msec for 256-QAM. Carrier recovery is achieved in two steps. At first the frequency offset is reduced to about +/- 10 kHz (from +/-200 KHz) using a coarse frequency estimator. The frequency estimator is a modified form of "times-4" technique. Once the frequency offset is within +/- 10 KHz range, a second-order phase lock loop (PLL) is used to achieve the lock.

The phase detector of the PLL uses a special kind of weighting to achieve robustness. The PLL, and can track a phase noise of -70 dBc/Hz at 10 KHz for 64-QAM, and -75 dBc/Hz at 10 KHz for 256-QAM.

Figure 6 shows the scatter plots of a 64-QAM signal at various stages of equalization and carrier recovery. The signal is corrupted with MCNS multipath and 200 KHz frequency offset. Figure 6a shows the signal at the input of the blind equalizer; Figure 6b shows the signal at the output of the blind equalizer after the coarse frequency correction; Figure 6c shows the signal at the output of the PLL following the blind equalizer, and Figure 6d shows the signal at

the output of the PLL following the decision directed equalizer.

Both the equalizer and the carrier recovery are equipped with burst protection features.

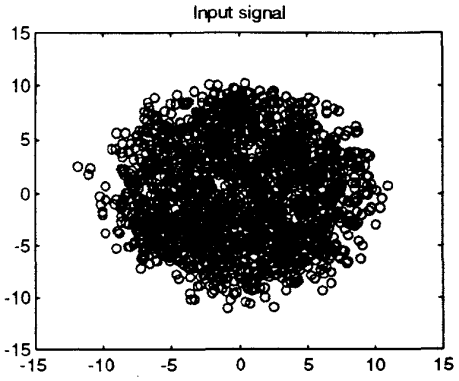


Figure 6a

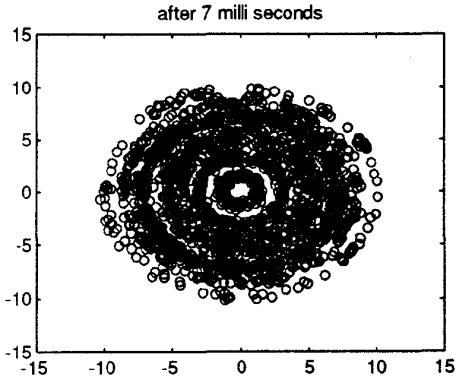


Figure 6b

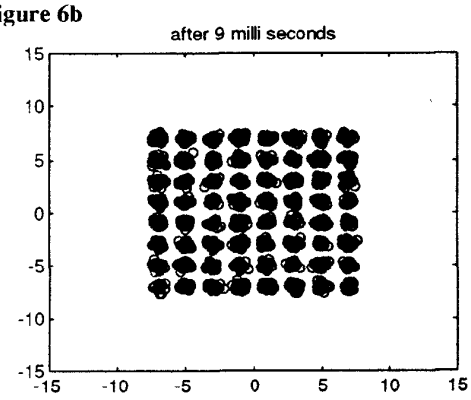


Figure 6c

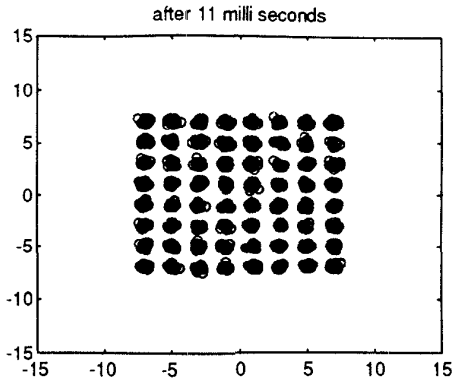


Figure 6d

6.0 Conclusion:

STEL-2176 is a highly programmable chip which meets various industry standards and specifications. As a complete subscriber solution, it has integrated modulator, demodulator and FEC on a single chip.

To test the efficiency of STEL-2176, extensive testing under very severe channel impairments were carried out, using various specifications (MCNS and DAVIC) , and various QAM sizes (16, 64 and 256).

The major emphasis, in both design and testing, was placed on 256-QAM, the most difficult of all. Under severe channel impairments (AM/FM hum, phase noise, frequency offset, gain, etc.) the system has 1.5dB implementation loss for 256-QAM (30 dB AWGN channel) , and 0.5dB for 64-QAM (23.5 dB AWGN channel) and 0.25dB for 16-QAM (17 dB AWGN channel). The system meets the BER performance specs of both Annex-A and Annex-B without any difficulty.

Exhibit 1008

Declaration of Stuart Lipoff

Customer No.: 000027683

Haynes and Boone, LLP
IP Section
2323 Victory Avenue, Suite 700
Dallas, Texas 75219
Telephone [214] 651.5000
Fax [214] 200.0853

UNITED STATES PATENT AND TRADEMARK OFFICE

UNIFIED PATENTS, LLC
Requester

v.

ENTROPIC COMMUNICATIONS, LLC
Patent Owner

Reexamination No. *to be assigned*
U.S. Patent 7,594,249

DECLARATION OF STUART LIPOFF

Table of Contents

I. Introduction....4

II. Qualifications....5

A. Materials Considered....9

III. Legal Framework....10

A. Anticipation....10

B. Obviousness....10

i. General Framework....10

ii. Analogous Art....11

iii. Combining Known Elements in the Art, Common Sense....12

iv. Teaching Away....15

v. Secondary Considerations....16

C. Claim Construction....17

IV. Opinion....18

A. Level of Skill of a Person Having Ordinary Skill in the Art....18

B. Background of the Technology....19

i. Background of the '249 Patent....19

C. Prior Art References....23

i. Overview of Afshary....23

ii. Overview of Amit....25

iii. Overview of Mills....27

D. Disclosure and Teachings of Prior Art References....28

i. Obviousness of Claim 10 by Afshary and Mills....28

ii. Obviousness of Claim 10 by Amit and Mills.....49

V. Conclusion 68

I. INTRODUCTION

1. My name is Stuart Lipoff, and I am over 21 years and otherwise competent to make this Declaration. I make this Declaration based on facts and matters within my own knowledge and on information provided to me by others, and, if called as a witness, I could and would competently testify to the matters set forth herein.

2. I have been retained as a technical expert witness in this matter by Counsel for the Requester, Unified Patents, LLC ("Requester") to provide my independent opinions on certain issues requested by Counsel for Requester relating to the accompanying Ex Parte Reexamination of U.S. Patent No. 7,594,249 ("the '249 Patent"), challenging Claim 10 (the "Challenged Claim"). My compensation in this matter is not based on the substance of my opinions or on the outcome of this matter. I have been informed that Entropic Communications, LLC ("Patent Owner") is the purported owner of the '249 Patent. I note that I have no financial interest in Requester or Patent Owner, and I have no other interest in the outcome of this matter.

3. I have reviewed, had input into, and endorse the discussions in the Requester's Request for Ex Parte Reexamination of the '249 Patent (the "Request"), including the statements in the Request regarding the '249 Patent and its prosecution history, the scope of the claim, the prior art's disclosure of the claim, and the statements throughout the Request regarding a POSITA's knowledge and

understanding.

II. QUALIFICATIONS

4. In formulating my opinions, I have relied on my knowledge, training, and experience in the relevant field, which I have summarized below.

5. I am currently president of IP Action Partners Inc., a consulting practice that serves the telecommunications, information technology, media, electronics, and e-business industries.

6. I earned a Bachelor of Science degree in Electrical Engineering in 1968 and a second Bachelor of Science degree in Engineering Physics in 1969, both from Lehigh University. I earned a Master of Science degree in Electrical Engineering from Northeastern University in 1974, and then a Master of Business Administration degree from Suffolk University in 1983.

7. I hold a Federal Communications Commission ("FCC") General Radiotelephone License. I also hold a Certificate in Data Processing from the Institute for the Certification of Computing Professionals ("ICCP"), which is supported by the Association for Computing Machinery ("ACM").

8. I am also a registered professional engineer (PE) in the Commonwealth of Massachusetts and in the State of Nevada.

9. I am a fellow of the Institute of Electrical and Electronics Engineers ("IEEE") Consumer Electronics, Communications, Computer, Circuits, and

Vehicular Technology Groups. I have been a member of the IEEE Consumer Electronics Society National Board of Governors (formerly known as the Administrative Committee) since 1981, and I was Boston Chapter Chairman of the IEEE Vehicular Technology Society from 1974 to 1976. I served as the 1996-1997 President of the IEEE Consumer Electronics Society, and from 1999 to 2018 I served as Chairman of the Society's Technical Activities and Standards Committee and as Vice President of Publications for the Society. Since 2018 I have served as Vice President of Standards and Industry Activities for the Society. I have also served as an Ibuka Award committee member for the IEEE's Award in the field of consumer electronics.

10. I have prepared and presented numerous papers at the IEEE and at other professional meetings. For example, in fall 2000, I served as general program chair for IEEE's Vehicular Technology Conference on advanced wireless communication technology. I have organized sessions at The International Conference on Consumer Electronics, and I was the 1984 program chairman. I conducted an eight-week IEEE-sponsored short course on Fiber Optics System Design. I received IEEE's Centennial Medal in 1984, and I received IEEE's Millennium Medal in 2000.

11. As Vice President and Standards Group Chairman for the Association of Computer Users ("ACU") from 1980 to 1983, I served as the ACU representative to the ANSI X3 Standards Group. From 1976 to 1978, I served as Chairman of the

task group on user rule compliance for the FCC's Citizens Advisory Committee on Citizen's Band Radio.

12. Over the last 25 years, I have been a member of the Society of Cable Television Engineers, the Association for Computing Machinery, and The Society of Motion Picture and Television Engineers. From 2001 to 2004, I served as a member of the USA advisory board to the National Science Museum of Israel. In 1998, I presented a short course on international product development strategies as a faculty member for Technion Institute of Management in Israel. From 2001 to 2003, I served as a member of the board or directors of The Massachusetts Future Problem Solving Program.

13. I am a named inventor on seven United States patents and have several publications on data communications in publications, including Electronics Design, Microwaves, EDN, the Proceedings of the Frequency Control Symposium, Optical Spectra, and IEEE publications.

14. During my professional career dating from 1969 to the present, I have been heavily engaged in the study, analysis, evaluation, design, and implementation of products and technology associated with consumer electronics and electronic appliances.

15. For 25 years, I worked for Arthur D. Little, Inc. ("ADL"), where I became Vice President and Director of Communications, Information Technology,

and Electronics ("CIE"). Prior to my time at ADL, I served as a Section Manager for Bell & Howell Communications Company for four years, and prior to that, as a Project Engineer for Motorola's Communications Division for three years.

16. At ADL, I was responsible for the firm's global CIE practice in laboratory- based contract engineering, product development, and technology-based consulting. At both Bell & Howell and Motorola, I had project design responsibility for wireless communication and paging products.

17. While employed at ADL, I served as the leader of a project that developed a series of specifications for residential cable modems known as Data over Cable Service Interface Specification, or "DOCSIS." The scope of work for this project included developing a roadmap and strategic framework for evolving the business from internet services to broadband services combining voice, data, and secure electronic content delivery. This project was performed by ADL under contract to the Multimedia Cable Network System ("MCNS") consortium and the specifications resulting from that project have since been adopted by the United Nations as a global telecommunications specification.

18. Following my time at ADL, I managed a project (through IP Action Partners) for Next Generation Network Architecture, LLC ("NGNA") that produced a five-year planning horizon for services and technology in the cable industry. The services and vision were then mapped to overall architectures impacting network

elements in the back office, head-end, outside plant, and customer premises, and documented in next generation network recommendations. The project involved coordination with senior technical staff of several multiple service operators ("MSOs") as well as interactions with over one hundred suppliers and vendors of systems, software, and products in the cable industry.

19. Additional details about my employment history, fields of expertise, and publications are included in my curriculum vitae (attached as Appendix A).

A. Materials Considered

20. As part of my work in forming my opinions in connection with this proceeding, I have reviewed the following materials, which I believe those in the field would reasonably rely upon in forming opinions regarding the subject matter of this proceeding:

Exhibit 1003	("Afshary") U.S. Patent Application Publication No. 2006/0218593 to Amir S. Afshary et al.
Exhibit 1004	("Mills") U.S. Patent 6,795,450 to Andrew Mills et al.
Exhibit 1006	("Amit") U.S. Patent No. 7,127,734 to Mati Amit

For ease of citation, when I cite to any of the non-patent/application references, I refer to the exhibit page number added at the bottom or cover page.

III. LEGAL FRAMEWORK

21. I am a technical expert and do not offer any legal opinions. However, I have been informed about certain legal principles regarding patentability and related matters under United States patent law, which I have applied in performing my analysis and arriving at my technical opinions in this matter.

A. Anticipation

22. I am informed that a person cannot obtain a patent on an invention if it is anticipated by an earlier prior art reference. It is my understanding that, to anticipate a claim under 35 U.S.C. § 102, a reference must disclose each and every element of the claim, arranged as in the claim.

B. Obviousness

i. General Framework

23. I am informed that a person cannot obtain a patent on an invention if the differences between the invention and the prior art are such that the subject matter as a whole would have been to a person having ordinary skill in the art obvious at the time of the invention. I am informed that a conclusion of obviousness may be founded upon more than a single item of prior art. I am also informed that obviousness is determined by evaluating the following factors: (1) the scope and content of the prior art, (2) the differences between the prior art and the claim at issue, (3) the level of ordinary skill in the pertinent art, and (4) secondary

considerations of non-obviousness. In addition, the obviousness inquiry should not be done in hindsight. Instead, the obviousness inquiry should be done through the eyes of a person having ordinary skill in the art at the time of the alleged invention.

24. In considering whether certain prior art renders a particular patent claim obvious, I am informed that one must consider the scope and content of the prior art, examples of which include disclosures in patents, trade publications, journal articles, conference papers, industry standards, product literature and documentation, texts describing competitive technologies, requests for comment published by standard setting organizations, and materials from industry conferences.

25. I am informed that for a patent claim to be found obvious, the proper perspective to consider is that of a person having ordinary skill in the art (often referred to as a "PHOSITA," "POSITA," or "POSA") at the time of the alleged invention. I am informed that the factors to consider in determining the level of ordinary skill in the art include (1) the educational level and experience of people working in the field at the time the invention was made, (2) the types of problems faced in the art and the solutions found to those problems, and (3) the sophistication of the technology in the field.

ii. Analogous Art

26. I am informed that for a prior art reference to be proper for use in an obviousness analysis, the reference must be "analogous art" to the claimed

invention. I am informed that a reference is analogous art to the claimed invention if: (1) the reference is from the same field of endeavor as the claimed invention (even if it addresses a different problem); or (2) the reference is reasonably pertinent to the problem faced by the inventor (even if it is not in the same field of endeavor as the claimed invention). In order for a reference to be "reasonably pertinent" to the problem, it must logically have commended itself to an inventor's attention in considering his problem. In determining whether a reference is reasonably pertinent, one should consider the problem faced by the inventor, as reflected either explicitly or implicitly, in the specification. I believe that all of the references I considered in forming my opinions in this reexamination are well within the range of references a person having ordinary skill in the art would have consulted by the time of the invention to address the type of problems described in the Challenged Claims.

iii. Combining Known Elements in the Art, Common Sense

27. I am informed that, in order to establish that a claimed invention was obvious based on a combination of prior art elements, a clear articulation of the reason(s) why a claimed invention would have been obvious must be provided. Specifically, I am informed that, under the U.S. Supreme Court's KSR decision, a combination of multiple items of prior art renders a patent claim obvious when there was an apparent reason for a person having ordinary skill at the time of the invention to combine or modify the prior art. I am informed that such reason may include, but

is not limited to, one or more of the following rationales: (A) combining prior art methods according to known methods to yield predictable results; (B) substituting one known element for another to obtain predictable results; (C) using a known technique to improve a similar device in the same way; (D) applying a known technique to a known device ready for improvement to yield predictable results; (E) trying a finite number of identified, predictable potential solutions, with a reasonable expectation of success; (F) identifying that known work in one field of endeavor may prompt variations of it for use in either the same field or a different one based on design incentives or other market forces if the variations are predictable to one of ordinary skill in the art; or (G) identifying an explicit teaching, suggestion, or motivation in the prior art that would have led one of ordinary skill to modify the prior art reference or to combine the prior art references to arrive at the claimed invention.

28. I am informed that the test for obviousness is *not* whether the features of a secondary reference may be *bodily incorporated* into the structure of the primary reference, but rather whether one of skill would have been motivated to combine the teachings of the prior art references to achieve the claimed invention. Nevertheless, I am informed that an invention that is a combination of prior art must do more than yield predictable results to be non-obvious and that, even where one or more motivations to combine exist, claims are not necessarily obvious unless a person

having ordinary skill in the art would have had a reasonable expectation of success in implementing or applying the proposed combination at the time of the invention.

29. I also am informed that in conducting an obviousness analysis, a precise teaching directed to the specific subject matter of the challenged claim need not be sought out because it is appropriate to take account of the inferences and creative steps that a person having ordinary skill in the art at the time of the invention would employ. In other words, the prior art need not be directed towards solving the same specific problem as the problem addressed by the patent. Further, the individual prior art references themselves need not all be directed towards solving the same problem. The prior art considered can be directed to any need or problem known in the field of endeavor at the time of invention and can provide a reason for combining the elements of the prior art in the manner claimed. Common sense teaches that familiar items may have obvious uses beyond their primary purposes, and a person having ordinary skill in the art will often have been able to fit the teachings of multiple prior art references like pieces of a puzzle. I am informed that, under the *KSR* standard, common sense is important and should be considered.

30. I also am informed that the fact that a particular combination of prior art elements was "obvious to try" may indicate that the combination was obvious even if no one attempted the combination. If the combination was obvious to try (regardless of whether it was actually tried) or leads to anticipated success, then it is

likely the result of ordinary skill and common sense rather than innovation. I am further informed that in many fields it may be that there is little discussion of obvious techniques or combinations, and it often may be the case that market demand, rather than scientific literature or knowledge, will drive the design of an innovation. When there is a design need or market pressure to solve a problem and there are a finite number of identified, predictable solutions, a person having ordinary skill in the art has good reason to pursue the known options within his or her technical grasp. If this leads to the anticipated success, it is likely the product not of innovation, but of ordinary skill and common sense.

iv. Teaching Away

31. I am informed that it is improper to combine references where the references teach away from their combination. I am informed that a reference may be said to teach away when a person of skill, upon reading the reference, would be discouraged from following the path set out in the reference, or would be led in a direction divergent from the path that was taken by the patent applicant. In general, a reference will teach away if it suggests that the line of development flowing from the reference's disclosure is unlikely to be productive of the result sought by the patentee. I am informed that a reference teaches away, for example, if (1) the combination would produce a seemingly inoperative device, or (2) the references leave the impression that the product would not have the property sought by the

patentee. However, I am informed that a reference does not teach away if it merely expresses a general preference for an alternative invention but does not criticize, discredit, or otherwise discourage investigation into the invention claimed. Further, a person of skill will often appreciate that different courses of action often have simultaneous advantages and disadvantages, and I am informed the existence of such does not necessarily obviate a motivation to combine.

v. Secondary Considerations

32. I am informed that even if a *prima facie* case of obviousness is established, the final determination of obviousness must also consider "secondary considerations" if presented. I am informed that in most instances, the patentee raises these secondary considerations of non-obviousness. In that context, the patentee argues an invention would not have been obvious in view of these considerations, which include: (a) commercial success of a product due to the merits of the claimed invention; (b) a long-felt, but unsatisfied need for the invention; (c) failure of others to find the solution provided by the claimed invention; (d) deliberate copying of the invention by others; (e) unexpected results achieved by the invention; (f) praise of the invention by others skilled in the art; (g) lack of independent simultaneous invention within a comparatively short space of time; (h) teaching away from the invention in the prior art.

33. I am further informed that secondary-considerations evidence is only

relevant if the offering party establishes a connection, or nexus, between the evidence and the claimed invention. The nexus cannot be based on prior art features. For example, if commercial success of products allegedly embodying the claims is presented as a secondary indicium of non-obviousness, the patent owner must show that such success is due to features of the claimed invention, and not features unrelated to the claimed invention or that already existed in the prior art. The establishment of a nexus is a question of fact. While I understand that the Patent Owner here has not offered any secondary considerations at this time, I will supplement my opinions in the event that Patent Owner raises secondary considerations during the course of this proceeding.

C. Claim Construction

34. I am informed that in performing an obviousness analysis, it is necessary to understand the scope of the claims. I am also informed the first step in an unpatentability analysis, therefore, involves construing the claims. Second, the construed claim language is then compared to the disclosures of the prior art.

35. I am informed that claims in a reexamination are given their broadest reasonable interpretation consistent with the patent specification. I am informed that, for the purposes of claim construction, expert testimony may be helpful to provide background on the technology at issue, to explain how an invention works, to ensure an understanding of the technical aspects of the patent is consistent with that of a

POSITA, or to establish that a particular term in the patent had a particular meaning in the pertinent field at the time of the invention. However, I am also informed that it is not the role of technical experts to supplant the examiner or the USPTO in applying principles of claim interpretation.

36. For purposes of this proceeding, Counsel has instructed me to understand the claim terms of the Challenged Claim in a way that is generally consistent with the terms' broadest reasonable interpretation consistent with the specification of the '249 Patent. My analysis below is consistent with these principles.

IV. OPINION

A. Level of Skill of a Person Having Ordinary Skill in the Art

37. I was asked to provide my opinion as to the level of skill of a person having ordinary skill in the field of the '249 Patent at the time of the claimed invention (referred to herein as a "POSITA"). I have been instructed to assume that the time of the claimed invention of the '249 Patent is May 4, 2001. In determining the characteristics of a POSITA, I was told to consider several factors, including the type of problems encountered in the art, the solutions to those problems, the rapidity with which innovations are made in the field, the sophistication of the technology, and the education level of active workers in the field. I also placed myself back in the time frame of the claimed invention and considered the colleagues with whom I

had worked at that time.

38. In my opinion, a POSITA would be a person having, as of May 4, 2001: (1) an undergraduate degree in electrical engineering, or a closely related field, or similar advanced post-undergraduate education; and (2) two to three years of work experience in the field of radio frequency systems (e.g., cable television systems), with more education substituting for less experience and vice versa. Such a person of ordinary skill in the art would have been capable of understanding the '249 Patent and the prior art references discussed herein.

39. Based on my education, training, and professional experience in the field of the claimed invention, I am familiar with the level and abilities of a POSITA. Additionally, I met at least these minimum qualifications at least as of May 4, 2001. Further, although my qualifications may exceed those of the hypothetical person defined above, my analysis and opinions regarding the '249 Patent have been rendered from the perspective of a POSITA during the relevant time frame.

B. Background of the Technology

i. Background of the '249 Patent

40. The '249 Patent is titled "Network Interface Device and Broadband Local Area Network Using Coaxial Cable" and it is directed to a "local area network" which "uses coaxial cable wiring for interconnection of terminal devices." '249 Patent (EX1001), Abstract. The '249 Patent uses a "frequency selective

network interface device … placed at the building point of entry … to reflect network signals transmitted by terminal devices back into the building distribution to be received by other terminal devices." *Id.* In this way, "the network interface provides a path for terminal devices to transmit and receive from other terminal devices." *Id.*

41. To provide a background of the '249 Patent, independent claim 10 is reproduced below.

> 10. A broadband local area network for transmitting modulated signals using coaxial cable building wiring containing a plurality of branches comprising:
> a filter located at the point of entry of the building wiring that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring;
> at least one signal splitter;
> a plurality of terminal devices connected to the wiring branches, each terminal device capable of communicating with other terminal devices the reflected signal path created by the filter, wherein the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals.

42. In general, claim 10 is related to creating a local area network using coaxial wiring. The '249 Patent notes that when "the coaxial cable used for the LAN

is shared with a community aerial television (CATV) or cable TV service the signals must be separated to avoid interference." '249 Patent (EX1001), 1:22–24. The '249 Patent explains that in "a conventional cable TV or cable modem use, this isolation is of no concern because terminal devices do not communicate with each other." *Id.*, 2:15–18. However, in "a LAN system, terminal devices communicate directly with each other." *Id.*, 2:18–21. Thus, the '249 Patent purports to provide "a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." *Id.*, 3:4–7.

43. More specifically the '249 Patent contemplates "a frequency selective network interface device placed at the building point of entry (POE) to reflect upstream signals transmitted by terminal devices back into the building distribution whereby the signals may be received by other terminal devices. By reflecting upstream signals back into the building as downstream signals, the network interface device provides a path for terminal devices to transmit to and receive from other terminal devices." '249 Patent (EX1001), 3:11–18. According to the '249 Patent, this "overcomes the problem of port-to-port isolation in the signal splitter/combiners." *Id.*, 3:18–20. Additionally, the '249 Patent states that "the network interface device is to isolate signals generated within the building and prevent the transmission outside the building. Due to the frequency selectivity of the network interface, upstream and downstream signals for cable TV and cable modem

service are not disturbed." *Id.*, 3:25–27.

44. Figure 2 of the '249 Patent shows "a signal distribution plan according to the present invention." '249 Patent (EX1001), 3:58–59.

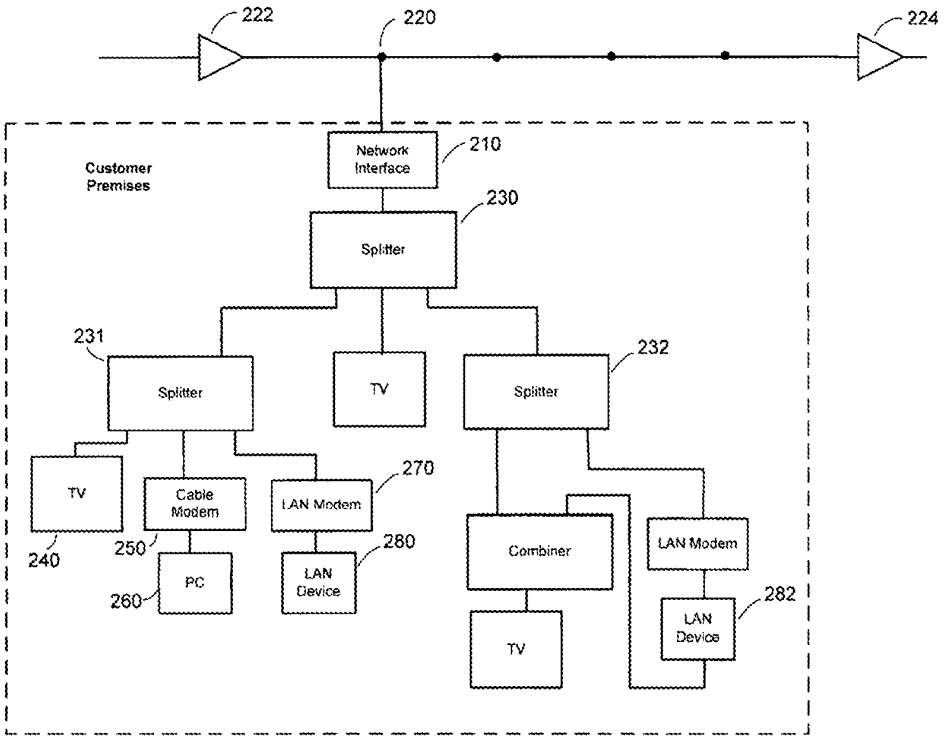


FIG. 2

'249 Patent (EX1001), Fig. 2

45. In describing Figure 2, the '249 Patent states that a "frequency selective network interface device 210 is located at the point of entry (POE) to the building LAN wiring…. The network interface 210 produces a reflection of upstream signals back into the LAN wiring so that terminal devices, such as LAN modem 270, can receive a signal transmitted by another terminal device connected to the LAN wiring forming the network. The invention intentionally introduces a reflection into the

LAN wiring and exploits the reflected signal to provide communication path in a system that has high isolation between terminal devices due to splitters 230, 231, and 232 installed in the wiring." '249 Patent (EX1001), 3:59–4:13.

46. However, the use of in-building coaxial cable wiring to create a local area network was well-known prior to the '249 Patent. For example, prior to the '249 Patent's priority date, Afshary disclosed "a coaxial cable local area network (LAN) for digitally communicating client generated data between clients of the cable LAN." Afshary (EX1003), Abstract. Afshary's system uses a "low pass filter (LPF) 18" which prevents signals from the LAN "from getting back to the public cable network" by "reflect[ing] cable LAN transmitted signals back into the network of the cable LAN." *Id.*, ¶¶ 14, 16. Similarly, Amit disclosed a technique in which "signals will typically propagate between the devices via reflections from other devices in the line." Amit (EX1006), 3:19–23.

47. Thus, the challenged claim recites nothing more than concepts and elements that were well-known prior to the '249 Patent.

C. Prior Art References

i. Overview of Afshary

48. Afshary describes "a coaxial cable local area network (LAN) for digitally communicating client generated data between clients of the cable LAN." Afshary (EX1003), Abstract. Afshary's system uses a "cable LAN isolator such as

LPF [low pass filter] 18" which "maintains security for the cable LAN" and does so by "restricting spurious signals or cable LAN signals to the premise of the user" and which will also "reflect cable LAN transmitted signals back into the network of the cable LAN." Afshary (EX1003), ¶¶ 15–16. With reference to Figure 2, reproduced below, Afshary explains that "[i]n the overall operation, a first client, such as PC 62, communicates digital data to a first cable LAN adapter 32 through client interface 66…the first cable LAN adapter 32 communicates the processed data to a second cable LAN adapter 32 through coaxial cable wire 24." Afshary (EX1003), ¶ 23.

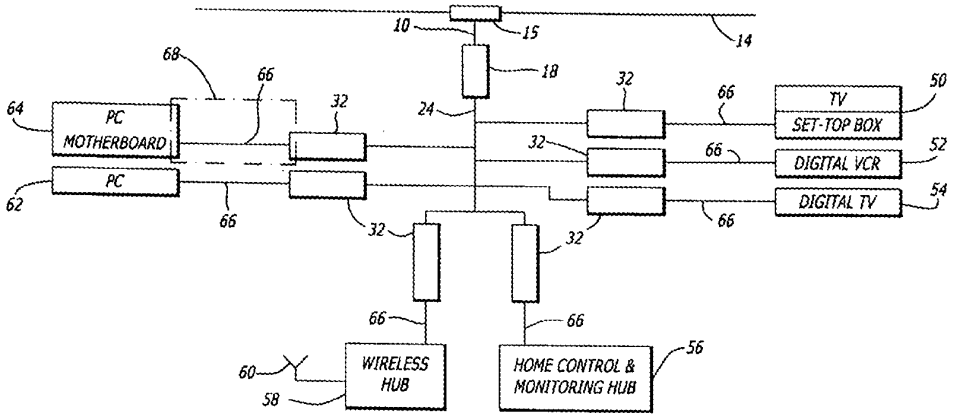


FIG. 2

Afshary (EX1003), Fig. 2

49. In my opinion, Afshary is analogous art to the '249 Patent. The field of endeavor of the '249 Patent is "broadband communication networks" and "network interface devices and network wiring." '249 Patent (EX1001), 1:14–16. Afshary "relates to a coaxial cable local area network (LAN) for digitally

communicating client generated data between clients of the cable LAN." Afshary (EX1003), ¶ 7.

50. Afshary is also reasonably pertinent to at least one problem addressed by the '249 Patent. The '249 Patent purports to address at least the problem of "providing a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." '249 Patent (EX1001), 3:4–7. Afshary discloses "digitally communicating client generated data between clients of the cable LAN" and is thus reasonably pertinent to the problem of "providing a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." Afshary (EX1003), ¶ 7. Accordingly, Afshary is analogous art to the '249 Patent for this reason as well.

ii. Overview of Amit

51. Amit discloses "the ability to use existing cable TV wires for home networking." Amit (EX1006), Abstract. Amit explains that it "provides a system and methods for communication between subscribers devices over cable infrastructure designed to carry video signals, using pass band frequency bands, without transmission through a CATV headend device. Amit (EX1006), 2:34–38. Amit shows in Figure 2 "an example of a preferred embodiment" of its system, which includes a "[n]otch filter … that does not pass a certain RF range that is used by the home networking devices" and Amit further describes that "signals arriving

to RF splitter [203] from the home units [204–207, 212] are partially reflected back to these home units [204–207]." *Id.* at 6:24–44.

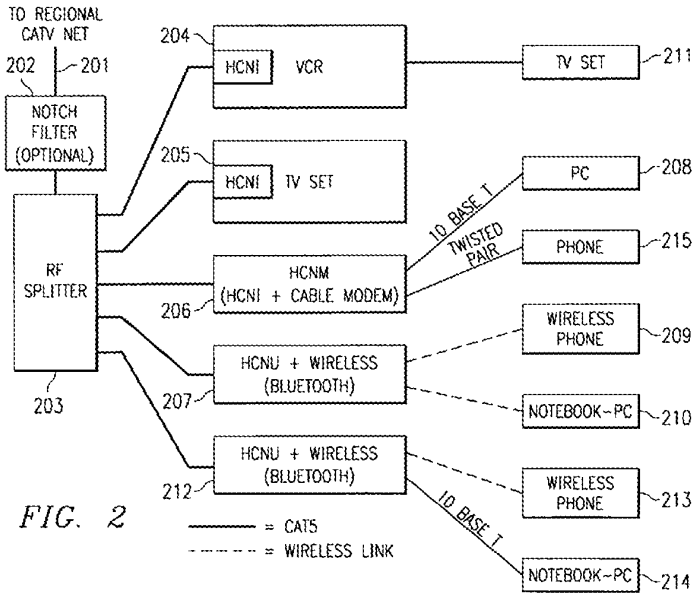


FIG. 2

Amit (EX1006), Fig. 2

52. In my opinion, Amit is analogous art to the '249 Patent. As detailed above, the field of endeavor of the '249 Patent is "broadband communication networks" and "network interface devices and network wiring." '249 Patent (EX1001), 1:14–16. Amit similarly describes using "cable TV wires for home networking." Amit (EX1006), Abstract. Thus, Amit is within the same field of endeavor. Amit is also reasonably pertinent to at least one problem addressed by the '249 Patent. The '249 Patent purports to address at least the problem of "providing a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." '249 Patent (EX1001), 3:4–7. Amit discloses "methods for

communication between subscribers' devices over cable infrastructure designed to carry video signals." Amit (EX1006), 2:34–38. Thus, Amit is reasonably pertinent to at least one of the problems allegedly solved by the '249 Patent.

iii. Overview of Mills

53. Mills relates to "computer network point to point data communications" in various implementations, including "Ethernet using coaxial." Mills (EX1004), 1:10–13. As pertinent to the analysis in this reexamination request, Mills teaches that "receivers use an equalizer to adjust for the characteristics of the incoming line." *Id.*, 6:22–34.

54. In my opinion, Mills is analogous art to the '249 Patent. As detailed above, the field of endeavor of the '249 Patent is "broadband communication networks" and "network interface devices and network wiring." '249 Patent (EX1001), 1:14–16. Mills describes techniques for "computer network point to point data communications" in various implementations, including "Ethernet using coaxial." Mills (EX1004), 1:10–13. Thus, Mills is within the same field of endeavor.

55. Mills is also reasonably pertinent to at least one problem addressed by the '249 Patent. The '249 Patent purports to address the problem of "providing a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." '249 Patent (EX1001), 3:4–7. By describing techniques for point-to-

point data communications using coaxial wiring, Mills is reasonably pertinent to at least one of the problems allegedly solved by the '249 Patent.

D. Disclosure and Teachings of Prior Art References

i. Obviousness of Claim 10 by Afshary and Mills

56. In my opinion, each and every limitation of claim 10 is rendered obvious by the combined teachings of Afshary and Mills.

Claim 10

[10.0] A broadband local area network for transmitting modulated signals using coaxial cable building wiring containing a plurality of branches comprising:

57. To the extent the preamble is a limitation of the claims, Afshary discloses it or at least renders it obvious.

58. First, Afshary discloses a *local area network ... using coaxial cable building wiring*:

> "The invention relates to a **coaxial cable local area network (LAN)** for digitally communicating client generated data between clients of the cable LAN."

Afshary, Abstract.

59. Afshary also teaches that the local area network is a *broadband* local area network because its clients use a "broadband application specific integrated circuit (ASIC) 78. Afshary (EX1003), ¶ 30.

60. Additionally, Afshary teaches *transmitting modulated signals*:

> "In the preferred embodiment, a signal generated by adapter 32 downstream of LPF 18 rapidly **transmits** data from one adapter to another adapter as a carrier **modulated digital signal**."

Afshary (EX1003), ¶ 26.

61. Afshary further teaches *building wiring containing a plurality of branches*. As shown in Figure 1, the cable LAN in Afshary contains a plurality of branches 24 (annotated in dashed boxes).

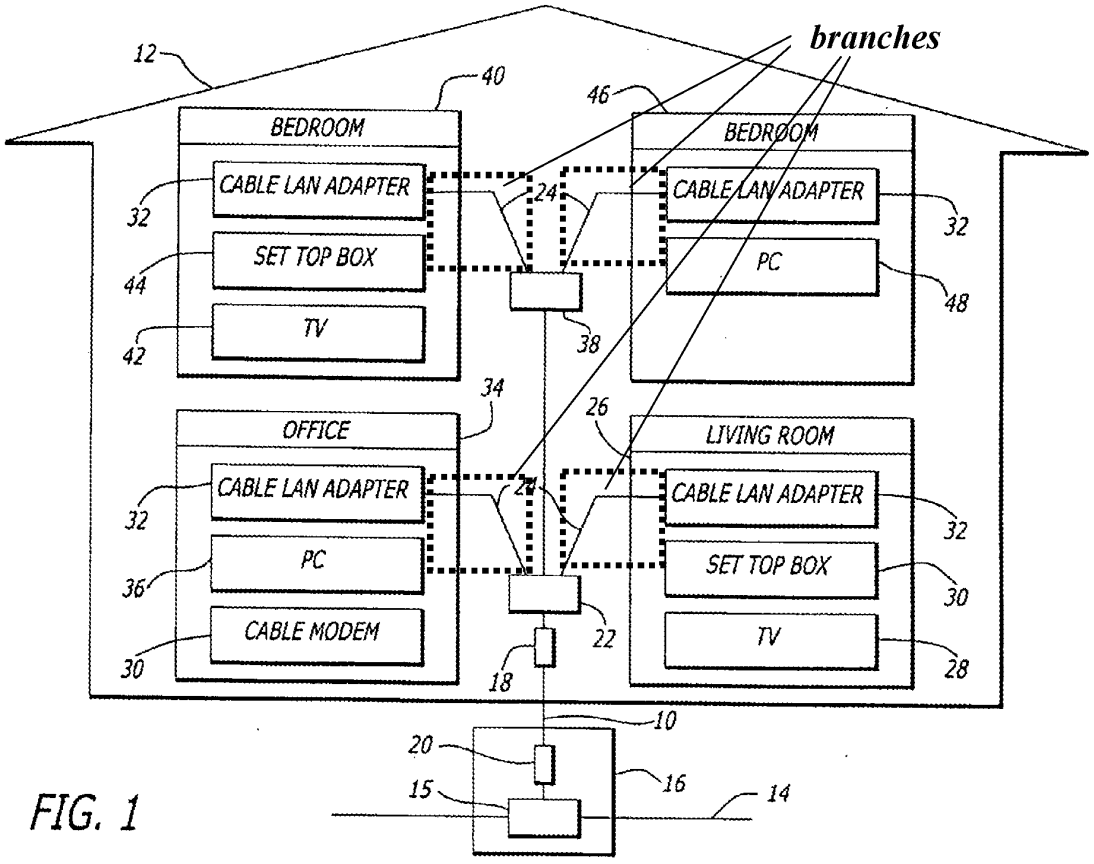


FIG. 1

Afshary (EX1003), Fig. 1 (annotated)

62. Likewise, Figure 2 of Afshary shows multiple branches 24 (annotated in dashed boxes):

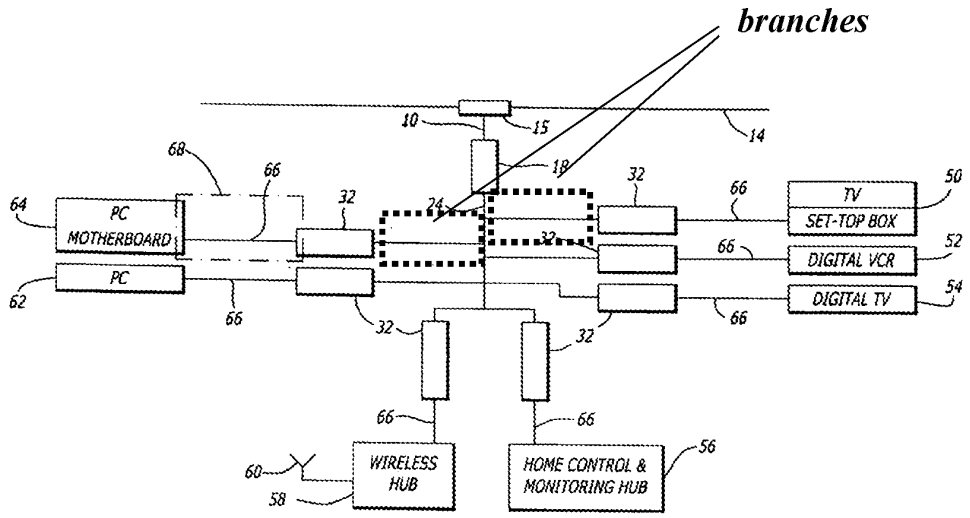


FIG. 2

Afshary (EX1003), Fig. 2 (annotated)

63. Accordingly, Afshary discloses, or at least renders obvious, the preamble of claim 10.

[10.1] a filter located at the point of entry of the building wiring that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring;

64. Afshary discloses, or at least renders obvious this limitation.

65. First, Afshary discloses *a filter located at the point of entry of the building wiring*. Afshary teaches a low pass filter (LPF) 18, which is *a filter* as recited because the '249 Patent discloses that the filter "would typically be a low pass filter." '249 Patent (EX1001), 4:25–26. Accordingly, Afshary's LPF 18 is the

same type of *filter* contemplated for use by the '249 Patent.

66. Afshary teaches that the filter is *located at the point of entry of the building wiring*:

> "**Near the point at which drop cable 10 enters home 12, low pass filter (LPF) 18 is installed by the user**, upstream of the in-home cable LAN network and downstream of any cable service company supplied low pass filter 20."

Afshary (EX1003), ¶ 14.

67. As shown in Figure 1, **LPF 18** is *located at the point of entry of the building wiring*:

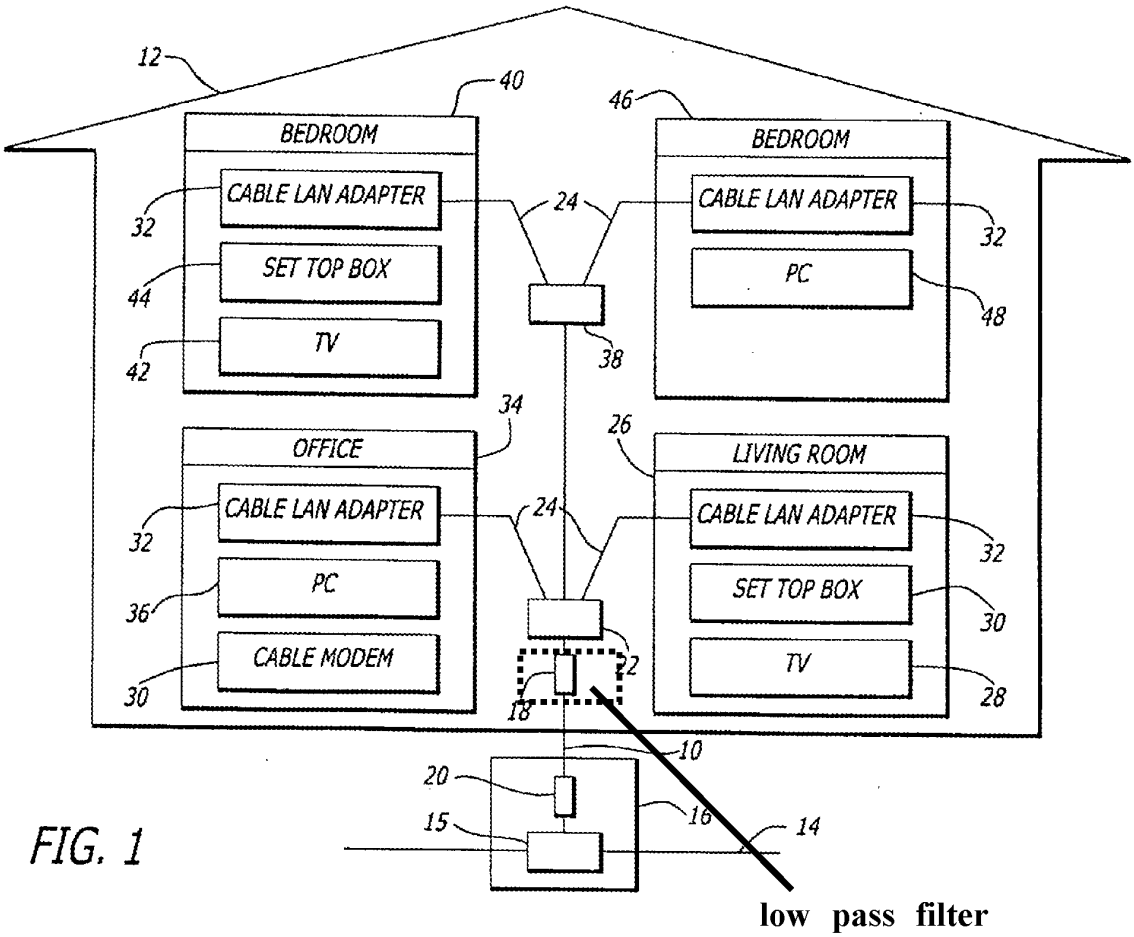


FIG. 1

Afshary (EX1003), Fig. 1 (annotated)

68. Second, Afshary discloses that the filter *rejects network signals originating in the building such that the rejected network signals do not pass through the filter*. Afshary explains:

> "By **restricting** spurious signals or **cable LAN signals to the premise of the user**, LPF 18 maintains security by **preventing such signals from getting back to the public cable network**."

Afshary (EX1003), ¶ 16.

> "LPF 18 maintains security for the cable LAN, works to improve the performance of the cable LAN, and **prevents signals generated within the cable LAN from interfering with cable service company operations**."

Afshary (EX1003), ¶ 15.

69. Because Afshary's low pass filter **restricts** cable LAN signals to the premise of the user and **prevents** cable LAN signals from getting back to the public cable network and interfering with cable service company operations, Afshary's low pass filter *rejects network signals originating in the building such that the rejected network signals do not pass through the filter*.

70. Afshary also explains that the cable LAN signals *are reflected by the filter back into all branches of the building wiring*:

> "LPF 18 will also reflect cable LAN transmitted signals back into the network of the cable LAN."

Afshary (EX1003), ¶ 16.

71. Afshary describes the cable LAN as the wiring branches within the home shown in Figure 1:

> "Near the point at which drop cable 10 enters home 12, low pass filter (LPF) 18 is installed by the user, upstream of the in-home cable LAN network and downstream of any cable service company supplied low pass filter 20."

Afshary (EX1003), ¶ 14.

72. Afshary also discloses that splitters, such as splitter 22 depicted in Figure 1, "permit more than one client to receive identical data by dividing the cable into two or more cable wires." In more detail, Afshary explains:

> "Coaxial cable splitters permit more than one client to receive identical data by dividing the cable into two or more cable wires. Thus, from the point at which drop cable 10 enters home 12, drop cable 10 is split by splitter 22 into different cable wires 24, each cable wire 24 being routed to different rooms in home 12."

Afshary (EX1003), ¶ 18.

73. Thus, because Afshary's low pass filter restricts cable LAN signals from interfering with cable service signals and reflects cable LAN signals back into the network of the cable LAN, and because data reflected by LPF 18 is split by splitter 22 and communicated to all clients coupled to the splitter, Afshary discloses, or at least renders obvious, that the signals *do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring* as recited.

74. Accordingly, Afshary's low pass filter 18 discloses, or at least renders obvious, *a filter located at the point of entry of the building wiring that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring* as recited.

[10.2] at least one signal splitter;

75. Afshary discloses *at least one signal splitter*:

> "Thus, where **splitter 22** is located close to LPF 18, the return loss characteristics of LPF 18 may be helpful in coupling the cable LAN signal power from one arm of splitter 22 to another arm of splitter 22."

Afshary (EX1003), ¶ 16. Afshary's splitter 22 is annotated by a dashed box below:

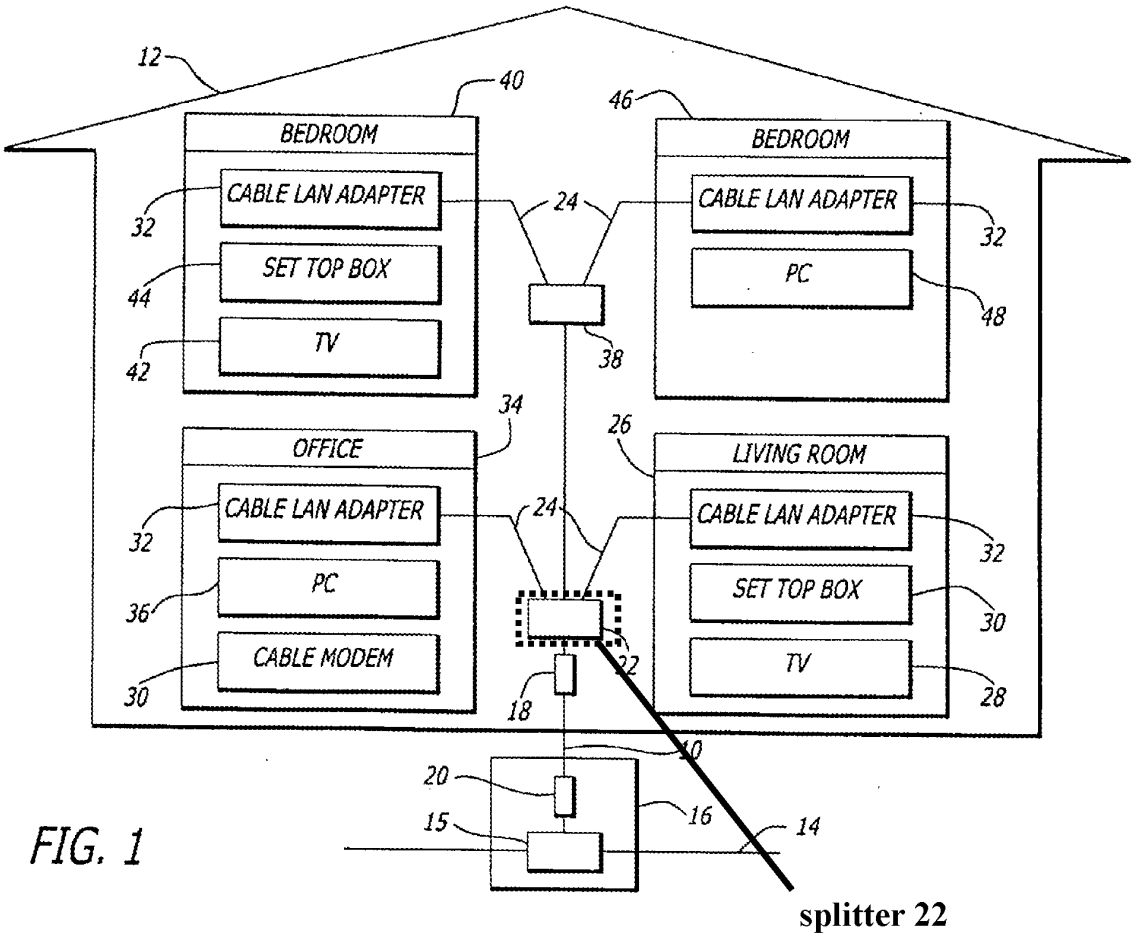


FIG. 1

Afshary (EX1003), Fig. 1 (annotated)

"**Coaxial cable splitters** permit more than one client to receive identical data by dividing the cable into two or more cable wires. Thus, from the point at which drop cable 10 enters home 12, drop cable 10 is split by splitter 22 into different cable wires 24, each cable wire 24 being routed to different rooms in home 12."

Afshary (EX1003), ¶ 18.

76. Thus, Afshary's splitter 22 discloses, or at least renders obvious, *at*

least one signal splitter as recited.

[10.3.1] a plurality of terminal devices connected to the wiring branches, each terminal device capable of communicating with other terminal devices the reflected signal path created by the filter,

77. Afshary discloses, or at least renders obvious, this limitation.

78. As shown in Figure 1, Afshary discloses *a plurality of terminal devices* such as multiple "cable LAN adapter 32" devices:

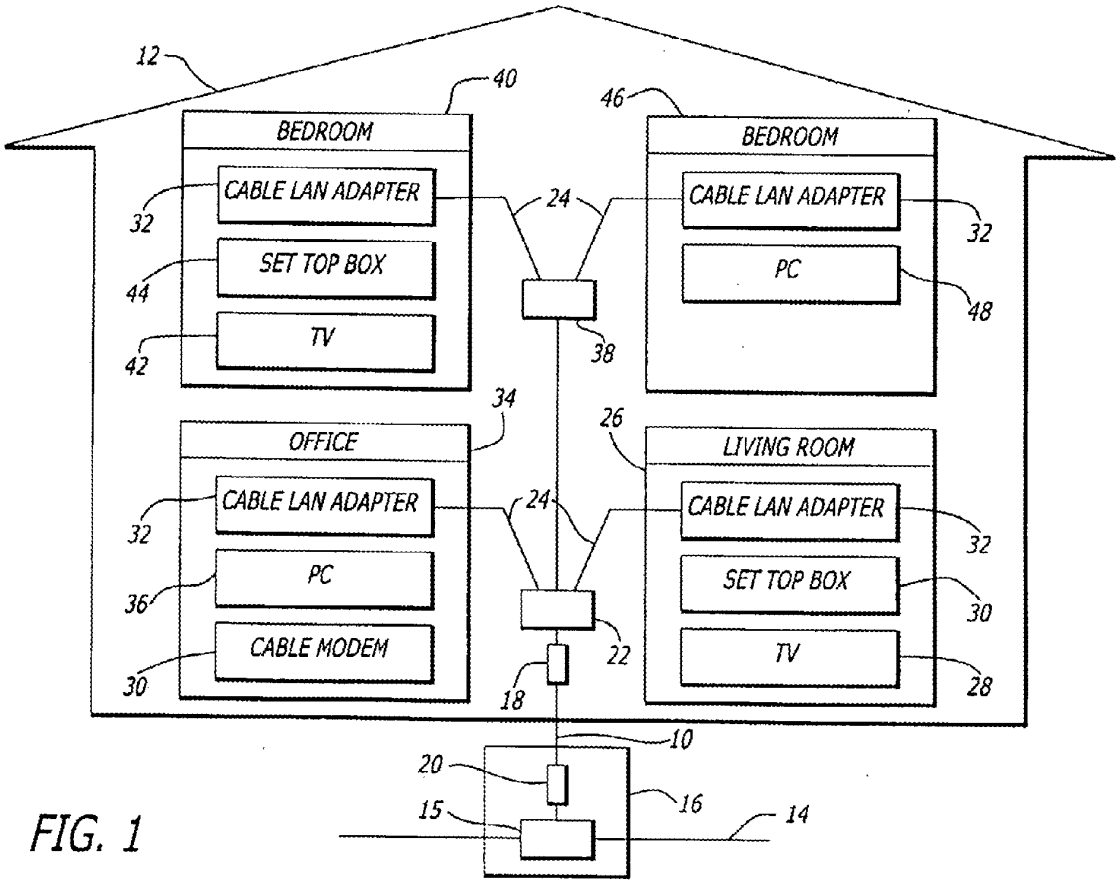


FIG. 1

Afshary (EX1003), Fig. 1

79. Afshary also explains:

> "Within living room 26 of FIG. 1 is living room television (TV) 28 having set top box (STB) 30. Set top box 30 includes boxes that provide interactive television through high speed internet data access. Coupled between cable wire 24 and set top box 30 is **cable LAN adapter 32**. Cable wire 24 is also routed to office 34. Within office 34 is office personal computer (PC) 36 having an internet gateway. The internet gateway may be personal computer 36 having high speed access to the internet, where the high speed access may be achieved through the shown a cable modem 30, as well as other connection such as asymmetric digital subscriber loop (ADSL) modem, an integrated service digital network (ISDN), a T1 line, and a multimedia cable network system (MCNS) cable modem. Coupled between cable wire 24 and personal computer 36 is **a second cable LAN adapter 32**."

Afshary (EX1003), ¶ 18.

> "Cable wire 24 is also routed to bedroom 40 and to bedroom 46. To communicate with **cable LAN adapter 32 in bedroom 40** and bedroom 46, cable wire 24 is further divided from splitter 22 by splitter 38 into two cable wires 24. Within bedroom 40 is bedroom TV 42 having set top box 44. Coupled between cable wire 24 and set top box 44 is a **third cable LAN adapter 32**. Within bedroom 46 is bedroom PC 48 coupled to **a fourth cable LAN adapter 32**. To complete the cable LAN network, cable wire 24 from splitter 38 is connected to cable LAN adapter 32 in bedroom 46. The number and arrangement of rooms and clients in home 12 is not particular to an embodiment of the invention. Home 12 may have different rooms, in different numbers and arrangements, each having different clients."

Afshary (EX1003), ¶ 19.

80. Afshary also explains, with reference to Figure 2, "[t]ypical clients of the cable LAN network." For example, Afshary explains:

> "Typical clients of the cable LAN network are shown in FIG. 2. These clients may include digital TV set top box 50, digital video cassette recorder (VCR) 52, digital TV 54, home control and monitoring hub 56, wireless hub 58 with bridge 60, personal computer 62, and personal computer motherboard 64. Bridge 60 of wireless hub 58 is capable of communicating with different wireless devices. For example, one such wireless device may be a remote-control device that can be used for multiple clients on the network such as PC's, set top boxes, and digital TV's.
>
> As shown in FIG. 2, client interface 66 couples cable LAN adapter 32 to a client. Adapter 32 serves to connect these clients to the network of cable wires 24. Client interface 66 may be any suitable computer interface, such as a Peripheral Component Interconnect (PCI) adapter card, Universal Serial Bus (USB), or buses meeting the Institute of Electronic and Electrical Engineering standard for a high performance serial bus, IEEE 1394. Adapter 32 may also be coupled to a client by other techniques. For example, adapter 32 may be housed in a client of the cable-LAN network such as indicated by dashed lines 68 for PC motherboard 64."

Afshary (EX1003), ¶¶ 20–21.

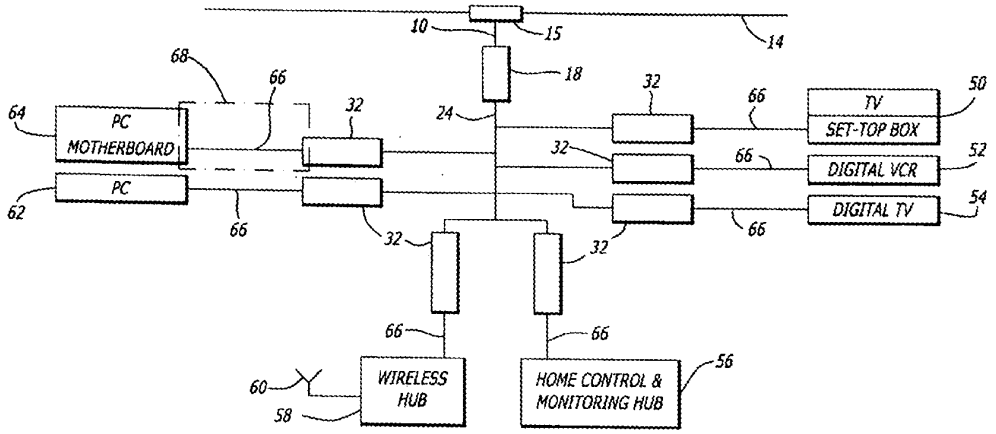


FIG. 2

Afshary (EX1003), Fig. 2

81. As also shown in Figures 1 and 2, the *terminal devices* are *connected to the wiring branches*, such as the "coaxial cable wire 24."

82. Afshary also discloses that *each terminal device* [is] *capable of communicating with other terminal devices the reflected signal path created by the filter*:

> "The overall operation can be understood from FIG. 2. In the overall operation, a **first client, such as PC 62, communicates digital data to a first cable LAN adapter 32** through client interface 66. After processing the data for transmission, **the first cable LAN adapter 32 communicates the processed data to a second cable LAN adapter 32 through coaxial cable wire 24**. On receiving the data, the second adapter 32 further processes the transmitted data to a form usable by a second client, such as digital TV 54, and transmits that data to second client digital TV 54 through client interface 66. First cable LAN adapter

> 32 may also communicate this same data to other adapters 32, that, in turn, may transmit the received data to their associated client."

Afshary (EX1003), ¶ 23.

> "LPF 18 will also reflect cable LAN transmitted signals back into the network of the cable LAN."

Afshary (EX1003), ¶ 16.

> "In the preferred embodiment, a signal generated by adapter 32 downstream of LPF 18 rapidly transmits data from one adapter to another adapter as a carrier modulated digital signal."

Afshary (EX1003), ¶ 26.

> "With **the signal transmitted from a first adapter 32, at least a designated second adapter 32 will receive the signal**. On receiving the transmitted data through cable wire 24, second adapter 32 reverses the process by converting the transmitted data into a form usable by a second client and transmitting that data to that client. From switch 132 of FIG. 4, LNA 118 focuses the signal so that down converter 114 may convert the signal to an intermediate frequency (IF) of around 44 MHz The analog signal is then converted to a digital signal in ADC 110."

Afshary (EX1003), ¶ 41.

> "As shown in FIG. 2, client interface 66 couples cable LAN adapter 32 to a client. Adapter 32 serves to connect these clients to the network of cable wires 24. Client interface 66 may be any suitable computer interface, such as a Peripheral Component Interconnect (PCI) adapter card, Universal Serial Bus (USB), or buses meeting the Institute of

> Electronic and Electrical Engineering standard for a high performance serial bus, IEEE 1394. Adapter 32 may also be coupled to a client by other techniques. For example, adapter 32 may be housed in a client of the cable-LAN network such as indicated by dashed lines 68 for PC motherboard 64."

Afshary (EX1003), ¶ 21.

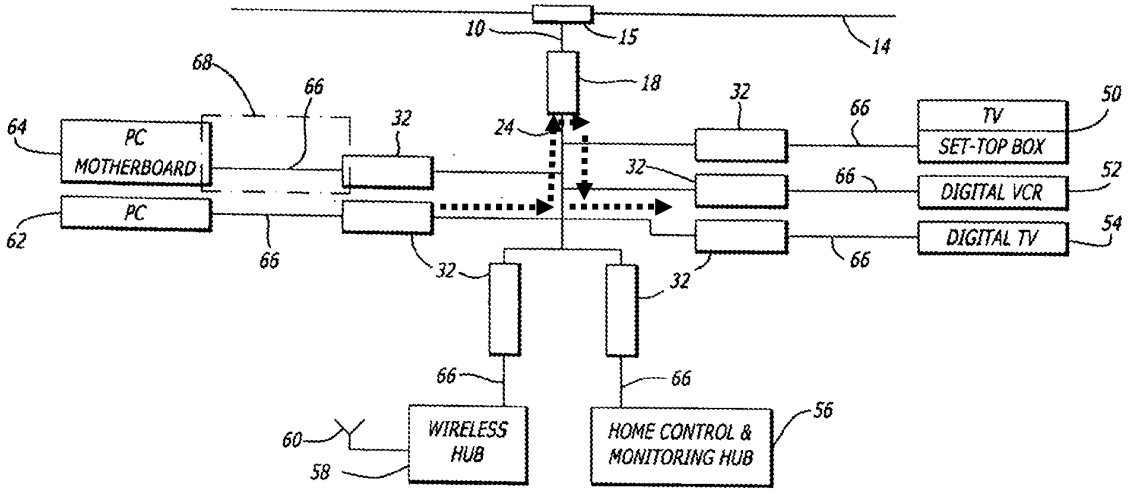


FIG. 2

Afshary (EX1003), Fig. 2 (annotated)

83. As shown in the dashed arrows annotating Figure 2, above, cable LAN adapter 32 is used by PC 62 to communicate over wiring 24. The signal from cable LAN adapter 32 is transmitted to the LPF 18, which in turn reflects the signal back into the LAN, where it is received by the second cable LAN adapter 32 coupled to digital TV 54.

84. By describing that the cable LAN adapters 32 communicate with each other through coaxial cable wiring, and by describing that the low pass filter reflects cable LAN signals into the cable LAN network, Afshary discloses, or at least renders obvious, that *each terminal device* [is] *capable of communicating with other terminal devices the reflected signal path created by the filter* as recited.

[10.3.2] wherein the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals.

85. Afshary is silent regarding *the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals*. Mills, however, teaches this limitation. And in the combined system of Afshary and Mills further described below, the combination discloses, or at least renders obvious, this limitation.

86. Mills relates to "computer network point to point data communications," and teaches that its invention "can be applied to … RF networks" and "appropriate media such as coax cable." Mills (EX1004), 1:10–13; 12:29–39.

87. Mills discloses:

> "Additionally, to assist the PLL, most **receivers use an equalizer to adjust for the characteristics of the incoming line**. Various types of equalizers (e.g. adaptive, fixed, etc.) can be used to balance out the effect the characteristics of the media have on the incoming signal. For

> example, a twisted pair cable typically experiences an attenuation which is a function of its length **and the frequency of interest**. The equalizer will compensate for the attenuation by creating a frequency dependant gain. **This results in a frequency response that is as flat as possible, across the spectrum, for that cable length**."

Mills (EX1004), 6:22–32.

88. Although Mills refers to a twisted pair cable in the example above, Mills makes clear that it also teaches that its invention "can be applied to … RF networks" and "appropriate media such as coax cable." Mills (EX1004), 1:10–13; 12:29–39.

89. Mills further discloses:

> "Similarly, in an embodiment, an adaptive receiver PHY equalizer is designed to remember the input characteristics of the link, as last determined. For example, storage of the equalizer coefficients, which contain information that maps the input characteristics, will enable the receiver to quickly adapt to the received signal."

Mills (EX1004), 23:41–46.

90. Mills discloses techniques performed in a receiver, such as a "network interface card" (Mills (EX1004), 3:22–25), which a POSITA would have recognized as a *terminal device* consistent with the '249 Patent's "LAN modem 270" coupled to a "LAN device 280" such as a PC. '249 Patent (EX1001), 4:8–13.

91. Thus, Mills discloses, or at least renders obvious, that receivers

(*terminal devices*) use an equalizer to adjust for characteristics of the incoming line (*perform equalization on the received signal*) that results in a frequency response that is as flat as possible (*that restores a flat frequency response*) due to characteristics of the incoming line such as the length of the cable and frequency of interest (*to overcome communication channel impairments*). Mills (EX1004), 6:22–32, 23:41–46.

92. The '249 Patent, for example, explains that a "reflection anywhere in the wiring produces a multipath signal in some or all wiring branches that creates inter-symbol interference (ISI)….ISI will degrade the bit error rate (BER) performance of the communication channel. The effects of ISI can be overcome by applying modulation techniques or receiver processing techniques. An adaptive equalizer in the terminal device creates a filter response that restores a flat frequency response impaired by the multipath signal." '249 Patent (EX1001), 5:64–6:13. The '249 Patent also explains that it creates reflections by "introducing any impairment into an element, for example **a cable**, component, or connector…." *Id.* at 4:63–65.

93. Because Mills teaches using equalizers to "balance out the effect the characteristics of **the media**" (i.e., the cable), it thus teaches overcoming *communication channel impairments* as recited. Further, it was known at the time of the '249 Patent that performing equalization in a receiver would overcome inter-symbol interference (ISI) (the impairment that the '249 Patent seeks to solve by

equalization), and thus, a POSITA would have recognized Mills' equalization to *overcome communication channel impairments* as recited. *See, e.g.*, Labat (EX1009), 1:4–19 ("present invention relates to an equalizer circuit (or 'equalizer') for receivers in digital communications systems…Equalization consists essentially in removing as much intersymbol interference (ISI) as possible….This can result from…a phenomenon of multi-path propagation."); Shin (EX1014), pp. 1–2 (describing a downstream unit (i.e., receiver) that includes a DFE equalizer "to eliminate intersymbol interference (ISI)"); Kerpez (EX1011), pp. 141 (stating that "[i]f there is no equalizer, then the distortion engendered by a long-delay echo will become additive noise that increases the BER" teaching that performing equalization improves bit error rate, consistent with disclosure of the '249 Patent), 136 (focusing on "signal reflections" much like the '249 Patent), 137 (teaching that "Signal distortion due to static reflections can be reduced by adaptive equalization."); Dehgan (EX1010), 7:6–11 (describing an "adaptive equalizer that compensates for Inter-Symbol Interference due to the characteristics of channel 16 and receiver 14.").

94. While Mills may not explicitly disclose that these impairments are *caused by the reflected signals*, this would have been obvious in the combination with Afshary, as Afshary's signals that are received by the terminal devices are *reflected signals*; thus, applying Mills' technique to Afshary would result in overcoming communication channel impairments *caused by the reflected signals* as

recited.

95. Indeed, in view of Kerpez (EX1011), a POSITA would have recognized that the reflected signals described in the '249 Patent (e.g., at 4:64–65) were well-known to be addressed by an equalizer:

> Digital transmission is also strongly affected by small signal reflections (commonly referred to as microreflections in the cable-industry literature), which would not be noticeable with analog video. Signal distortion due to static reflections can be reduced by adaptive equalization
>
> …
>
> As signals propagate, they encounter an impedance mismatch at every cable connector and component interface. Each mismatch causes a portion of the signal to be reflected and travel in the opposite direction. Two successive changes in direction can produce an echo, i.e., an attenuated and delayed replica of the signal, transmitted in the same direction. Echoes interfere with detection of the main signal, which travels directly to the receiver.

Kerpez (EX1011), p. 137.

96. Thus, the combined teachings of Afshary and Mills render obvious that *terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments*.

97. A POSITA would have been motivated to combine the teachings of Afshary and Mills for multiple reasons.

98. First, combining the teachings would have been no more than combining prior art elements according to known methods to yield predictable results. Together, Afshary and Mills teach each and every limitation recited in claim 10. A POSITA would have been motivated to combine Mills' teaching of a receiver that performs equalization with Afshary's teachings of receivers, to adjust for characteristics of the incoming line as Mills discloses, which a POSITA would have seen as an advantage, as doing so compensates for attenuation (i.e., loss) by creating a gain. Thus, a POSITA would have been motivated to combine this teaching of Mills with Afshary. A POSITA would have also recognized a reasonable expectation of success in the combination, as modifying Afshary's receivers in accordance with Mills teachings (to the extent Afshary's receivers did not have an equalizer) would have been straightforward to a POSITA having the requisite skill in the art. For example, because Mills discloses that "most receivers use an equalizer," and because equalizers in receivers were well-known at the time of the '249 Patent (as detailed in Labat and Shin, for example) a POSITA would have recognized a reasonable expectation of success in adding an equalizer to the terminal devices of Afshary (e.g., the cable LAN adapters), as doing so would have required (at most) only a small amount of additional circuitry that was well-known to a POSITA at the time.

99. Additionally, the combined teachings would have represented nothing

more than the use of a known technique (Mills' teachings of performing equalization on an incoming signal at a receiver) to improve Afshary's similar methods in the same way, i.e., to adjust for the characteristics of the incoming line. As detailed above, a POSITA would have been motivated to combine Mills' teaching of a receiver that performs equalization with Afshary's teachings of receivers, to adjust for characteristics of the incoming line as Mills discloses, which a POSITA would have seen as an advantage, as doing so compensates for attenuation (i.e., loss) by creating a gain. Thus, a POSITA would have been motivated to combine this teaching of Mills with Afshary. A POSITA would have also recognized a reasonable expectation of success in the combination, as modifying Afshary's receivers in accordance with Mills teachings would have been straightforward to a POSITA having the requisite skill in the art.

ii. Obviousness of Claim 10 by Amit and Mills

100. In my opinion, each and every limitation of claim 10 is rendered obvious by the combined teachings of Amit and Mills.

Claim 10

[10.0] A broadband local area network for transmitting modulated signals using coaxial cable building wiring containing a plurality of branches comprising:

101. To the extent the preamble is a limitation of the claims, Amit discloses it or at least renders it obvious.

102. First, Amit discloses a *broadband local area network for transmitting modulated signals using coaxial cable building wiring*:

> "In the prior art, **coaxial cables have been used for local area networks (LAN)** and for analog communications. The system and method of the present invention is designed for cable networks that carry video or other information from a headend or an antenna, and thus it is different from prior art LAN over coaxial cables. Furthermore, **the method employs a new digital modulation scheme** based on pass-band RF signaling, which is fundamentally different than prior art LAN and analog modulation over coaxial cables."

Amit (EX1006), 3:1–9.

> "FIG. 2 shows an example of a preferred embodiment of **the home network** method and system connected to a regional CATV plant;"

Amit (EX1006), 5:22–24.

> "FIG. 16 shows building wiring;"

Amit (EX1006), 5:40.

> "We note that the method and system will still be capable to perform home networking if the **home coaxial wiring** is not connected to a regional CATV plant [201], but connected to TV antenna, or even disconnected."

Amit (EX1006), 7:5–8.

103. Amit also discloses the *building wiring containing a plurality of branches*:

"The **cable network can be divided to 'branches' because the tree structure supplies attenuation between its branches**. The attenuation is granted by the coaxial cables and by components that include filters. Some of the splitters also provide good isolation between the sub networks that are connected to these components."

Amit (EX1006), 9:36–42.

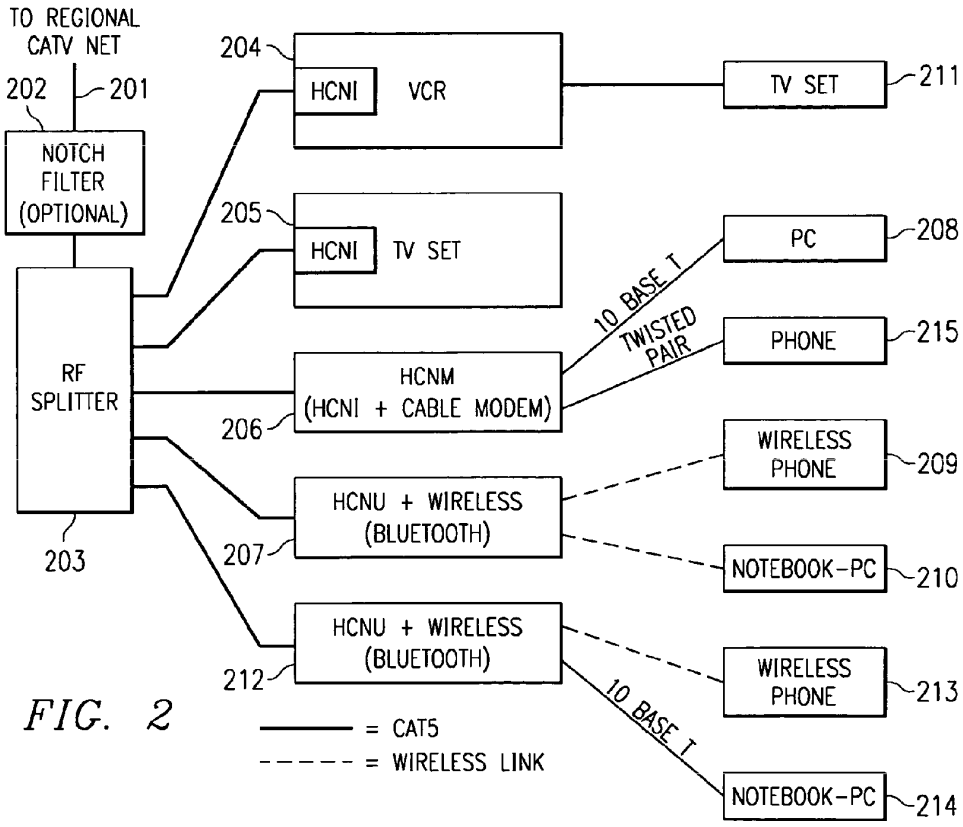


FIG. 2

Amit (EX1006), Fig. 2

104. Thus, Amit discloses, or at least renders obvious, the preamble of claim 10.

[10.1] a filter located at the point of entry of the building wiring that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring;

105. Amit discloses *a filter located at the point of entry of the building that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring.*

106. First, Amit discloses *a filter located at the point of entry of the building wiring.* As shown in Figure 2, Amit discloses a **notch filter** 202.

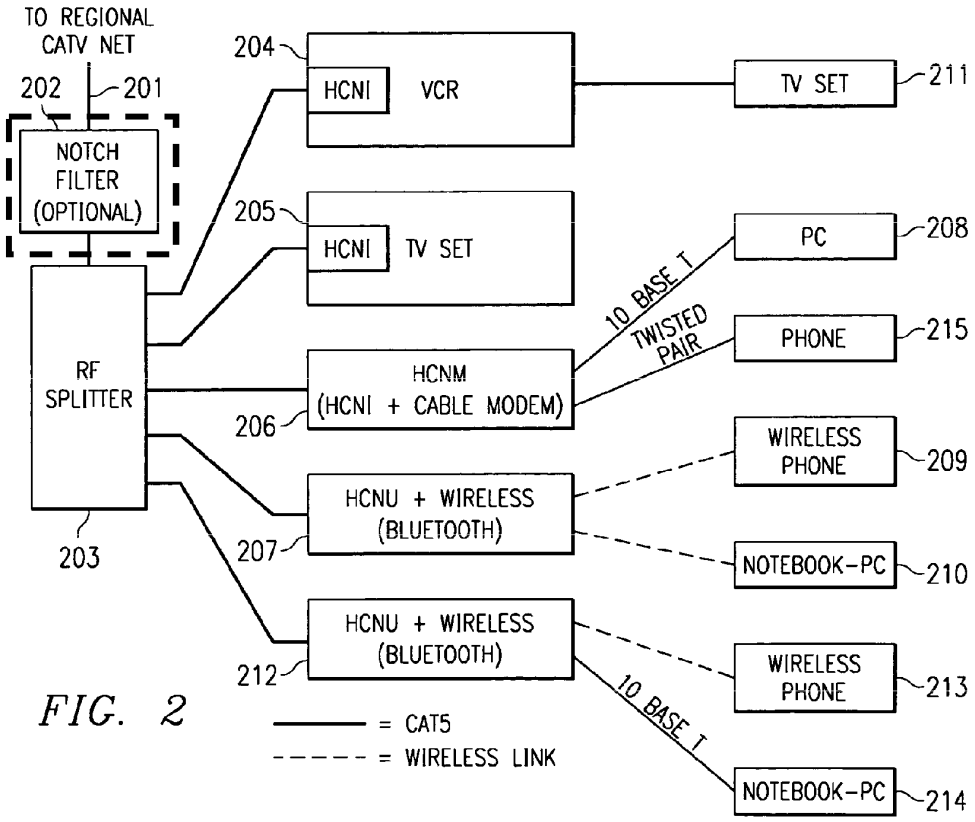


FIG. 2

Amit (EX1006), Fig. 2 (annotated)

107. The '249 Patent explains that, in one embodiment, "the filter is a series **notch filter**" and thus, Amit's notch filter is consistent with the examples disclosed in the '249 Patent. '249 Patent (EX1001), 5:40–41.

108. Amit discloses that the notch filter 202 *rejects network signals originating in the building wiring*:

> "**Notch filter** [202], is a **band reject filter that does not pass a certain RF range** that is used by the home networking devices [204–207, 212]."

Amit (EX1006), 6:29–31.

> "High reflection
>
> The **reflection from the notch filter** is in the power of the signal or it might be higher. When this reflection is higher than the signal we can use this reflection as our main signal."

Amit (EX1006), 14:1–6.

109. Amit further discloses *that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring*:

> "1. Subscribers' devices may communicate directly (not via the headend) using RF signaling over the coax cable. These **signals will typically propagate between the devices via reflections from other devices in the line**, e.g. splitters or amplifiers in the line."

Amit (EX1006), 3:15–23.

> "RF splitter [203] splits the signal coming from and to the regional CATV plant [201], to the signals coming to and from units [204–207, 212] respectively. The **signals** arriving to RF splitter [203] from the home units [204–207, 212] **are partially reflected back** to these home units [204–207]."

Amit (EX1006), 6:36–41.

110. Based on the configuration shown in Figure 2 of Amit, Amit teaches that, when signals arrive to the RF splitter from the home units, those signals from the home units are reflected by the notch filter and then subsequently split by RF

splitter to the units 204-207 and 212.

111. For example, a POSITA would have interpreted Amit's teachings as depicted in the following visual example, in which signals originating from the HCNM 206 (i.e., one of Amit's units 204-207, depicted by the thinner dashed lines terminating in an arrow) are reflected by notch filter 202, and then after being reflected by notch filter 202, are split by RF splitter 203 and communicated to all of units 204-207 and 212 (depicted by the thicker dashed lines terminating in an arrow).

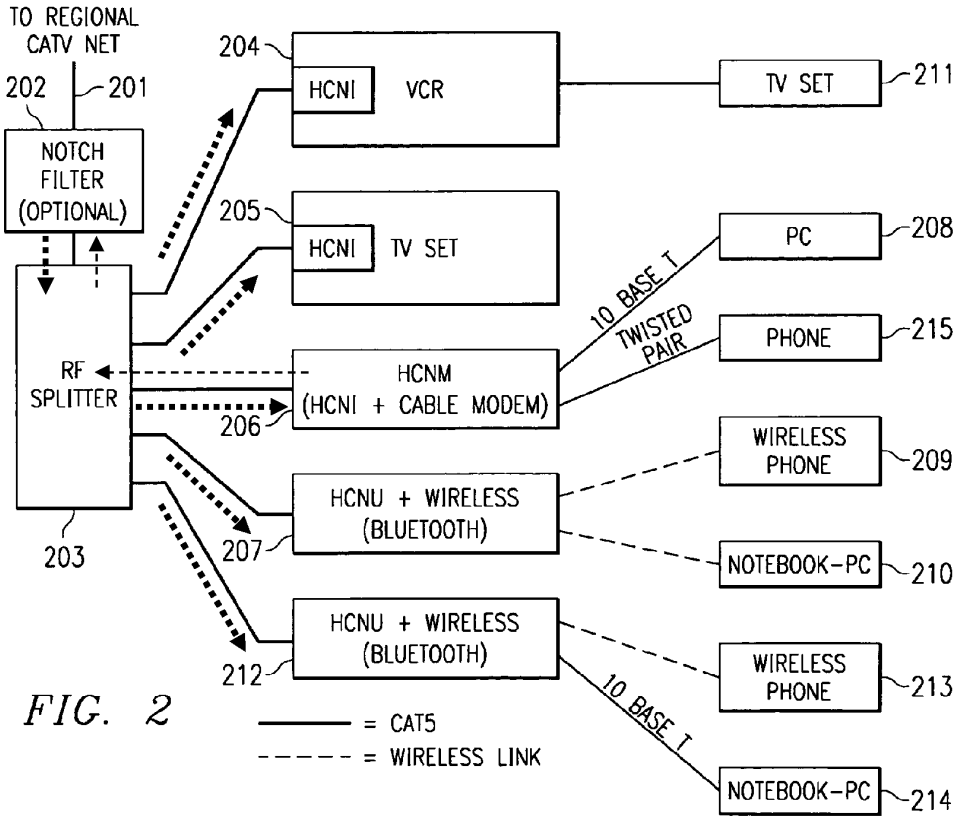


FIG. 2

Amit (EX1006), Fig. 2 (annotated)

112. Amit further discloses:

> "8. In a particular embodiment of the present invention, the splitter at the input to the user premises is replaced by a special splitter device that supplies higher quality home networking capabilities, or **a filter is connected to the splitter**. A passive filter connected to the splitter insures [sic] that the home networking signals in a specific home will not interfere with or be interfered by other home networks. This passive filter provides a "single home" operational mode that allows for low cost equipment and frequency re-use. A home network splitter that supplies less isolation between the home drops and includes the filter inside is also provided."

Amit (EX1006), 4:30–39.

> "The notch filter in the entrance of the home is a one of the basic elements in the home network design. If this notch filter exists in the HomeCN is disconnected from the regional cable network, therefore its' design is more simple (single home network)."

Amit (EX1006), 7:15–19.

113. Thus, Amit teaches that, in one embodiment, the notch *filter* is connected to the splitter to achieve a home networking environment using propagation of the signals by reflection.

114. Thus, Amit's notch filter discloses, or at least renders obvious, this limitation.

[10.2] at least one signal splitter;

115. Amit discloses *at least one signal splitter*:

> "**RF splitter [203] splits the signal** coming from and to the regional CATV plant [201], to the signals coming to and from units [204–207, 212] respectively. The **signals** arriving to RF splitter [203] from the home units [204–207, 212] are partially reflected back to these home units [204–207]."

Amit (EX1006), 6:36–41.

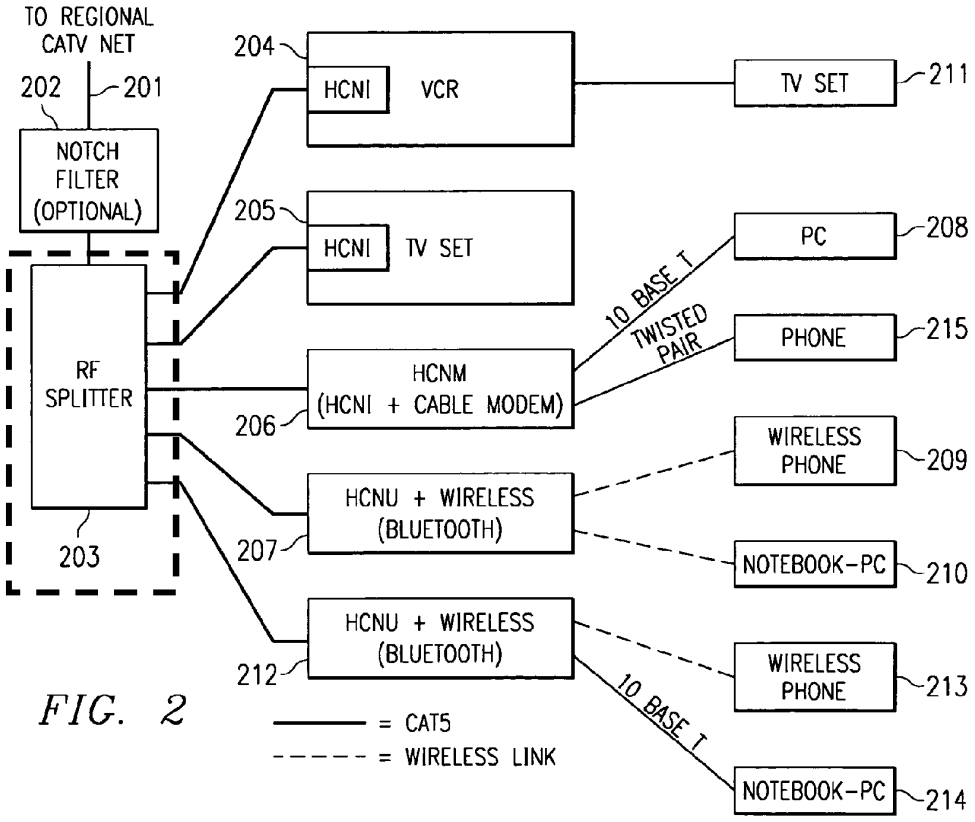


FIG. 2

Amit (EX1006), Fig. 2 (annotated)

116. Thus, Amit's RF splitter discloses, or at least renders obvious, *at least*

one signal splitter as recited.

[10.3.1] a plurality of terminal devices connected to the wiring branches, each terminal device capable of communicating with other terminal devices the reflected signal path created by the filter,

117. Amit discloses, or at least renders obvious, this limitation.

118. The '249 Patent explains that "terminals … can include cable converter boxes, televisions, and cable modems" ('249 Patent (EX1001), 1:27–31) and one example of a "terminal device" is "LAN modem 270" ('249 Patent (EX1001), 3:64–4:2). The LAN modem 270 terminal device in the '249 Patent is shown as coupled to LAN device 280 which "can be, for example, a personal computer (PC)." *See* '249 Patent (EX1001), Fig. 2, 4:8–11.

119. First, Amit discloses *a plurality of terminal devices connected to the wiring branches*:

> "The signals arriving to RF splitter [203] from the **home units [204–207, 212] are partially reflected back to these home units [204–207]**. It may be recommended to use splitters that deliberately have high reflection levels (although we believe that the method and system can operate with typical commercial splitters). **The Video Cassette Recorder (VCR) [204] and TV set [205] include Home Cable Networking Interface (HCNI) devices. The Personal Computer (PC) [208] is connected to a Home Networking Cable Modem (HNCM) device [206] (that supplies the Home Networking functionality and the Cable Modem functionality)**. The HCNM is

> also connected to a phone [215] and supplies the VoIP functionality. A PC that includes HCNI can be connected directly to the HCN. The HCNU+wireless units [207, 212] are connected to the CATV and has a wireless output (e.g. Bluetooth, HomeRF or infra-red) which connects to devices within the vicinity of the device [207], such as wireless telephone unit [209, 213], and a notebook computer [210]). The HCNU devices are capable of transmitting and receiving digital communications signals between them. These **signals propagate in the CATV wires and are reflected by the RF splitter** [203]. The HCNM device is further capable of operating as a DOCSIS cable modem and communicating with a headend of a regional CATV plant [201]. The HNCI's, the HCNU's and the HNCM use Home Cable Network Protocol HCNP."

Amit (EX1006), 6:39–64.

120. Consistent with the '249 Patent's description of televisions as terminals discussed above, Amit's "TV set [205]" teaches a *terminal device*[]. Similarly, consistent with the '249 Patent's description of "cable modems," and "LAN modem 270" coupled to LAN device 280 (a PC) as terminal devices, Amit's HCNM 206, which "supplies the Home Networking functionality" (i.e., LAN functionality) and "Cable Modem functionality" also teaches a *terminal device*[]. Thus, Amit teaches *a plurality of terminal devices* as recited.

121. Second, the above disclosure also demonstrates that Amit's terminal devices are *capable of communicating with other terminal devices the reflected*

signal path created by the filter:

> "The signals arriving to RF splitter [203] from the **home units [204–207, 212] are partially reflected back to these home units [204–207]**. It may be recommended to use splitters that deliberately have high reflection levels (although we believe that the method and system can operate with typical commercial splitters). **The Video Cassette Recorder (VCR) [204] and TV set [205] include Home Cable Networking Interface (HCNI) devices. The Personal Computer (PC) [208] is connected to a Home Networking Cable Modem (HNCM) device [206] (that supplies the Home Networking functionality and the Cable Modem functionality)**. …. The HCNU devices are capable of transmitting and receiving digital communications signals between them. **These signals propagate in the CATV wires and are reflected by the RF splitter [203]**. The HCNM device is further capable of operating as a DOCSIS cable modem and communicating with a headend of a regional CATV plant [201]. The HNCI's, the HCNU's and the HNCM use Home Cable Network Protocol HCNP."

Amit (EX1006), 6:39–64.

122. In one embodiment of Amit, the splitter and notch filter are integrated, such that the *reflected signal path* is *created by the filter* as recited:

> "To use the Single Home operation mode that simplifies the equipment, a notch filter should be added. This filter can be added in the following points:
> Adding a filter at the flat/single user home entrance.

> The advantage of this method is the ability of the end user to add the filter by himself.
>
> Replace the house basement splitter that split the signals between the flats to a special splitter.
>
> The advantage of this method is the ability of the MSO to **change a single splitter to a special splitter that includes internal filter**. This splitter enables more effective usage of the home networking for some flats (homes)."

Amit (EX1006), 13:31–43.

123. Thus, Amit discloses, or at least renders obvious, this limitation.

[10.3.2] wherein the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals.

124. Amit is silent regarding *the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals*. Mills, however, teaches this limitation. And in the combined system of Amit and Mills further described below, the combination discloses, or at least renders obvious, this limitation.

125. Mills relates to "computer network point to point data communications," and teaches that its invention "can be applied to … RF networks" and "appropriate media such as coax cable." Mills (EX1004), 1:10–13; 12:29–39.

126. Mills discloses:

> "Additionally, to assist the PLL, most **receivers use an equalizer to adjust for the characteristics of the incoming line**. Various types of equalizers (e.g. adaptive, fixed, etc.) can be used to balance out the effect the characteristics of the media have on the incoming signal. For example, a twisted pair cable typically experiences an attenuation which is a function of its length **and the frequency of interest**. The equalizer will compensate for the attenuation by creating a frequency dependant gain. **This results in a frequency response that is as flat as possible, across the spectrum, for that cable length**."

Mills (EX1004), 6:22–32.

127. Although Mills refers to a twisted pair cable in the example above, Mills makes clear that it also teaches that its invention "can be applied to … RF networks" and "appropriate media such as coax cable." Mills (EX1004), 1:10–13; 12:29–39.

128. Mills further discloses:

> "Similarly, in an embodiment, an adaptive receiver PHY equalizer is designed to remember the input characteristics of the link, as last determined. For example, storage of the equalizer coefficients, which contain information that maps the input characteristics, will enable the receiver to quickly adapt to the received signal."

Mills (EX1004), 23:41–46.

129. Mills discloses techniques performed in a receiver, such as a "network interface card" (Mills (EX1004), 3:22–25), which a POSITA would have recognized

as a *terminal device* consistent with the '249 Patent's "LAN modem 270" coupled to a "LAN device 280" such as a PC. '249 Patent (EX1001), 4:8–13.

130. Thus, Mills discloses, or at least renders obvious, that receivers (*terminal devices*) use an equalizer to adjust for characteristics of the incoming line (*perform equalization on the received signal*) that results in a frequency response that is as flat as possible (*that restores a flat frequency response*) due to characteristics of the incoming line such as the length of the cable and frequency of interest (*to overcome communication channel impairments*). Mills (EX1004), 6:22–32, 23:41–46.

131. The '249 Patent, for example, explains that a "reflection anywhere in the wiring produces a multipath signal in some or all wiring branches that creates inter-symbol interference (ISI)….ISI will degrade the bit error rate (BER) performance of the communication channel. The effects of ISI can be overcome by applying modulation techniques or receiver processing techniques. An adaptive equalizer in the terminal device creates a filter response that restores a flat frequency response impaired by the multipath signal." '249 Patent (EX1001), 5:64–6:13. The '249 Patent also explains that it creates reflections by "introducing any impairment into an element, for example **a cable**, component, or connector…." *Id.* at 4:63–65.

132. Because Mills teaches using equalizers to "balance out the effect the characteristics of **the media**" (i.e., the cable), it thus teaches overcoming

communication channel impairments as recited. Further, it was known at the time of the '249 Patent that performing equalization in a receiver would overcome inter-symbol interference (ISI) (the impairment that the '249 Patent seeks to solve by equalization), and thus, a POSITA would have recognized Mills' equalization to *overcome communication channel impairments* as recited. *See, e.g.*, Labat (EX1009), 1:4–19 ("present invention relates to an equalizer circuit (or 'equalizer') for receivers in digital communications systems…Equalization consists essentially in removing as much intersymbol interference (ISI) as possible….This can result from…a phenomenon of multi-path propagation."); Shin (EX1014), pp. 1–2 (describing a downstream unit (i.e., receiver) that includes a DFE equalizer "to eliminate intersymbol interference (ISI)"); Kerpez (EX1011), pp. 141 (stating that "[i]f there is no equalizer, then the distortion engendered by a long-delay echo will become additive noise that increases the BER" teaching that performing equalization improves bit error rate, consistent with disclosure of the '249 Patent), 136 (focusing on "signal reflections" much like the '249 Patent), 137 (teaching that "Signal distortion due to static reflections can be reduced by adaptive equalization."); Dehgan (EX1010), 7:6–11 (describing an "adaptive equalizer that compensates for Inter-Symbol Interference due to the characteristics of channel 16 and receiver 14.").

133. While Mills may not explicitly disclose that these impairments are *caused by the reflected signals*, this would have been obvious in the combination

with Amit, as Amit's signals that are received by the terminal devices are *reflected signals*; thus, applying Mills' technique to Amit would result in overcoming communication channel impairments *caused by the reflected signals* as recited.

134. Indeed, in view of Kerpez (EX1011), a POSITA would have recognized that the reflected signals described in the '249 Patent (e.g., at 4:64–65) were well-known to be addressed by an equalizer:

> Digital transmission is also strongly affected by small signal reflections (commonly referred to as microreflections in the cable-industry literature), which would not be noticeable with analog video. Signal distortion due to static reflections can be reduced by adaptive equalization
>
> …
>
> As signals propagate, they encounter an impedance mismatch at every cable connector and component interface. Each mismatch causes a portion of the signal to be reflected and travel in the opposite direction. Two successive changes in direction can produce an echo, i.e., an attenuated and delayed replica of the signal, transmitted in the same direction. Echoes interfere with detection of the main signal, which travels directly to the receiver.

Kerpez (EX1011), p. 137.

135. Thus, the combined teachings of Amit and Mills render obvious that *terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments*.

136. A POSITA would have been motivated to combine the teachings of Amit and Mills for multiple reasons.

137. First, combining the teachings would have been no more than combining prior art elements according to known methods to yield predictable results. Together, Amit and Mills teach each and every limitation recited in claim 10. A POSITA would have been motivated to combine Mills' teaching of a receiver that performs equalization with Amit's teachings of receivers, to adjust for characteristics of the incoming line as Mills discloses, which a POSITA would have seen as an advantage, as doing so compensates for attenuation (i.e., loss) by creating a gain. Thus, a POSITA would have been motivated to combine this teaching of Mills with Amit. A POSITA would have also recognized a reasonable expectation of success in the combination, as modifying Amit's receivers in accordance with Mills teachings (to the extent Amit's receivers did not have an equalizer) would have been straightforward to a POSITA having the requisite skill in the art. For example, because Mills discloses that "most receivers use an equalizer," and because equalizers in receivers were well-known at the time of the '249 Patent (as detailed in Labat and Shin, for example) a POSITA would have recognized a reasonable expectation of success in adding an equalizer to the terminal devices of Amit (e.g., the units 204-207 and 212), as doing so would have required (at most) only a small amount of additional circuitry that was well-known to a POSITA at the time.

138. Additionally, the combined teachings would have represented nothing more than the use of a known technique (Mills' teachings of performing equalization on an incoming signal at a receiver) to improve Amit's similar methods in the same way, i.e., to adjust for the characteristics of the incoming line. As detailed above, a POSITA would have been motivated to combine Mills' teaching of a receiver that performs equalization with Amit's teachings of receivers, to adjust for characteristics of the incoming line as Mills discloses, which a POSITA would have seen as an advantage, as doing so compensates for attenuation (i.e., loss) by creating a gain. Thus, a POSITA would have been motivated to combine this teaching of Mills with Amit. A POSITA would have also recognized a reasonable expectation of success in the combination, as modifying Amit's receivers in accordance with Mills teachings would have been straightforward to a POSITA having the requisite skill in the art.

V. CONCLUSION

139. I declare that all statements made herein of my knowledge are true, and that all statements made on information and belief are believed to be true, and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Date: September 11, 2023

By: Stuart J Lipoff
Stuart Lipoff

Appendix A

Stuart J. Lipoff

Mr. Lipoff is president of IP Action Partners Inc, a consulting practice in TIME (telecommunications, information technology, media, electronics, and ebusiness) industries and technologies. He draws upon his 30+ years of experience in a wide variety of technologies and industries to assist clients with knowledge based consulting services involving complex business decisions and problem resolution.

Mr. Lipoff was employed 25 years by Arthur D Little, Inc (ADL) as VP and Director of Communications, Information Technology, and Electronics (CIE); 4 years by Bell & Howell Communications Company as a Section Manager, and 3 years by Motorola's Communications Division as a Project Engineer. At ADL he was responsible for the firm's global CIE practice in laboratory based contract engineering, product development, and technology based consulting. At both Bell & Howell and Motorola, he had project design responsibility for wireless communications and paging products.

Stuart Lipoff has Bachelor's Degrees in Electrical Engineering and in Engineering Physics, both from Lehigh University. He also has received a Masters Degree in Electrical Engineering from Northeastern University, and a MBA degree from Suffolk University.

Mr. Lipoff is a fellow of the IEEE Consumer Electronics, Communications, Computer, Circuits, and Vehicular Technology groups. He is a member of the IEEE Consumer Electronics Society National Administration Committee, and was the Boston Chapter Chairman of the IEEE Vehicular Technology Society. He served as 1996-7 President of the IEEE Consumer Electronics Society and as Chairman of the Consumer Electronics Society Technical Activities and Standards Committee; served as VP of Publications for The IEEE Consumer Electronics Society; and currently serves as VP of Industry Activities and Standards. He has also chaired the search committee for Sony supported Mazura Ibuka Award in consumer electronics and is a current committee member. As Vice President and Standards Group Chairman of the Association of Computer Users, he served as the ACU representative to The ANSI X3 Standards group. For the Federal Communications Commission's Citizens advisory committee on CB radio (PURAC), he served as Chairman of the task group on user rule compliance. He has been elected to membership in the Society of Cable Television Engineers (SCTE), The Association of Computing Machinery (ACM) , and The Society of Motion Picture and Television Engineers (SMPTE).

Stuart Lipoff holds a FCC General Radiotelephone License and a Certificate in Data Processing (CDP) from the ACM supported Institute for the Certification of Computing Professionals (ICCP). He is a registered professional engineer (by examination) in The Commonwealth of Massachusetts.

Mr. Lipoff holds seven USA patents and has published articles in Electronics Design, Microwaves, EDN, The Proceedings of the Frequency Control Symposium, Optical Spectra, and numerous IEEE publications. He has presented papers at many IEEE and other meetings. In the fall of 2000, he served as general program chair for The IEEE Vehicular Technology Conference

on advanced wireless communications technology. He has organized sessions at The International Conference on Consumer Electronics and was the 1984 program chairman. He conducted an eight week IEEE sponsored short course on Fiber Optics Systems Design. In 1984, he was awarded IEEE's Centennial Medal and in 2000 IEEE's Millennium Metal.

He has served as a member of the USA advisory board to the National Science Museum of Israel and has presented a short course on international product development strategies as a faculty member of Technion Institute of Management in Israel. He also as a member of the board of directors of The Massachusetts Future Problem Solving Program.

Mr Lipoff is internationally recognized as an authority and opinion leader in new economy related businesses and technology. Citations supporting his recognition can be found on his web site at http://www.ipaction.com .

Some examples of projects he has performed in the cable TV and telecommunications sector include:

- For Next Generation Network Architecture llc (NGNA llc) consortium of Comcast, Cox, and Time-Warner; he managed the project that produced a five year planning horizon vision for the services and technology the cable industry will seek to deploy. The services and vision were then mapped to overall architectures impacting network elements in the back office, head-end, outside plant, and customer premises and documented in next generation network recommendations. The project involved coordination with over fifty senior technical staff in the three cable MSO sponsors as well as interactions with over 100 suppliers of systems, software, and products to the cable industry. The recommendations and findings were wide ranging including, for example: software defined downloadable conditional access (CA) systems, migration of the outside plant from low to mid split, bridging from network CA to in-home network digital rights management systems (DRM), and migration from 1way to 2way digital TV.

- For Chameleon Network Inc (CNI), a consumer electronic wallet startup, he served as CTO developing overall systems architecture, prototype development, and developing an intellectual property patent portfolio for which he a named inventor. The CNI system employed multilayer security and feature management controls that facilitated trusted interactions between end consumers, bank financial service providers, and merchants.

- For Comcast, he explored opportunities to acquire spectrum to launch an advanced high speed public network wireless system that is optimized to deliver multimedia content such as video and music entertainment in addition to competitive voice services. This project involved looking beyond today's evolutionary air interface road maps to new 4th and 5th generation air interface technologies.

- Leadership of the project for CableLabs that studied the technology and economics of wireless personal communications technology. This project is highlighted in the history of CableLabs in their website as one of the significant accomplishments of The Labs. The

project included the selection of CDMA technologies and the development of strategies to compete with incumbent cellular carriers. This effort led to the formation of a consortium between Sprint and the cable MSOs that has evolved into the present Sprint PCS business.

- Security audit, design review, and recommendations for product improvement of a new digital rights management (DRM) hardware/software module developed by DataPlay for deployment in mass market advanced optical media and for electronic music distribution via the internet including meeting with each of the major record labels to satisfy their concerns regarding security robustness and ability to support flexible business models for content and rights management.

- For a project jointly funded by the RIAA and IFPI, on behalf of the music industry, he performed a project to identify technology solutions and business models to protect the music content on CD-Audio media. The project involved coordination with a committee of each of the major content owners and record labels.

- On behalf of a leading law firm representing TV-Com International, he supported the client as a damages expert in patent litigation related to digital conditional access and encryption technology employed to protect video entertainment delivered over cable television networks. This project required the develop of sophisticated financial models which demonstrated the value of the patents by computing the impact the technology had on the overall enterprise value of the defendant.

- On behalf of a leading law firm representing IPPV Enterprises, he supported the client as damages expert in patent ligtigation related to secure key exchange and key management as employed by the defendant- Echostar. As above, this project required the development of sophisticated financial models which demonstrated the value of the patents by computing the impact the technology had on the overall enterprise value of the defendant

- Leadership of the project which developed the series of DOCSIS specifications for high speed residential cable modems. The scope of work included developing a roadmap and strategic framework for evolving the business from simple high speed internet services to multimedia broadband services combining voice, data, and secure electronic content delivery. This project was performed under contract to the MCNS consortium of cable TV operators representing 85% of the subscriber base in North America and has since been adopted by the United Nations as a global telecommunications standard.

- Under contract to The National Cable Telecommunications Association (NCTA), he represented the point of view of the cable industry in an FCC workshop on universal broadband availability. This project involved a presentation on the technical capabilities of the cable industry DOCSIS cablemodem infrastructure, a comparison of cablemodem services with DSL, fiber to home, and wireless broadband. Issues related to net neutrality were included in the discussion. Following the FCC workshop, I was further commissioned

by NCTA to prepare a white paper comparing DOCSIS cablemodem services with fiber to the home services such as FiOS.

- For The National Association of Broadcasters (NAB) he managed a project to engage NAB members in the development of new applications and services for over-the-air radio and television broadcasting. The project included developing a list and priority recommendations for research projects for consideration of funding by NAB which would explore the most promising candidate research projects.

- For the cable operator consortium SpectrumCo I am supporting exploration of alternative means to provide competitive public network wireless services to existing cable and new customers. The project involves exploring 3rd and 4th generation wireless air-interface technologies and developing models that integrate capital expenditures forecasts with operating profits to develop financial performance perspectives of alternatives. A unique aspect of this project includes developing technology forecasts and estimates of subscriber equipment capable of supporting video and multimedia content delivery to handsets.

- For COMCAST Cablevision of Philadelphia, I assisted in the development of a family of advanced two-way, residential digital services, including: development of system/service concepts and specification/selection of a range of equipment to provide this service. Detailed operating and balance sheet financial models of were developed to measure financial attractiveness of alternatives and use as a tool to select specific strategies.

- For a division of Westinghouse in cooperation with Kansai Electric (Japan), I developed detailed business plans for the launch of cable TV and associated broadband services. The project involved demand studies to assess adoption and desires of consumers followed by recommendations on marketing, operating, and technology strategies.

- For the Westinghouse Teleprompter Cable Company, I studied the market for a fiberoptic based institutional data network in Pittsburgh and developed the business and financial models to examine the financial attractiveness of offering these services.

- For Times Mirror Cable TV, I developed business plans for the upgrade of selected systems to 2way capability and exploration of alternative telephony and other advanced services to be provided. I worked with the client to develop risk/reward perspectives for specific service options and develop a roadmap in order of most attractive priorities.

- Analysis and recommendations in a study funded by CableLabs which led to today's hybrid-fiber coax architecture widely deployed worldwide for delivering broadband multimedia services to the home. The project involved developing forecasts of technology trends in parallel with projecting the business applications. Detailed proforma financial models were developed to make the cost/benefit of deploying this technology visible to the cable industry, and strategies were developed and recommended to the industry.

Stuart J. Lipoff

- On behalf of a leading law firm representing TV-Com International, he supported the client as a damages expert in patent litigation related to digital conditional access and encryption technology employed to protect video entertainment delivered over cable television networks. This project required the develop of sophisticated financial models which demonstrated the value of the patents by computing the impact the technology had on the overall enterprise value of the defendant.

- On behalf of a leading law firm representing IPPV Enterprises, he supported the client as damages expert in patent litigation related to secure key exchange and key management as employed by the defendant- Echostar. As above, this project required the develop of sophisticated financial models which demonstrated the value of the patents by computing the impact the technology had on the overall enterprise value of the defendant

- Leadership of a project jointly funded by The National Association of Broadcasters and Maximum Service TV Association to analyze options to accelerate the adoption of digital TV technology by consumers. His recommendations were provided to the FCC and were the basis for the August 2002 report and order the FCC issued to mandate a roll-out schedule for digital TV receivers.

- For Bell South I contributed to a major operations improvement project involving developing forecasts of the future competitive environment, customer needs, a strategy to compete, and new business models. These forecasts were then applied to develop business redesign recommendations and a list of new services offerings.

- For Magnavox Cable TV (a division of N.A. Philips) I performed comparative cost and technical analysis of fiber optics versus conventional coax systems. This analysis was followed by the development of strategies and sales support materials to pitch the new HFC systems to cable TV operators.

- I performed additional work for The Cable Television Laboratories in which I studied the application of remote and distributed antennas supporting microcellular PCS on hybrid fiber-coax cable TV systems. A key issue explored was the requirement for the fiber optic portion of the plant to carry the PCS carriers in analog form and deal with the wide dynamic range demands for inbound signals.

- For a consortium of the major cable TV operators consisting of Comcast, Time Warner, Cox, and Rogers; I developed models for prediction of reliability of alternative HFC architectures and their suitability to provide local exchange voice services competitive with ILECs. The project required understanding the reliability specifications employed in conventional local exchange carrier telephone plant and the contributions between hardware, power, and workmanship failures. Each of three alternative fiber optic architectures for cable delivered voice telephony were studied and modeled to develop reliability predictions and recommendations were made as to which aspects of the three alternatives were the best choice for cable delivered voice telephony.

Stuart J. Lipoff

- For GTE Systems I prepared a presentation on developing commercial opportunities for wide-bandwidth ATM switching. The scope of applications included: metro area network LAN interconnect, broadcast studio digital video routing and switching, and distributed switching for digital wireless personal communications networks. The goal of the project was to explore cable TV and other commercial applications for their military systems broadband switching technology.

- For Bellcore (now Telcordia division of SAIC), I evaluated the R&D portfolio of their Applied Research Group. The main components of this portfolio were DWDM technologies for long haul interLATA communications as well as optical multiplexing components for passive optical network applications in cable TV and advanced broadband residential services. I provided R&D planning assistance on the allocation of funding and priorities to the R&D efforts and identified opportunities for securing intellectual property rights to critical R&D efforts.

- For the ViaSat Division of Modern Times Group (Sweden) he developed business plans for the launch of a new service that bundled discounted long distance telephone services with direct to home satellite TV services and other interactive services including gambling via the set-top box.

- For Magnavox Cable TV, he supported the development of a set-top-box cable converter with a microcomputer based user interface and conditional access system. The product was sold in both the USA and Canada.

- For Southern New England Telephone (SNET), he supported the launch of a video dial tone service. He contribution to the project included engineering and cost analysis of system alternatives as well as assisting with the preparing of RFPs for set-top-boxes and other network elements.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
90/019,247	**09/11/2023 01:38:53 PM ET**	**50348.109**

Title of Invention

NETWORK INTERFACE DEVICE AND BROADBAND LOCAL AREA NETWORK USING COAXIAL CABLE

Application Information

APPLICATION TYPE	Utility / ex parte reexam	PATENT #	7594249
CONFIRMATION #	2398	FILED BY	Krista Myrick
PATENT CENTER #	62770827	AUTHORIZED BY	Raghav Bajaj
CUSTOMER #	23446	FILING DATE	-
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Itzhak Gurantz

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 506990	E20239AD41019314	Krista Myrick

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1812	REQUEST FOR EX PARTE REEXAM-NON-STREAMLINED	12600.00	1	12600.00
			TOTAL AMOUNT:	**$12,600.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent of Itzhak Gurantz et al.	§	REQUEST FOR *EX PARTE* REEXAMINATION
U.S. Patent No. 7,594,249	§	
	§	Attorney Docket No.: 50348.109
Filed: July 21, 2001	§	
	§	
Priority: May 4, 2001	§	
	§	Customer No.: 27683
Issued: Sept. 22, 2009	§	
	§	Proceeding No.: *to be assigned*
Title: NETWORK INTERFACE DEVICE AND BROADBAND LOCAL AREA NETWORK USING COAXIAL CABLE	§	
	§	
	§	
	§	
	§	
	§	

REQUEST FOR EX PARTE REEXAMINATION OF U.S. PATENT 7,594,249

Mail Stop *Ex Parte* Reexam
Attn: Central Reexamination Unit
Hon. Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to the provisions of 35 U.S.C. §§ 301-307, Unified Patents, LLC ("Requester") hereby requests an *ex parte* reexamination of claim 10 of United States Patent No. 7,594,249 ("the '249 Patent," EX1001), which issued on September 22, 2009, to Itzhak Gurantz et al., resulting from U.S. Patent Application No. 09/910,412 filed on July 21, 2001, claiming priority to U.S. Provisional Patent Application No. 60/288,967 filed on May 4, 2001. The '249 Patent is presently assigned to Entropic Communications, LLC ("Entropic"). The assignment to Entropic is recorded in the U.S. Patent and Trademark Office ("USPTO") at reel/frame 055899/0291.

Requester submits that this Request presents prior art references and analysis that are non-cumulative of the prior art that was before the Examiner during the original prosecution of the

'249 Patent and that claim 10 of the '249 Patent is invalid over these references. Requester therefore requests that an order for reexamination and an Office Action rejecting claim 10 be issued.

TABLE OF CONTENTS

I. STATEMENT POINTING OUT SUBSTANTIAL NEW QUESTIONS OF PATENTABILITY 4

A. OVERVIEW OF THE '249 PATENT AND ITS HISTORY 4

(i) Scope of the '249 Patent 4

(ii) Prosecution History of the '249 Patent 7

B. LEVEL OF ORDINARY SKILL IN THE ART 9

C. CLAIM CONSTRUCTION 9

D. LISTING OF PRIOR ART PATENTS AND PRINTED PUBLICATIONS 10

(i) Overview of Afshary 11

(ii) Overview of Amit 12

(iii) Overview of Mills 13

E. AFSHARY, MILLS, AND AMIT EACH PRESENT SUBSTANTIAL NEW QUESTIONS OF PATENTABILITY 14

(i) Afshary Presents Substantial New Questions of Patentability 15

(ii) Amit Presents Substantial New Questions of Patentability 15

(iii) Mills Presents Substantial New Questions of Patentability 15

II. DETAILED EXPLANATION OF THE PERTINENCE AND MANNER OF APPLYING THE PRIOR ART REFERENCES TO EVERY CLAIM FOR WHICH REEXAMINATION IS REQUESTED 16

A. PROPOSED REJECTIONS OF THE CLAIM 16

(i) Proposed Rejection A1: Claim 10 is rendered obvious by Afshary in view of Mills under 35 U.S.C. § 103(a). 17

(ii) Proposed Rejection B1: Claim 10 is obvious over Amit in view of Mills under 35 U.S.C. § 103(a). 32

III. DISCLOSURE OF CONCURRENT LITIGATION AND REEXAMINATION PROCEEDINGS 46

IV. CERTIFICATION REGARDING NO ESTOPPEL 46

V. THIS REQUEST SHOULD NOT BE DENIED UNDER 35 U.S.C. § 325(D) 46

VI. LIST OF EXHIBITS 47

VII. CONCLUSION 48

VIII. CERTIFICATE OF SERVICE 49

I. STATEMENT POINTING OUT SUBSTANTIAL NEW QUESTIONS OF PATENTABILITY

Prior to describing the substantial new questions of patentability presented in this Request, provided below is an overview of the '249 Patent, a discussion of claim construction, and a listing of the prior art being discussed in the present Request.

A. Overview of the '249 Patent and its History

(i) Scope of the '249 Patent

The '249 Patent is titled "Network Interface Device and Broadband Local Area Network Using Coaxial Cable" and it is directed to a "local area network" which "uses coaxial cable wiring for interconnection of terminal devices." '249 Patent (EX1001), Abstract. The '249 Patent uses a "frequency selective network interface device … placed at the building point of entry … to reflect network signals transmitted by terminal devices back into the building distribution to be received by other terminal devices." *Id.* In this way, "the network interface provides a path for terminal devices to transmit and receive from other terminal devices." *Id.*

Copies of the '249 Patent and its file history are provided as Exhibits 1001 and 1002, respectively. To provide a background of the '249 Patent, independent claim 10, for which reexamination is requested, is reproduced below.

> 10. A broadband local area network for transmitting modulated signals using coaxial cable building wiring containing a plurality of branches comprising:
> a filter located at the point of entry of the building wiring that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring;
> at least one signal splitter;
> a plurality of terminal devices connected to the wiring branches, each terminal device capable of communicating with other terminal devices the reflected signal path created by the filter, wherein the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals.

In general, the claim for which reexamination is requested is related to creating a local area network using coaxial wiring. The '249 Patent notes that when "the coaxial cable used for the

LAN is shared with a community aerial television (CATV) or cable TV service the signals must be separated to avoid interference." '249 Patent (EX1001), 1:22–24. The '249 Patent explains that in "a conventional cable TV or cable modem use, this isolation is of no concern because terminal devices do not communicate with each other." *Id.*, 2:15–18. However, in "a LAN system, terminal devices communicate directly with each other." *Id.*, 2:18–21. Thus, the '249 Patent purports to provide "a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." *Id.*, 3:4–7.

More specifically the '249 Patent contemplates "a frequency selective network interface device placed at the building point of entry (POE) to reflect upstream signals transmitted by terminal devices back into the building distribution whereby the signals may be received by other terminal devices. By reflecting upstream signals back into the building as downstream signals, the network interface device provides a path for terminal devices to transmit to and receive from other terminal devices." '249 Patent (EX1001), 3:11–18. According to the '249 Patent, this "overcomes the problem of port-to-port isolation in the signal splitter/combiners." *Id.*, 3:18–20. Additionally, the '249 Patent states that "the network interface device is to isolate signals generated within the building and prevent the transmission outside the building. Due to the frequency selectivity of the network interface, upstream and downstream signals for cable TV and cable modem service are not disturbed." *Id.*, 3:25–27.

Figure 2 of the '249 Patent shows "a signal distribution plan according to the present invention." '249 Patent (EX1001), 3:58–59.

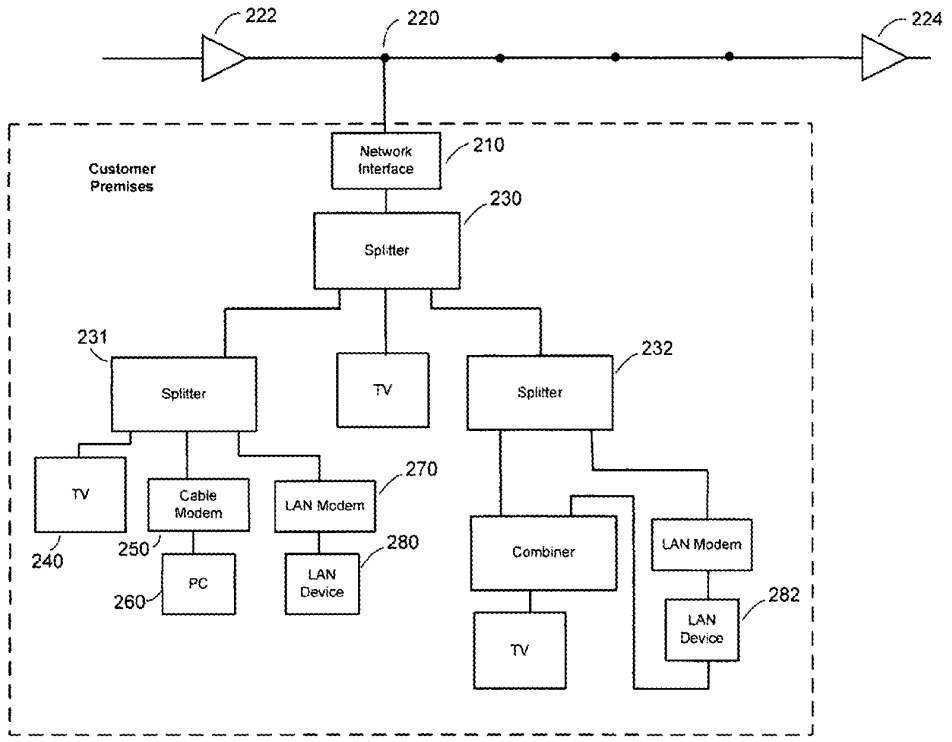


FIG. 2

'249 Patent (EX1001), Fig. 2

In describing Figure 2, the '249 Patent states that a "frequency selective network interface device 210 is located at the point of entry (POE) to the building LAN wiring.... The network interface 210 produces a reflection of upstream signals back into the LAN wiring so that terminal devices, such as LAN modem 270, can receive a signal transmitted by another terminal device connected to the LAN wiring forming the network. The invention intentionally introduces a reflection into the LAN wiring and exploits the reflected signal to provide communication path in a system that has high isolation between terminal devices due to splitters 230, 231, and 232 installed in the wiring." '249 Patent (EX1001), 3:59–4:13.

However, the use of in-building coaxial cable wiring to create a local area network was well-known prior to the '249 Patent. For example, prior to the '249 Patent's priority date, Afshary disclosed "a coaxial cable local area network (LAN) for digitally communicating client generated data between clients of the cable LAN." Afshary (EX1003), Abstract. Afshary's system uses a "low pass filter (LPF) 18" which prevents signals from the LAN "from getting back to the public

cable network" by "reflect[ing] cable LAN transmitted signals back into the network of the cable LAN." *Id.*, ¶¶ 14, 16. Similarly, Amit disclosed a technique in which "signals will typically propagate between the devices via reflections from other devices in the line." Amit (EX1006), 3:19–23. Mills, the final reference included in this Request, is cited to teach limitations related to equalization of reflected signals. Claim 10 is rendered obvious by Afshary and/or Amit, in combination with the teachings of Mills, as shown by the analysis presented in this request.

(ii) Prosecution History of the '249 Patent

The '249 Patent issued from U.S. Application No. 09/910,412, filed on July 21, 2001 (the "'412 Application"). The '412 Application claims priority to U.S. Provisional Patent Application No. 60/288,967, filed May 4, 2001.

In a first non-final office action, the examiner rejected original claims 1–18 as anticipated by Carhart (U.S. Patent No. 6,622,304) or as obvious over Carhart in combination with various additional references. EX1002, pp. 306–318. In response, the applicant amended some claims and canceled others, and argued that Carhart did not anticipate or render obvious the claimed subject matter. *Id.* at 293–303. The applicant argued that in Carhart's approach, "other devices in the same wiring branch as the transmitting device will not receive the transmitted signal" and that "signals do not reach all devices in the building wiring," stating that the "network interface device of applicant's invention is a two port device." *Id.* at 298. However, the challenged claim does not recite a requirement of a "two port device."

In a first final office action, the examiner maintained the rejections of the claims as anticipated by Carhart or rendered obvious by Carhart in combination with secondary references. EX1002, pp. 274–289. In response to the final office action, the applicant amended the claims consistent with an interview held with the examiner, and argued that the amended claims were not anticipated by or rendered obvious by Carhart. *Id.* at 256–263. Specifically, the applicant amended the claims to recite that terminal devices connected to the network interface device receive the reflected signal. *Id.* The applicant argued that Carhart's device "does not reflect the signal back to the wiring from which the signal was received." *Id.*

Subsequently, the examiner issued a second non-final office action, rejecting the claims as anticipated by Li (U.S. Patent No. 4,633,309) or as obvious over Li in combination with various additional references. *Id.* at 237–248. In response, the applicant further amended some claims,

and added new claims, including prosecution claim 29, which corresponds to challenged claim 10. *Id.* at 220–227. With respect to prosecution claim 29, the applicant argued that "[e]qualization is not taught by Li or Langlais" and thus alleged that claim 29 was allowable over the applied art. *Id.* at 226.

The examiner then issued a second final office action, again rejecting the claims. *Id.* at 196–211. Prosecution claim 29 was rejected over Li in view of additional references, including Manchester, Langlais, and Mukherjee. The examiner alleged that Mukherjee "teaches the terminal devices perform equalization on the received signal." *Id.* at 206.

The applicant then amended claim 29 again, changing the language to recite that the "reflected signals produce a multipath signal in the wiring branches that creates impairments to the performance of the communication channel" and that the claimed equalization "restores a flat frequency response to overcome the communication channel impairments caused by the multipath signals." *Id.* at 184–193. The applicant argued again that Li and Langlais did not teach equalization, and further, that "Mukherjee's system does not employ a signal reflector to enable device-to-device communication and does not address multipath caused by a signal reflector." *Id.* at 193.

The examiner then issued a third non-final office action, rejecting claim 29 over Kliger (U.S. Patent Application Publication No. 2002/0069417) combined with Wu and Mukherjee. *Id.* at 155–169. In response, the applicant responded (*id.* at 139–148) and further amended claim 29, changing the claimed "network interface device" to a "filter," removing the limitation regarding "multipath signals" and changing the "channel impairments caused by the multipath signals" to recite that the channel impairments were caused "by the reflected signals." *Id.* at 142–143. The applicant argued that none of the applied references taught or suggested "the missing element of a filter tuned to reflect signals back into the network from which they were transmitted." *Id.* at 145.

The examiner then issued a third final office action, which rejected claim 29 over Kliger and Mukherjee. *Id.* at 122–133. The applicant in response again argued that the applied references did not "teach or suggest the missing element of a filter [tuned] to reflect signals back into the network from which they were transmitted." *Id.* at 120.

In turn, the examiner issued a fourth non-final office action, maintaining the rejection of claim 29 over Kliger and Mukherjee. *Id.* at 89–101. The applicant responded (*id.* at 55–64) and amended claim 29 again, adding the limitation that the "rejected network signals do not pass

through the filter, but rather are reflected by the filter" (*id.* at 58) and argued this distinguished the claim over Kliger and Mukherjee.

The examiner found this amendment and reasoning persuasive, and issued a notice of allowance. *Id.* at 29–34. The reasons for allowance stated that the "prior art of record fails to reasonably show or suggest a filter located at the point of entry of a building tuned to reject network signals originating in the building such that the network signals originating in the building do not pass through the filter, but rather are reflected back into the building." *Id.* at 33.

However, this Request presents and applies new prior art with analysis that discloses or renders obvious every feature of claim 10, including these elements which allegedly rendered the claim allowable. Specifically, Afshary—the prior art cited in proposed rejection A1—was not considered by the examiner and teaches a filter which rejects network signals originating in the building, as does Amit. Thus, the prior art presented in this Request, along with the analysis presented by Mr. Lipoff (attached as Exhibit 1008), presents substantial new questions of patentability.

Requester therefore asks that an Order for Reexamination be issued and that the reexamination proceeding continue to reject and cancel claim 10 of the '249 Patent.

B. Level of Ordinary Skill in the Art

A person of ordinary skill in the art at and before the priority date of the '249 Patent ("POSITA") would have had a bachelor's degree in electrical engineering, or a related subject, and two to three years of work experience in the field of radio frequency systems (e.g., cable television systems). A lack of experience can be remedied with additional education (e.g., a Master's degree), and likewise, a lack of education can be remedied with additional work experience (e.g., 5–6 years). Lipoff (EX1008), ¶¶ 37–39.

C. Claim Construction

"During patent examination, the pending claims must be 'given their broadest reasonable interpretation consistent with the specification.'" MPEP § 2111. The '249 Patent has not yet

expired[1]; thus, the broadest reasonable interpretation standard applies.[2] MPEP § 2258. The present Request presents the following claim analysis in a manner that is consistent with the broadest reasonable interpretation consistent with the specification.

D. Listing of Prior Art Patents and Printed Publications

Reexamination of claim 10 of the '249 Patent[3] is requested in view of the following references:

Exhibit 1003 ("Afshary") U.S. Patent Application Publication No. 2006/0218593 to Amir S. Afshary et al., filed January 3, 2006, claiming priority to U.S. Patent Application No. 09/164,427 filed September 30, 1998, and published September 28, 2006, which is prior art at least under pre-AIA 35 U.S.C. § 102(e).

Exhibit 1004 ("Mills") U.S. Patent 6,795,450 to Andrew Mills et al., filed September 28, 2000, and issued September 21, 2004, which is prior art at least under pre-AIA 35 U.S.C. § 102(e).

Exhibit 1006 ("Amit") U.S. Patent No. 7,127,734 to Mati Amit, filed April 12, 2000, and issued October 24, 2006, which is prior art at least under pre-AIA 35 U.S.C. § 102(e).

---

[1] Based on the 816 days of patent term adjustment listed on the face of the '249 Patent, the estimated expiration date of the '249 Patent is October 15, 2023. *See* '249 Patent (EX1001), field (*).

[2] When the '249 Patent expires, the *Phillips* standard for claim construction will apply. *See In re CSB-System Int'l, Inc.*, 832 F.3d 1335, 1341 (Fed. Cir. 2016) ("When a patent expires during a reexamination proceeding, the PTO should thereafter apply the *Phillips* standard for claim construction."). Requester submits that, even if the claims were interpreted under the *Phillips* standard and the ordinary and customary meaning of each claim term were used, the claims would have been obvious over the analysis presented below.

[3] The '249 Patent issued from an application filed prior to the enactment of the America Invents Act ("AIA"). Thus, the pre-AIA statutory framework applies.

Afshary, Mills, and Amit were not cited or applied during the original prosecution of the '249 Patent. As demonstrated below, Afshary, Mills, and Amit present substantial new questions of patentability.

(i) Overview of Afshary

Afshary describes "a coaxial cable local area network (LAN) for digitally communicating client generated data between clients of the cable LAN." Afshary (EX1003), Abstract. Afshary's system uses a "cable LAN isolator such as LPF [low pass filter] 18" which "maintains security for the cable LAN" and does so by "restricting spurious signals or cable LAN signals to the premise of the user" and which will also "reflect cable LAN transmitted signals back into the network of the cable LAN." Afshary (EX1003), ¶¶ 15–16. With reference to Figure 2, reproduced below, Afshary explains that "[i]n the overall operation, a first client, such as PC 62, communicates digital data to a first cable LAN adapter 32 through client interface 66…the first cable LAN adapter 32 communicates the processed data to a second cable LAN adapter 32 through coaxial cable wire 24." Afshary (EX1003), ¶ 23.

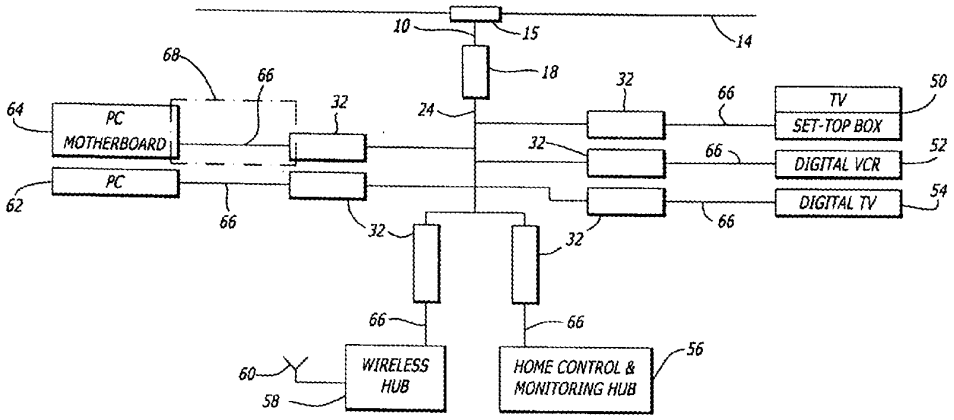


FIG. 2

Afshary (EX1003), Fig. 2

Afshary is analogous art to the '249 Patent. Lipoff (EX1008), ¶¶ 49–50. The field of endeavor of the '249 Patent is "broadband communication networks" and "network interface devices and network wiring." '249 Patent (EX1001), 1:14–16. Afshary "relates to a coaxial cable local area network (LAN) for digitally communicating client generated data between clients of the cable LAN." Afshary (EX1003), ¶ 7. Afshary is also reasonably pertinent to at least one problem

addressed by the '249 Patent. The '249 Patent purports to address at least the problem of "providing a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." '249 Patent (EX1001), 3:4–7. Afshary discloses "digitally communicating client generated data between clients of the cable LAN" and is thus reasonably pertinent to the problem of "providing a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." Afshary (EX1003), ¶ 7. Accordingly, Afshary is analogous art to the '249 Patent for this reason as well.

(ii) Overview of Amit

Amit discloses "the ability to use existing cable TV wires for home networking." Amit (EX1006), Abstract. Amit explains that it "provides a system and methods for communication between subscribers' devices over cable infrastructure designed to carry video signals, using pass band frequency bands, without transmission through a CATV headend device. Amit (EX1006), 2:34–38. Amit shows in Figure 2 "an example of a preferred embodiment" of its system, which includes a "[n]otch filter … that does not pass a certain RF range that is used by the home networking devices" and Amit further describes that "signals arriving to RF splitter [203] from the home units [204–207, 212] are partially reflected back to these home units [204–207]." *Id.* at 6:24–44.

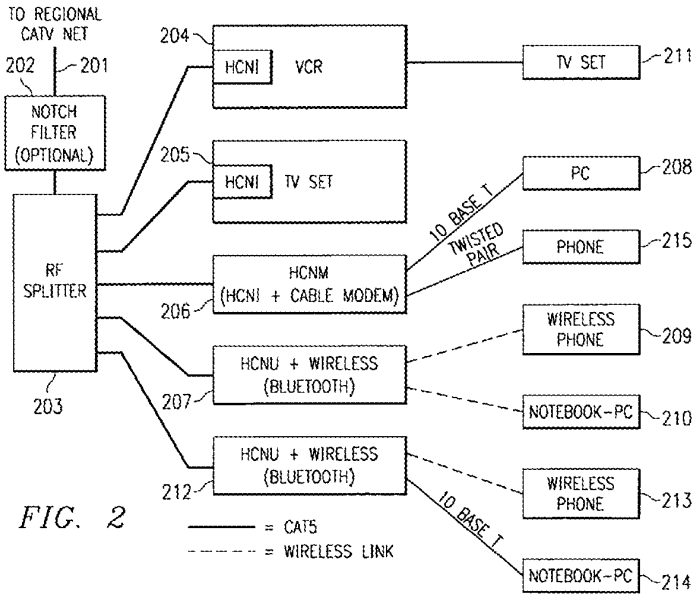


FIG. 2

Amit (EX1006), Fig. 2

Amit is analogous art to the '249 Patent. Lipoff (EX1008), ¶ 52. As detailed above, the field of endeavor of the '249 Patent is "broadband communication networks" and "network interface devices and network wiring." '249 Patent (EX1001), 1:14–16. Amit similarly describes using "cable TV wires for home networking." Amit (EX1006), Abstract. Thus, Amit is within the same field of endeavor. Amit is also reasonably pertinent to at least one problem addressed by the '249 Patent. The '249 Patent purports to address at least the problem of "providing a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." '249 Patent (EX1001), 3:4–7. Amit discloses "methods for communication between subscribers' devices over cable infrastructure designed to carry video signals." Amit (EX1006), 2:34–38. Thus, Amit is reasonably pertinent to at least one of the problems allegedly solved by the '249 Patent.

(iii) Overview of Mills

Mills relates to "computer network point to point data communications" in various implementations, including "Ethernet using coaxial." Mills (EX1004), 1:10–13. As pertinent to the analysis in this reexamination request, Mills teaches that "receivers use an equalizer to adjust for the characteristics of the incoming line." *Id.*, 6:22–34.

Mills is analogous art to the '249 Patent. Lipoff (EX1008), ¶ 54. As detailed above, the field of endeavor of the '249 Patent is "broadband communication networks" and "network interface devices and network wiring." '249 Patent (EX1001), 1:14–16. Mills describes techniques for "computer network point to point data communications" in various implementations, including "Ethernet using coaxial." Mills (EX1004), 1:10–13. Thus, Mills is within the same field of endeavor. Mills is also reasonably pertinent to at least one problem addressed by the '249 Patent. The '249 Patent purports to address the problem of "providing a suitable signal path for terminal-to-terminal communication in a coaxial cable wired building." '249 Patent (EX1001), 3:4–7. By describing techniques for point-to-point data communications using coaxial wiring, Mills is reasonably pertinent to at least one of the problems allegedly solved by the '249 Patent.

E. Afshary, Mills, and Amit Each Present Substantial New Questions of Patentability

As shown below, Requester submits that the prior art references Afshary, Mills, and Amit raise a "substantial question of patentability" because "the teaching of the (prior art) patents and printed publications is such that a reasonable examiner would consider the teaching to be important in deciding whether or not the claim is patentable." *See* MPEP § 2242 (emphasis in original). Further, the "same question of patentability as to the claim has not been decided by the Office in an earlier concluded examination or review of the patent" at least because none of the references were before the Office during the original prosecution of the '249 Patent. *See id.*; *id.* § 2216. Thus, as presented herein, each of Afshary, Mills, and Amit present a substantial new question of patentability.

The present Request proposes the following rejections based on Afshary, Mills, and Amit:

Proposed Rejection A1: Claim 10 is rendered obvious by Afshary and Mills under 35 U.S.C. § 103(a).

Proposed Rejection B1: Claim 10 is rendered obvious by Amit and Mills under 35 U.S.C. § 103(a).

(i) Afshary Presents Substantial New Questions of Patentability

As demonstrated in the proposed rejection A1 below, Afshary, when combined with the teachings of Mills, renders obvious claim 10 of the '249 Patent. Specifically, Afshary discloses or teaches element [10.1] that rendered claim 10 allowable because Afshary teaches the use of a filter that "**reflect[s] cable LAN transmitted signals back into the network of the cable LAN**." Afshary (EX1003), ¶ 16.

Afshary therefore presents a substantial new question of patentability, and a reasonable examiner would consider the reference important in determining whether claim 10 is patentable, because Afshary was not cited by the examiner. A detailed explanation of the pertinence and manner of applying Afshary to the claim for which reexamination is requested is set for in Section II, below.

(ii) Amit Presents Substantial New Questions of Patentability

As demonstrated in the proposed rejection B1 below, Amit, when combined with the teachings of Mills, renders obvious claim 10 of the '249 Patent. Specifically, Amit discloses or teaches element [10.1] that rendered claim 10 allowable because Amit teaches a "notch filter" and also teaches that "[s]ubscribers' devices may communicate directly (not via the headend) using RF signaling over the coax cable" using "signals" that will typically propagate between the devices **via reflections** from other devices in the line." Amit (EX1006), 3:19–23.

Amit therefore presents substantial new questions of patentability, and a reasonable examiner would consider the reference important in determining whether claim 10 is patentable, because Amit was not cited by the examiner. A detailed explanation of the pertinence and manner of applying Amit to the claim for which reexamination is requested is set forth in Section II below.

(iii) Mills Presents Substantial New Questions of Patentability

The majority of the limitations of the challenged claim are taught independently by Afshary and Amit. Mills is cited herein to teach one limitation of independent claim 10. Specifically, Mills teaches how "receivers use an equalizer to adjust for the characteristics of the incoming line. Various types of equalizers (e.g. adaptive, fixed, etc.) can be used to balance out the effect the characteristics of the media have on the incoming signal. For example, a twisted pair cable typically experiences an attenuation which is a function of its length and the frequency of interest. The equalizer will compensate for the attenuation by creating a frequency dependent gain. This

results in a frequency response that is as flat as possible, across the spectrum, for that cable length." Mills (EX1004), 6:22–32.

As demonstrated in the proposed rejections A1 and B1 below, Mills in combination with Afshary and Amit, renders obvious claim 10 of the '249 Patent. Mills therefore presents substantial new questions of patentability, and a reasonable examiner would consider the teachings of the reference important in determining whether claim 10 is patentable, because Mills was not cited by the examiner. A detailed explanation of the pertinence and manner of applying Mills to the claim for which reexamination is requested is set for in Section II, below.

II. DETAILED EXPLANATION OF THE PERTINENCE AND MANNER OF APPLYING THE PRIOR ART REFERENCES TO EVERY CLAIM FOR WHICH REEXAMINATION IS REQUESTED

A. Proposed Rejections of the Claim

The present request presents proposed rejections based on the references Afshary, Mills, and Amit.

Proposed rejections A1 and B1 are based on obviousness under 35 U.S.C. § 103(a). Requester notes that, even if there are minor differences between cited disclosures of the prior art and the claimed concepts, the claims are still obvious, as a POSITA would not have appreciated "some new synergy" or unexpected results from the limitations given the disclosures of the prior art and the general knowledge of a POSITA. *KSR Intern. Co. v. Teleflex Inc.*, 550 US 398, 417 (2007). When compared with the prior art described below and in light of the knowledge of a POSITA, any "differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains." 35 U.S.C. § 103.

The proposed rejections are listed below and above and are described in further detail in the claim chart that follows below.

(i) Proposed Rejection A1: Claim 10 is rendered obvious by Afshary in view of Mills under 35 U.S.C. § 103(a).

Claim 10[4]
[10.0] A broadband local area network for transmitting modulated signals using coaxial cable building wiring containing a plurality of branches comprising:
To the extent the preamble is a limitation of the claims, Afshary discloses it or at least renders it obvious. First, Afshary discloses a *local area network ... using coaxial cable building wiring*: "The invention relates to a **coaxial cable local area network (LAN)** for digitally communicating client generated data between clients of the cable LAN." Afshary, Abstract. Afshary also teaches that the local area network is a *broadband* local area network because its clients use a "broadband application specific integrated circuit (ASIC) 78. Afshary (EX1003), ¶ 30. Additionally, Afshary teaches *transmitting modulated signals*: "In the preferred embodiment, a signal generated by adapter 32 downstream of LPF 18 rapidly **transmits** data from one adapter to another adapter as a carrier **modulated digital signal**." Afshary (EX1003), ¶ 26. Afshary further teaches *building wiring containing a plurality of branches*. As shown in Figure 1, the cable LAN in Afshary contains a plurality of branches 24 (annotated in dashed boxes).

[4] Emphasis added throughout unless otherwise specified.

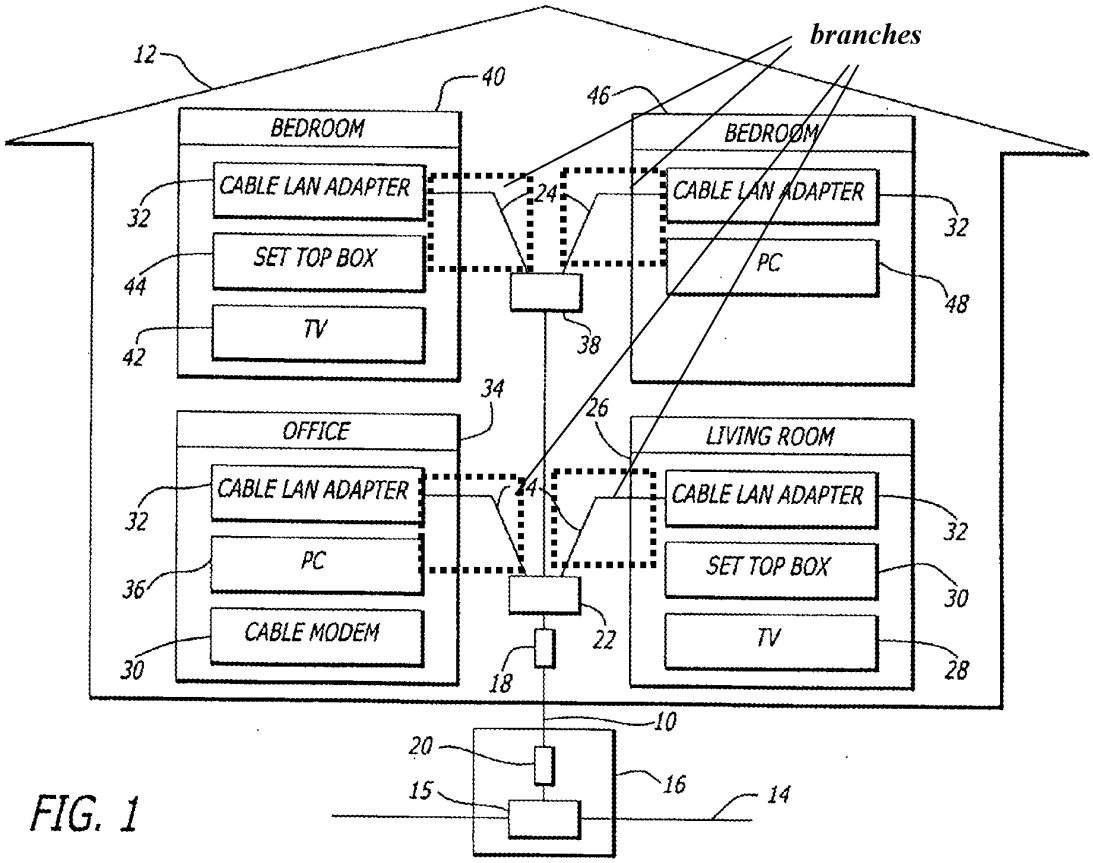


FIG. 1

Afshary (EX1003), Fig. 1 (annotated)

Likewise, Figure 2 of Afshary shows multiple branches 24 (annotated in dashed boxes):

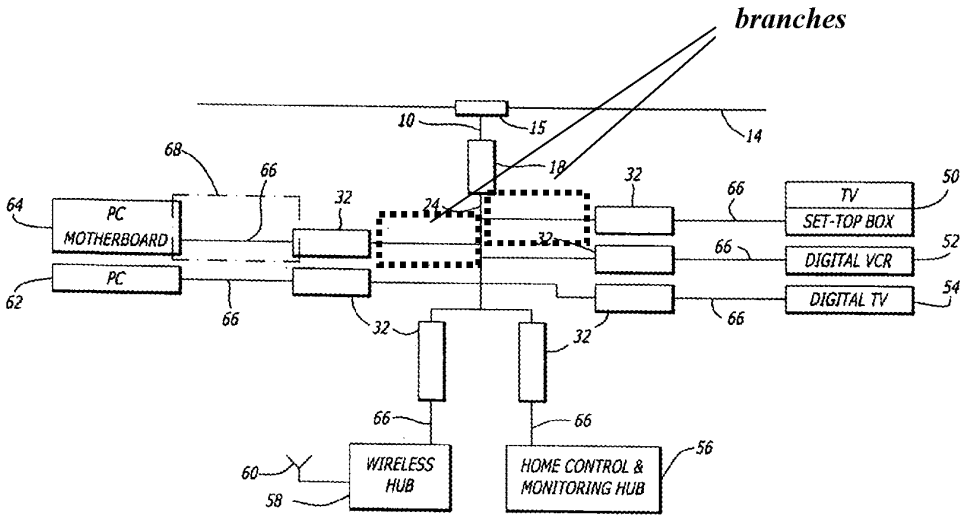


FIG. 2

Afshary (EX1003), Fig. 2 (annotated)

Accordingly, Afshary discloses, or at least renders obvious, the preamble of claim 10. Lipoff (EX1008), ¶¶ 57–63.

[10.1] a filter located at the point of entry of the building wiring that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring;

Afshary discloses, or at least renders obvious this limitation, because it teaches a low pass filter (LPF) 18, which is *a filter* as recited because the '249 Patent discloses that the filter "would typically be a low pass filter." '249 Patent (EX1001), 4:25–26. Accordingly, Afshary's LPF 18 is the same type of *filter* contemplated for use by the '249 Patent.

First, Afshary discloses *a filter located at the point of entry of the building wiring*:

> "**Near the point at which drop cable 10 enters home 12, low pass filter (LPF) 18 is installed by the user**, upstream of the in-home cable LAN network and downstream of any cable service company supplied low pass filter 20."

Afshary (EX1003), ¶ 14.

As shown in Figure 1, LPF 18 is *located at the point of entry of the building wiring*:

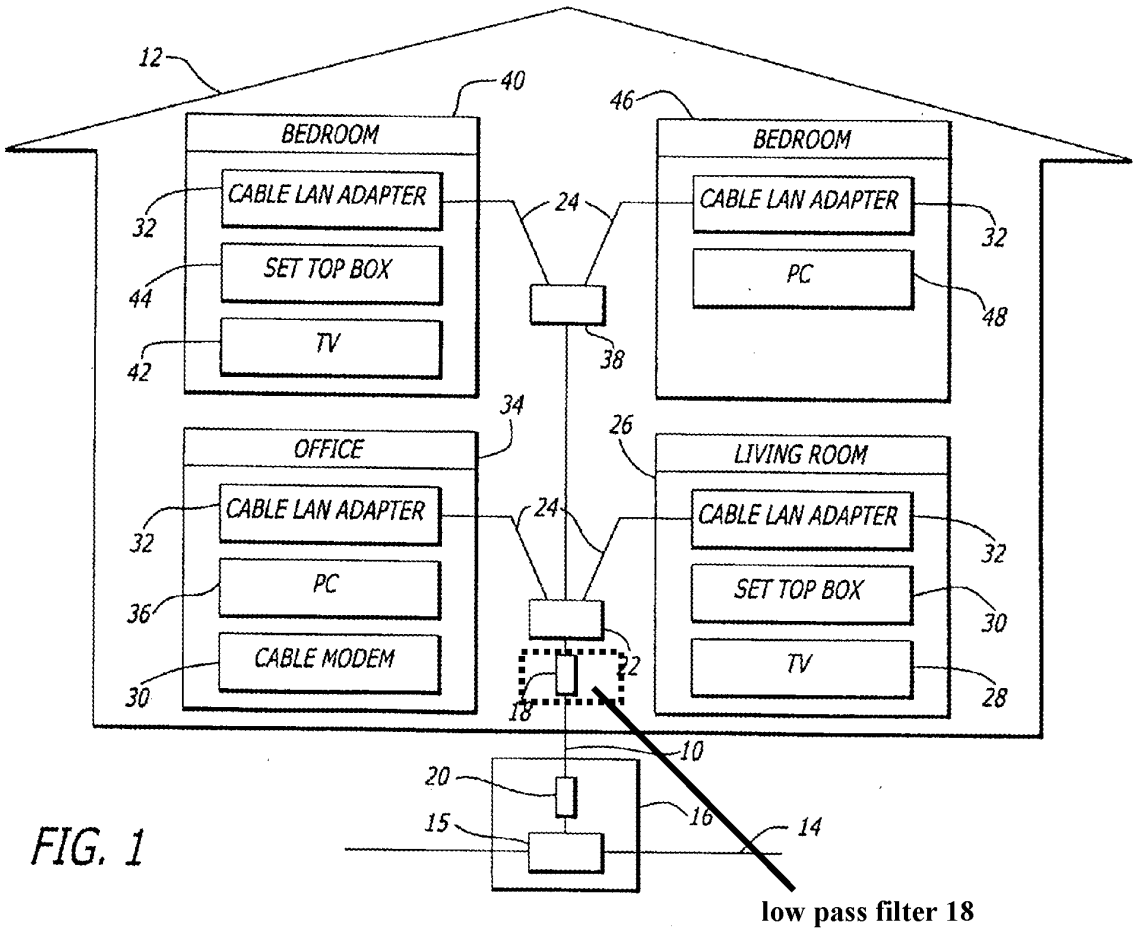


FIG. 1

Afshary (EX1003), Fig. 1 (annotated)

Second, Afshary discloses that the filter *rejects network signals originating in the building such that the rejected network signals do not pass through the filter*. Afshary explains:

> "By **restricting** spurious signals or **cable LAN signals to the premise of the user**, LPF 18 maintains security by **preventing such signals from getting back to the public cable network**."

Afshary (EX1003), ¶ 16.

> "LPF 18 maintains security for the cable LAN, works to improve the performance of the cable LAN, and **prevents signals generated within the cable LAN from interfering with cable service company operations**."

Afshary (EX1003), ¶ 15.

Because Afshary's low pass filter **restricts** cable LAN signals to the premise of the user and **prevents** cable LAN signals from getting back to the public cable network and interfering with cable service company operations, Afshary's low pass filter *rejects network signals originating in the building such that the rejected network signals do not pass through the filter*. Lipoff (EX1008), ¶¶ 68–73.

Afshary also explains that the cable LAN signals *are reflected by the filter back into all branches of the building wiring*:

> "LPF 18 will also **reflect cable LAN transmitted signals back into the network of the cable LAN**."

Afshary (EX1003), ¶ 16.

Afshary describes the cable LAN as the wiring branches within the home shown in Figure 1:

> "Near the point at which drop cable 10 enters home 12, low pass filter (LPF) 18 is installed by the user, upstream of the in-home cable LAN network and downstream of any cable service company supplied low pass filter 20."

Afshary (EX1003), ¶ 14.

Afshary also discloses that splitters, such as splitter 22 depicted in Figure 1, "permit more than one client to receive identical data by dividing the cable into two or more cable wires." In more detail, Afshary explains:

> "Coaxial cable splitters permit more than one client to receive identical data by dividing the cable into two or more cable wires. Thus, from the point at which drop cable 10 enters home 12, drop cable 10 is split by splitter 22 into different cable wires 24, each cable wire 24 being routed to different rooms in home 12."

Afshary (EX1003), ¶ 18.

Thus, because Afshary's low pass filter restricts cable LAN signals from interfering with cable service signals and reflects cable LAN signals back into the network of the cable LAN, and because data reflected by LPF 18 is split by splitter 22 and communicated to all clients coupled to the splitter, Afshary discloses, or at least renders obvious, that the signals *do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring* as recited.

Accordingly, Afshary's low pass filter 18 discloses, or at least renders obvious, *a filter located at the point of entry of the building wiring that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring* as recited. Lipoff (EX1008), ¶¶ 64–74.

[10.2] at least one signal splitter;

Afshary discloses *at least one signal splitter*:

> "Thus, where **splitter 22** is located close to LPF 18, the return loss characteristics of LPF 18 may be helpful in coupling the cable LAN signal power from one arm of splitter 22 to another arm of splitter 22."

Afshary (EX1003), ¶ 16. Afshary's splitter 22 is annotated by a dashed box below:

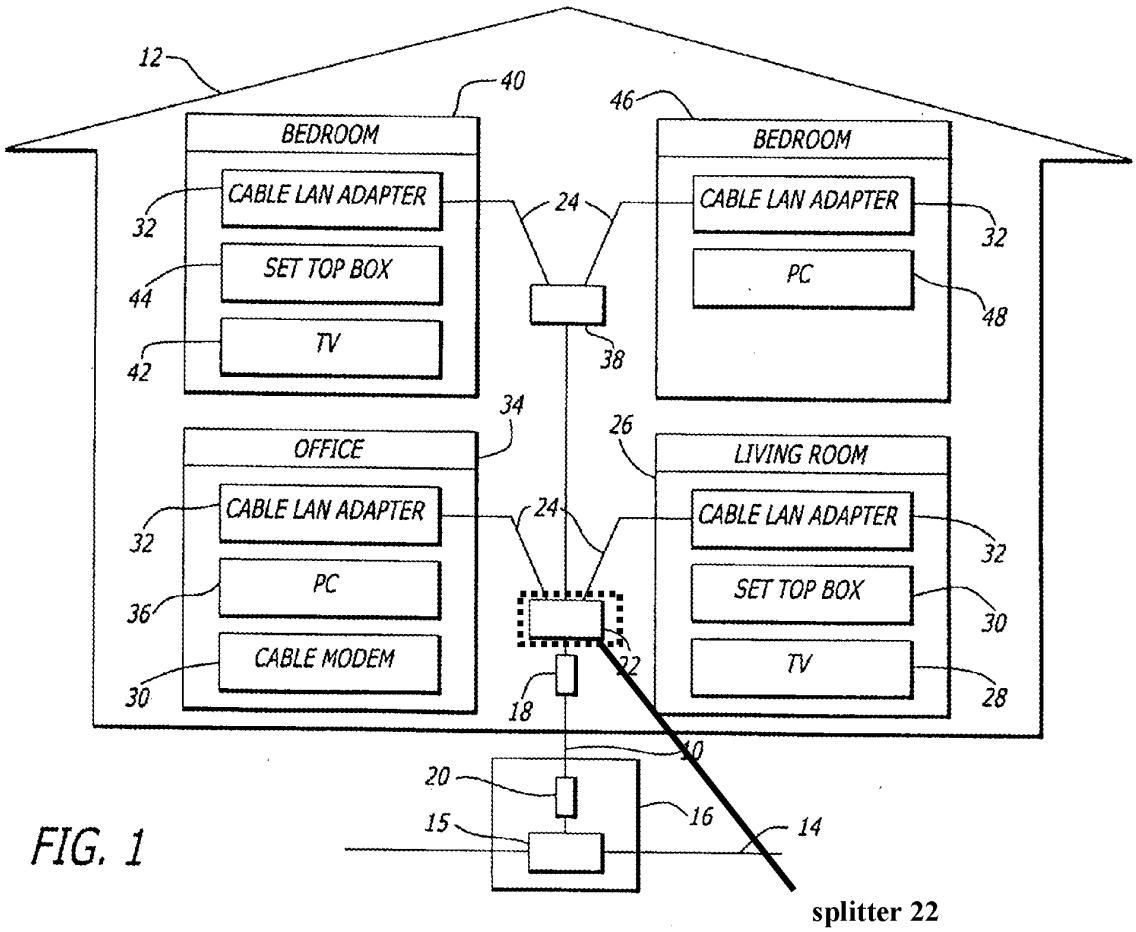


FIG. 1

Afshary (EX1003), Fig. 1 (annotated)

> "**Coaxial cable splitters** permit more than one client to receive identical data by dividing the cable into two or more cable wires. Thus, from the point at which drop cable 10 enters home 12, drop cable 10 is split by splitter 22 into different cable wires 24, each cable wire 24 being routed to different rooms in home 12."

Afshary (EX1003), ¶ 18.

Thus, Afshary's splitter 22 discloses, or at least renders obvious, *at least one signal splitter* as recited. Lipoff (EX1008), ¶¶ 75–76.

[10.3.1] a plurality of terminal devices connected to the wiring branches, each terminal device capable of communicating with other terminal devices the reflected signal path created by the filter,

Afshary discloses, or at least renders obvious, this limitation.

As shown in Figure 1, Afshary discloses *a plurality of terminal devices* such as multiple "cable LAN adapter 32" devices:

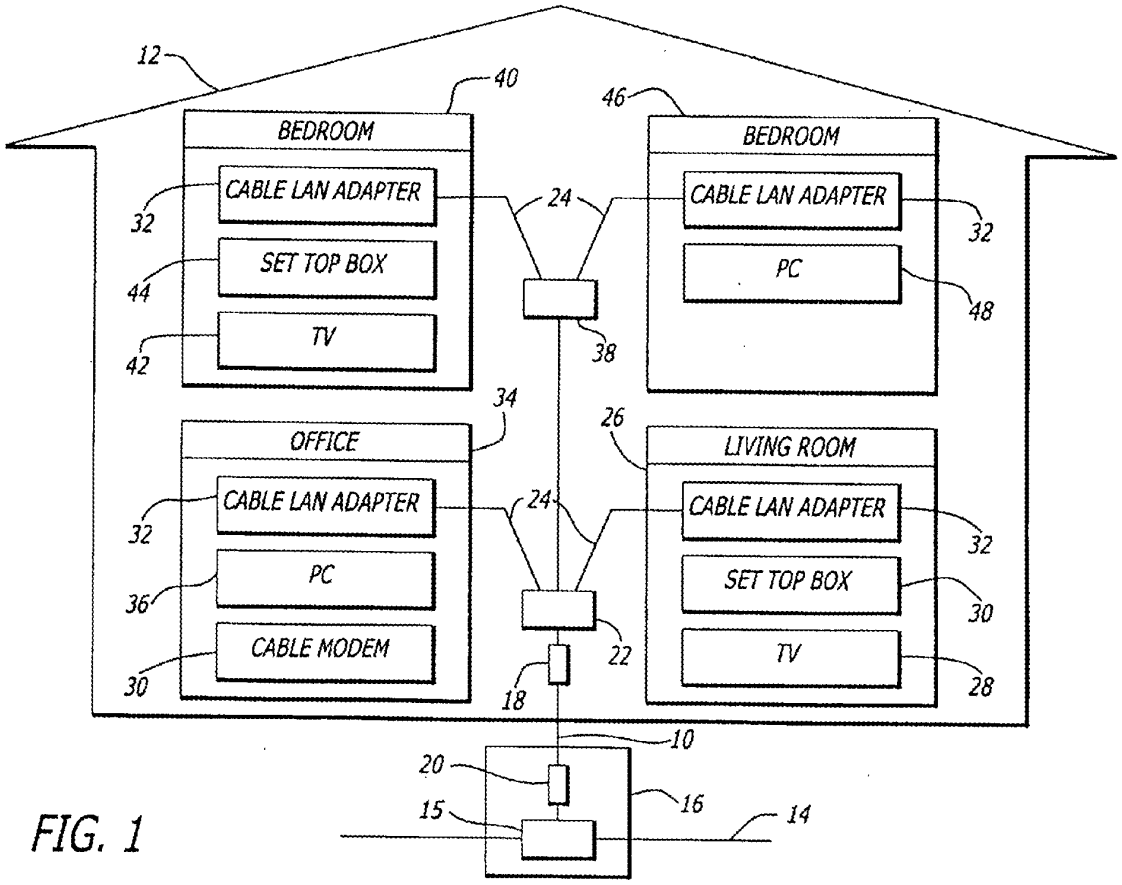


FIG. 1

Afshary (EX1003), Fig. 1

Afshary also explains:

> "Within living room 26 of FIG. 1 is living room television (TV) 28 having set top box (STB) 30. Set top box 30 includes boxes that provide interactive television through high speed internet data access. Coupled between cable wire 24 and set top

> box 30 is **cable LAN adapter 32**. Cable wire 24 is also routed to office 34. Within office 34 is office personal computer (PC) 36 having an internet gateway. The internet gateway may be personal computer 36 having high speed access to the internet, where the high speed access may be achieved through the shown a cable modem 30, as well as other connection such as asymmetric digital subscriber loop (ADSL) modem, an integrated service digital network (ISDN), a T1 line, and a multimedia cable network system (MCNS) cable modem. Coupled between cable wire 24 and personal computer 36 is **a second cable LAN adapter 32**."

Afshary (EX1003), ¶ 18.

> "Cable wire 24 is also routed to bedroom 40 and to bedroom 46. To communicate with **cable LAN adapter 32 in bedroom 40** and bedroom 46, cable wire 24 is further divided from splitter 22 by splitter 38 into two cable wires 24. Within bedroom 40 is bedroom TV 42 having set top box 44. Coupled between cable wire 24 and set top box 44 is a **third cable LAN adapter 32**. Within bedroom 46 is bedroom PC 48 coupled to **a fourth cable LAN adapter 32**. To complete the cable LAN network, cable wire 24 from splitter 38 is connected to cable LAN adapter 32 in bedroom 46. The number and arrangement of rooms and clients in home 12 is not particular to an embodiment of the invention. Home 12 may have different rooms, in different numbers and arrangements, each having different clients."

Afshary (EX1003), ¶ 19.

Afshary also explains, with reference to Figure 2, "[t]ypical clients of the cable LAN network." For example, Afshary explains:

> "Typical clients of the cable LAN network are shown in FIG. 2. These clients may include digital TV set top box 50, digital video cassette recorder (VCR) 52, digital TV 54, home control and monitoring hub 56, wireless hub 58 with bridge 60, personal computer 62, and personal computer motherboard 64. Bridge 60 of wireless hub 58 is capable of communicating with different wireless devices. For example, one such wireless device may be a remote-control device that can be used for multiple clients on the network such as PC's, set top boxes, and digital TV's.
>
> As shown in FIG. 2, client interface 66 couples cable LAN adapter 32 to a client. Adapter 32 serves to connect these clients to the network of cable wires 24. Client interface 66 may be any suitable computer interface, such as a Peripheral Component Interconnect (PCI) adapter card, Universal Serial Bus (USB), or buses meeting the Institute of Electronic and Electrical Engineering standard for a high

performance serial bus, IEEE 1394. Adapter 32 may also be coupled to a client by other techniques. For example, adapter 32 may be housed in a client of the cable-LAN network such as indicated by dashed lines 68 for PC motherboard 64."

Afshary (EX1003), ¶¶ 20–21.

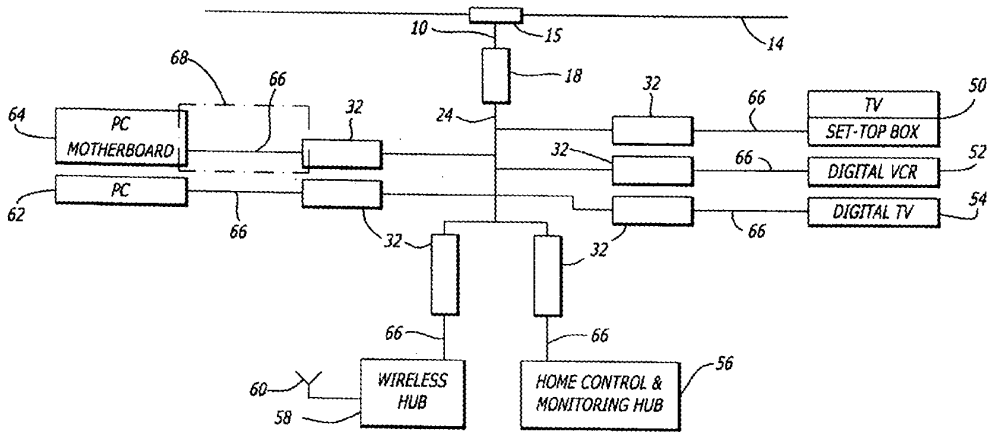


FIG. 2

Afshary (EX1003), Fig. 2

As also shown in Figures 1 and 2, the *terminal devices* are *connected to the wiring branches*, such as the "coaxial cable wire 24."

Afshary also discloses that *each terminal device* [is] *capable of communicating with other terminal devices the reflected signal path created by the filter*:

> "The overall operation can be understood from FIG. 2. In the overall operation, a **first client, such as PC 62, communicates digital data to a first cable LAN adapter 32** through client interface 66. After processing the data for transmission, **the first cable LAN adapter 32 communicates the processed data to a second cable LAN adapter 32 through coaxial cable wire 24**. On receiving the data, the second adapter 32 further processes the transmitted data to a form usable by a second client, such as digital TV 54, and transmits that data to second client digital TV 54 through client interface 66. First cable LAN adapter 32 may also communicate this same data to other adapters 32, that, in turn, may transmit the received data to their associated client."

Afshary (EX1003), ¶ 23.

> "LPF 18 will also reflect cable LAN transmitted signals back into the network of the cable LAN."

Afshary (EX1003), ¶ 16.

> "In the preferred embodiment, **a signal generated by adapter 32 downstream of LPF 18 rapidly transmits data from one adapter to another adapter** as a carrier modulated digital signal."

Afshary (EX1003), ¶ 26.

> "With **the signal transmitted from a first adapter 32, at least a designated second adapter 32 will receive the signal**. On receiving the transmitted data through cable wire 24, second adapter 32 reverses the process by converting the transmitted data into a form usable by a second client and transmitting that data to that client. From switch 132 of FIG. 4, LNA 118 focuses the signal so that down converter 114 may convert the signal to an intermediate frequency (IF) of around 44 MHz The analog signal is then converted to a digital signal in ADC 110."

Afshary (EX1003), ¶ 41.

> "As shown in FIG. 2, client interface 66 couples cable LAN adapter 32 to a client. Adapter 32 serves to connect these clients to the network of cable wires 24. Client interface 66 may be any suitable computer interface, such as a Peripheral Component Interconnect (PCI) adapter card, Universal Serial Bus (USB), or buses meeting the Institute of Electronic and Electrical Engineering standard for a high performance serial bus, IEEE 1394. Adapter 32 may also be coupled to a client by other techniques. For example, adapter 32 may be housed in a client of the cable-LAN network such as indicated by dashed lines 68 for PC motherboard 64."

Afshary (EX1003), ¶ 21.

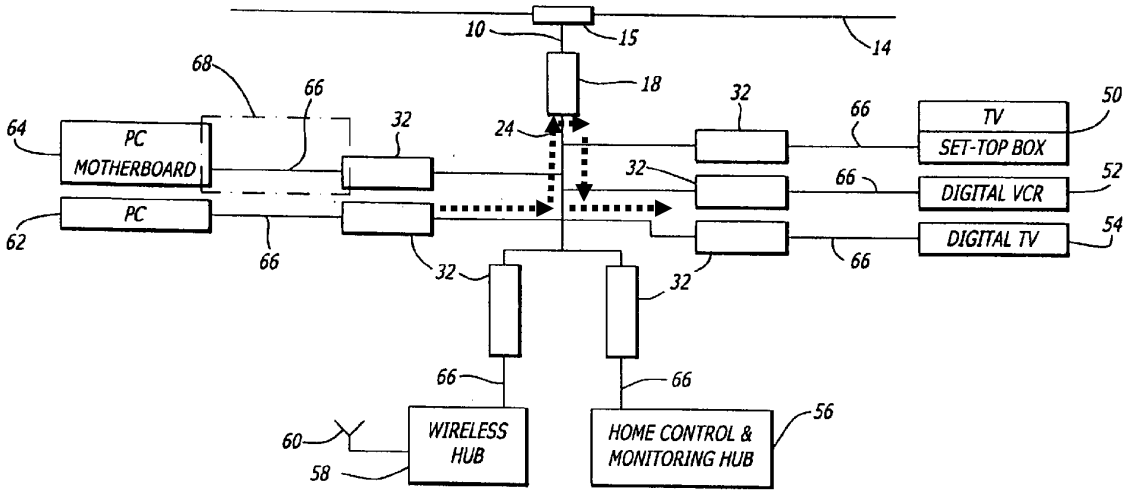


FIG. 2

Afshary (EX1003), Fig. 2 (annotated)

As shown in the dashed arrows annotating Figure 2, above, cable LAN adapter 32 is used by PC 62 to communicate over wiring 24. The signal from cable LAN adapter 32 is transmitted to the LPF 18, which in turn reflects the signal back into the LAN, where it is received by the second cable LAN adapter 32 coupled to digital TV 54. Lipoff (EX1008), ¶ 83.

By describing that the cable LAN adapters 32 communicate with each other through coaxial cable wiring, and by describing that the low pass filter reflects cable LAN signals into the cable LAN network, Afshary discloses, or at least renders obvious, that *each terminal device* [is] *capable of communicating with other terminal devices the reflected signal path created by the filter* as recited. Lipoff (EX1008), ¶¶ 77–84.

[10.3.2] wherein the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals.

Afshary is silent regarding *the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals*. Mills, however, teaches this limitation. And in the combined system of Afshary and Mills further described below, the combination discloses, or at least renders obvious, this limitation.

Mills relates to "computer network point to point data communications," and teaches that its invention "can be applied to … RF networks" and "appropriate media such as coax cable." Mills (EX1004), 1:10–13; 12:29–39. Mills discloses techniques performed in a receiver, such as a "network interface card" (Mills (EX1004), 3:22–25), which a POSITA would have recognized as a *terminal device* consistent with the '249 Patent's "LAN modem 270" coupled to a "LAN device 280" such as a PC. '249 Patent (EX1001), 4:8–13; Lipoff (EX1008), ¶¶ 86–90.

Mills discloses:

> "Additionally, to assist the PLL, most **receivers use an equalizer to adjust for the characteristics of the incoming line**. Various types of equalizers (e.g. adaptive, fixed, etc.) can be used to balance out the effect the characteristics of the media have on the incoming signal. For example, a twisted pair cable typically experiences an attenuation which is a function of its length **and the frequency of interest**. The equalizer will compensate for the attenuation by creating a frequency dependant [sic] gain. **This results in a frequency response that is as flat as possible, across the spectrum, for that cable length**."

Mills (EX1004), 6:22–32.

Mills further discloses:

> "Similarly, in an embodiment, an adaptive receiver PHY equalizer is designed to remember the input characteristics of the link, as last determined. For example, storage of the equalizer coefficients, which contain information that maps the input characteristics, will enable the receiver to quickly adapt to the received signal."

Mills (EX1004), 23:41–46.

Thus, Mills discloses, or at least renders obvious, that receivers (*terminal devices*) use an equalizer to adjust for characteristics of the incoming line (*perform equalization on the received signal*) that results in a frequency response that is as flat as possible (*that restores a flat frequency response*) due to characteristics of the incoming line such as the length of the cable and frequency of interest (*to overcome communication channel impairments*)[5]. Mills (EX1004), 6:22–32, 23:41–46.

[5] The claim language *to overcome communication channel impairments caused by the reflected signals* is nothing more than an intended use of the recited equalization, and thus, does not confer

The '249 Patent, for example, explains that a "reflection anywhere in the wiring produces a multipath signal in some or all wiring branches that creates inter-symbol interference (ISI)….ISI will degrade the bit error rate (BER) performance of the communication channel. The effects of ISI can be overcome by applying modulation techniques or receiver processing techniques. An adaptive equalizer in the terminal device creates a filter response that restores a flat frequency response impaired by the multipath signal." '249 Patent (EX1001), 5:64–6:13. The '249 Patent also explains that it creates reflections by "introducing any impairment into an element, for example **a cable**, component, or connector…." *Id.* at 4:63–65.

Because Mills teaches using equalizers to "balance out the effect the characteristics of **the media**" (i.e., the cable), it thus teaches overcoming *communication channel impairments* as recited. Further, it was known at the time of the '249 Patent that performing equalization in a receiver would overcome inter-symbol interference (ISI) (the impairment that the '249 Patent seeks to solve by equalization), and thus, a POSITA would have recognized Mills' equalization to *overcome communication channel impairments* as recited. Lipoff (EX1008), ¶¶ 91–93 (*citing, e.g.*, Labat (EX1009), 1:4–19 ("present invention relates to an equalizer circuit (or 'equalizer') for receivers in digital communications systems…Equalization consists essentially in removing as much intersymbol interference (ISI) as possible….This can result from…a phenomenon of multi-path propagation."); Shin (EX1014), pp. 1–2 (describing a downstream unit (i.e., receiver) that includes a DFE equalizer "to eliminate intersymbol interference (ISI)"); Kerpez (EX1011), p. 141 (stating that "[i]f there is no equalizer, then the distortion engendered by a long-delay echo will become additive noise that increases the BER" teaching that performing equalization improves bit error rate, consistent with disclosure of the '249 Patent); Dehgan (EX1010), 7:6–11 (describing an "adaptive equalizer that compensates for Inter-Symbol Interference due to the characteristics of channel 16 and receiver 14.").

---

patentable weight to claim 10. *See* MPEP 2114 ("[A]pparatus claims cover what a device *is,* not what a device *does*." *Hewlett-Packard Co. v. Bausch & Lomb Inc.,* 909 F.2d 1464, 1469, 15 USPQ2d 1525, 1528 (Fed. Cir. 1990) (emphasis in original). A claim containing a "'recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus' if the prior art apparatus teaches all the structural limitations of the claim. *Ex parte Masham,* 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987).") Here, this claim language merely recites "the manner in which a claimed apparatus is intended to be employed" and thus does not differentiate claim 10 from the combination of Afshary and Mills, which teaches all the structural limitations of the claim.

While Mills may not explicitly disclose that these impairments are *caused by the reflected signals*, to the extent this language is given patentable weight, this would have been obvious in the combination with Afshary, as Afshary's signals that are received by the terminal devices are *reflected signals*; thus, applying Mills' technique to Afshary would result in overcoming communication channel impairments *caused by the reflected signals* as recited. Lipoff (EX1008), ¶¶ 94–95.

Thus, the combined teachings of Afshary and Mills renders obvious that *terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments*. Lipoff (EX1008), ¶¶ 85–96.

A POSITA would have been motivated to combine the teachings of Afshary and Mills for multiple reasons.

First, combining the teachings would have been no more than combining prior art elements according to known methods to yield predictable results. Together, Afshary and Mills teach each and every limitation recited in claim 10. A POSITA would have been motivated to combine Mills' teaching of a receiver that performs equalization with Afshary's teachings of receivers, to adjust for characteristics of the incoming line as Mills discloses, which a POSITA would have seen as an advantage, as doing so compensates for attenuation (i.e., loss) by creating a gain. Thus, a POSITA would have been motivated to combine this teaching of Mills with Afshary. A POSITA would have also recognized a reasonable expectation of success in the combination, as modifying Afshary's receivers in accordance with Mills teachings (to the extent Afshary's receivers did not have an equalizer) would have been straightforward to a POSITA having the requisite skill in the art. For example, because Mills discloses that "most receivers use an equalizer," and because equalizers in receivers were well-known at the time of the '249 Patent (as detailed in Labat (EX1009) and Shin (EX1014), discussed above) a POSITA would have recognized a reasonable expectation of success in adding an equalizer to the terminal devices of Afshary (e.g., the cable LAN adapters), as doing so would have required (at most) only a small amount of additional circuitry that was well-known to a POSITA at the time. Lipoff (EX1008), ¶ 98.

Additionally, the combined teachings would have represented nothing more than the use of a known technique (Mills' teachings of performing equalization on an incoming signal at a receiver) to improve Afshary's similar methods in the same way, i.e., to adjust for the characteristics of the incoming line. MPEP 2143I. As detailed above, a POSITA would have been motivated to combine Mills' teaching of a receiver that performs equalization with Afshary's teachings of receivers, to adjust for characteristics of the incoming line as Mills discloses, which a POSITA would have seen as an advantage, as doing so compensates for attenuation (i.e., loss) by creating a gain. Thus, a POSITA would have been motivated to combine this teaching of Mills with

Afshary. A POSITA would have also recognized a reasonable expectation of success in the combination, as modifying Afshary's receivers in accordance with Mills teachings would have been straightforward to a POSITA having the requisite skill in the art. Lipoff (EX1008), ¶ 99.

(ii) Proposed Rejection B1: Claim 10 is obvious over Amit in view of Mills under 35 U.S.C. § 103(a).

U.S. Patent No. 7,594,249	Amit/Mills
Claim 10	

[10.0] A broadband local area network for transmitting modulated signals using coaxial cable building wiring containing a plurality of branches comprising:

To the extent the preamble is a limitation of the claims, Amit discloses it or at least renders it obvious.

First, Amit discloses a *broadband local area network for transmitting modulated signals using coaxial cable building wiring*:

> "In the prior art, **coaxial cables have been used for local area networks (LAN)** and for analog communications. The system and method of the present invention is designed for cable networks that carry video or other information from a headend or an antenna, and thus it is different from prior art LAN over coaxial cables. Furthermore, **the method employs a new digital modulation scheme** based on pass-band RF signaling, which is fundamentally different than prior art LAN and analog modulation over coaxial cables."

Amit (EX1006), 3:1–9.

> "FIG. 2 shows an example of a preferred embodiment of **the home network** method and system connected to a regional CATV plant;"

Amit (EX1006), 5:22–24.

> "FIG. 16 shows building wiring;"

Amit (EX1006), 5:40.

U.S. Patent No. 7,594,249	Amit/Mills

> "We note that the method and system will still be capable to perform home networking if the **home coaxial wiring** is not connected to a regional CATV plant [201], but connected to TV antenna, or even disconnected."

Amit (EX1006), 7:5–8.

Amit also discloses the *building wiring containing a plurality of branches*:

> "The **cable network can be divided to 'branches' because the tree structure supplies attenuation between its branches**. The attenuation is granted by the coaxial cables and by components that include filters. Some of the splitters also provide good isolation between the sub networks that are connected to these components."

Amit (EX1006), 9:36–42.

U.S. Patent No. 7,594,249	Amit/Mills

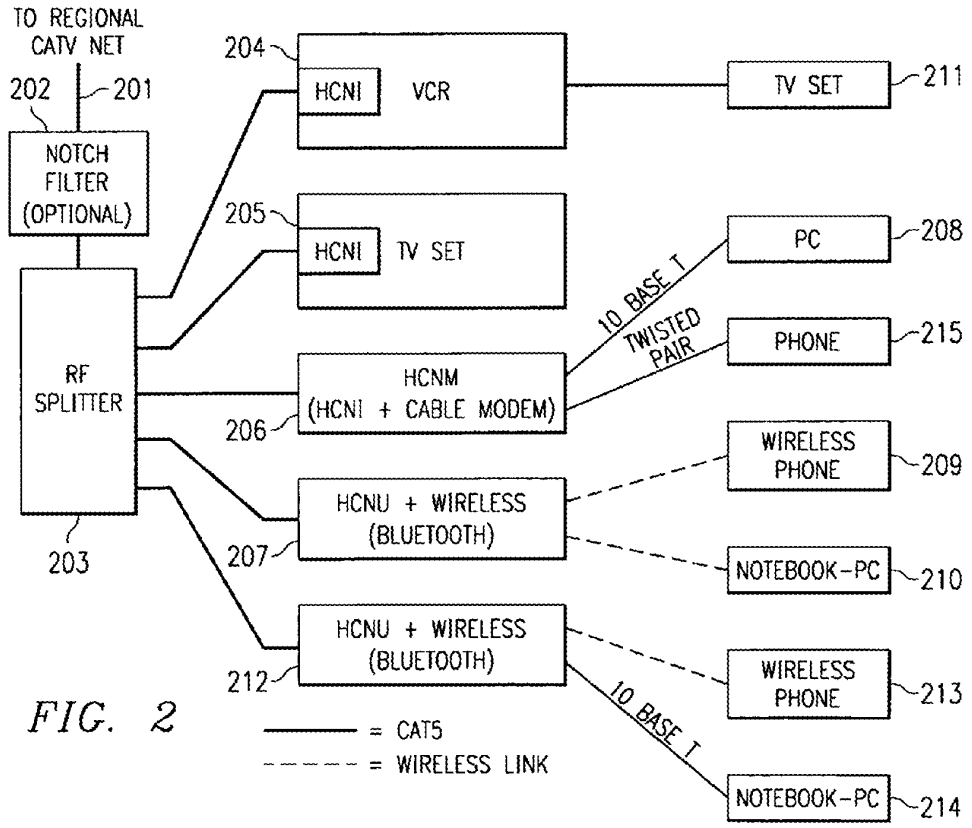


FIG. 2

Amit (EX1006), Fig. 2

Thus, Amit discloses, or at least renders obvious, the preamble of claim 10. Lipoff (EX1008), ¶¶ 101–104.

[10.1] a filter located at the point of entry of the building wiring that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring;

Amit discloses *a filter located at the point of entry of the building that rejects network signals originating in the building wiring such that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring.*

U.S. Patent No. 7,594,249	Amit/Mills

First, Amit discloses *a filter located at the point of entry of the building wiring*. As shown in Figure 2, Amit discloses a **notch filter** 202.

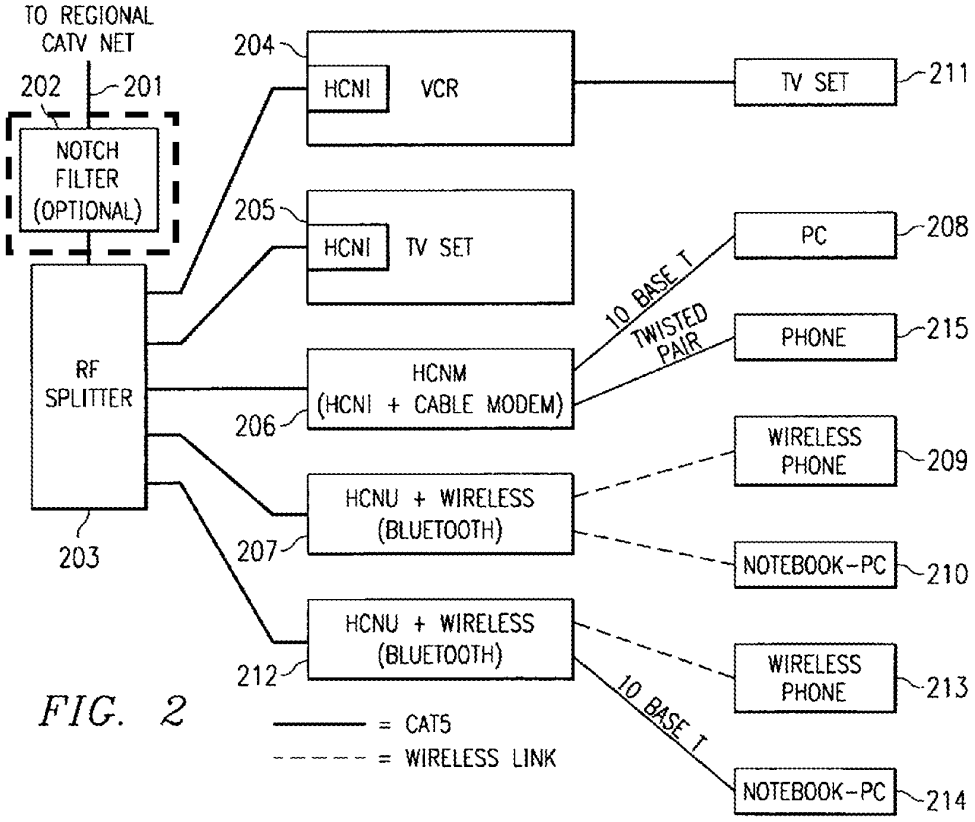


FIG. 2

Amit (EX1006), Fig. 2 (annotated)

The '249 Patent explains that, in one embodiment, "the filter is a series **notch filter**" and thus, Amit's notch filter is consistent with the examples disclosed in the '249 Patent. '249 Patent (EX1001), 5:40–41.

Amit discloses that the notch filter 202 *rejects network signals originating in the building wiring*:

> "**Notch filter** [202], is a **band reject filter that does not pass a certain RF range** that is used by the home networking devices [204–207, 212]."

Amit (EX1006), 6:29–31.

U.S. Patent No. 7,594,249	Amit/Mills

> "High reflection
>
> The **reflection from the notch filter** is in the power of the signal or it might be higher. When this reflection is higher than the signal we can use this reflection as our main signal."

Amit (EX1006), 14:1–6.

Amit further discloses *that the rejected network signals do not pass through the filter, but rather are reflected by the filter back into all branches of the building wiring*:

> "1. Subscribers' devices may communicate directly (not via the headend) using RF signaling over the coax cable. These **signals will typically propagate between the devices via reflections from other devices in the line**, e.g. splitters or amplifiers in the line."

Amit (EX1006), 3:15–23.

> "RF splitter [203] splits the signal coming from and to the regional CATV plant [201], to the signals coming to and from units [204–207, 212] respectively. The **signals** arriving to RF splitter [203] from the home units [204–207, 212] **are partially reflected back** to these home units [204–207]."

Amit (EX1006), 6:36–41.

Based on the configuration shown in Figure 2 of Amit, Amit teaches that, when signals arrive to the RF splitter from the home units, those signals from the home units are reflected by the notch filter and then subsequently split by RF splitter to the units 204-207 and 212. Lipoff (EX1008), ¶ 110.

A POSITA would have interpreted Amit's teachings as depicted in the following visual example, in which signals originating from the HCNM 206 (i.e., one of Amit's units 204-207, depicted by the thinner dashed lines terminating in an arrow) are reflected by notch filter 202, and then after being reflected by notch filter 202, are split by RF splitter 203 and communicated to all of units 204-207 and 212 (depicted by the thicker dashed lines terminating in an arrow). Lipoff (EX1008), ¶¶ 105–111.

U.S. Patent No. 7,594,249	Amit/Mills

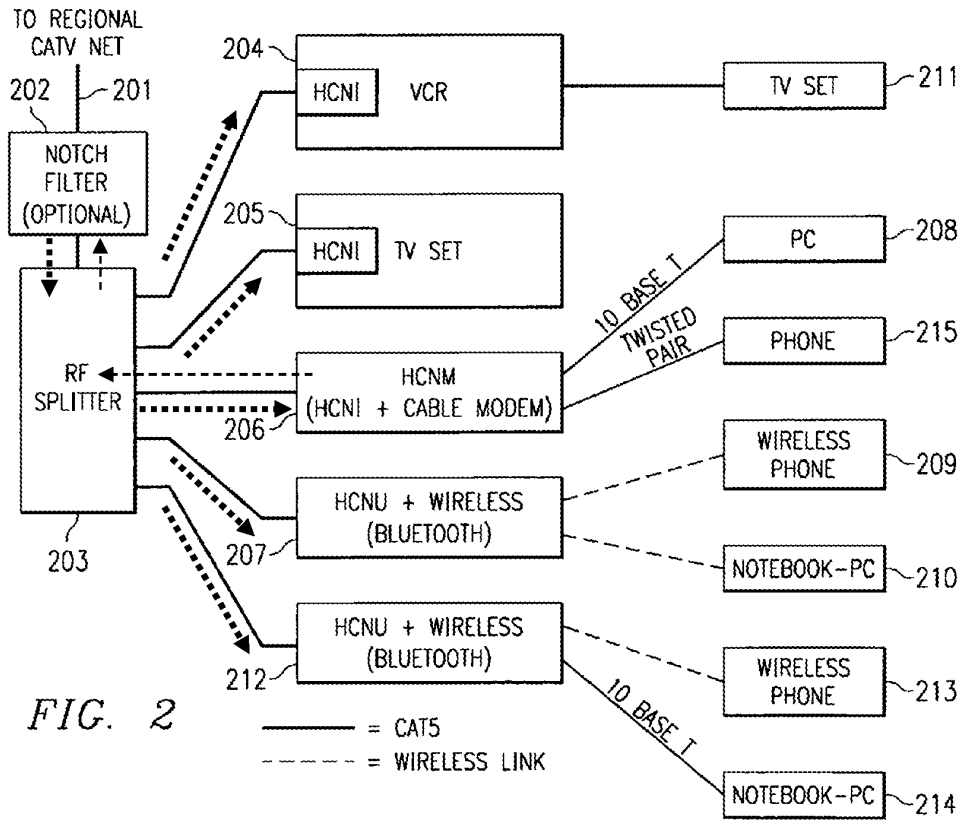


FIG. 2

Amit (EX1006), Fig. 2 (annotated)

Amit further discloses:

> "8. In a particular embodiment of the present invention, the splitter at the input to the user premises is replaced by a special splitter device that supplies higher quality home networking capabilities, or **a filter is connected to the splitter**. A passive filter connected to the splitter insures [sic] that the home networking signals in a specific home will not interfere with or be interfered by other home networks. This passive filter provides a "single home" operational mode that allows for low cost equipment and frequency re-use. A home network splitter that supplies less isolation between the home drops and includes the filter inside is also provided."

U.S. Patent No. 7,594,249	Amit/Mills
Amit (EX1006), 4:30–39. "The notch filter in the entrance of the home is a one of the basic elements in the home network design. If this notch filter exists in the HomeCN is disconnected from the regional cable network, therefore its' design is more simple (single home network)." Amit (EX1006), 7:15–19. Thus, Amit teaches that, in one embodiment, the notch *filter* is connected to the splitter to achieve a home networking environment using propagation of the signals by reflection. Lipoff (EX1008), ¶¶ 112–113. Thus, Amit's notch filter discloses, or at least renders obvious, this limitation. Lipoff (EX1008), ¶¶ 105–114.	
[10.2] at least one signal splitter;	
Amit discloses *at least one signal splitter*: "**RF splitter [203] splits the signal** coming from and to the regional CATV plant [201], to the signals coming to and from units [204–207, 212] respectively. The **signals** arriving to RF splitter [203] from the home units [204–207, 212] are partially reflected back to these home units [204–207]." Amit (EX1006), 6:36–41. Thus, Amit's RF splitter discloses, or at least renders obvious, *at least one signal splitter* as recited. Lipoff (EX1008), ¶¶ 115–116.	
[10.3.1] a plurality of terminal devices connected to the wiring branches, each terminal device capable of communicating with other terminal devices the reflected signal path created by the filter,	
Amit discloses *a plurality of terminal devices connected to the wiring branches, each terminal device capable of communicating with other terminal devices the reflected signal path created by the filter*.	

U.S. Patent No. 7,594,249	Amit/Mills

The '249 Patent explains that "terminals … can include cable converter boxes, televisions, and cable modems" ('249 Patent (EX1001), 1:27–31) and one example of a "terminal device" is "LAN modem 270" ('249 Patent (EX1001), 3:64–4:2). The LAN modem 270 terminal device in the '249 Patent is shown as coupled to LAN device 280 which "can be, for example, a personal computer (PC)." *See* '249 Patent (EX1001), Fig. 2, 4:8–11.

First, Amit discloses *a plurality of terminal devices connected to the wiring branches*:

> "The signals arriving to RF splitter [203] from the **home units [204–207, 212] are partially reflected back to these home units [204–207]**. It may be recommended to use splitters that deliberately have high reflection levels (although we believe that the method and system can operate with typical commercial splitters). **The Video Cassette Recorder (VCR) [204] and TV set [205] include Home Cable Networking Interface (HCNI) devices. The Personal Computer (PC) [208] is connected to a Home Networking Cable Modem (HNCM) device [206] (that supplies the Home Networking functionality and the Cable Modem functionality)**. The HCNM is also connected to a phone [215] and supplies the VoIP functionality. A PC that includes HCNI can be connected directly to the HCN. The HCNU+wireless units [207, 212] are connected to the CATV and has a wireless output (e.g. Bluetooth, HomeRF or infra-red) which connects to devices within the vicinity of the device [207], such as wireless telephone unit [209, 213], and a notebook computer [210]). The HCNU devices are capable of transmitting and receiving digital communications signals between them. These **signals propagate in the CATV wires and are reflected by the RF splitter** [203]. The HCNM device is further capable of operating as a DOCSIS cable modem and communicating with a headend of a regional CATV plant [201]. The HNCI's, the HCNU's and the HNCM use Home Cable Network Protocol HCNP."

Amit (EX1006), 6:39–64.

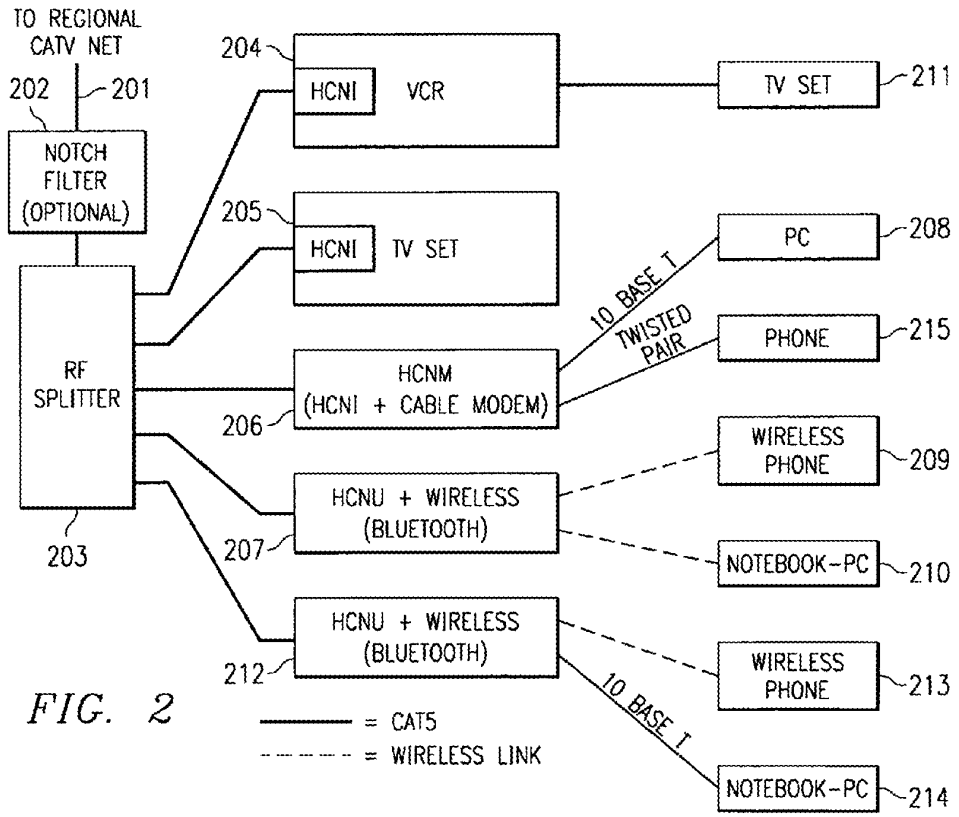


FIG. 2

Amit (EX1006), Fig. 2 (annotated)

Consistent with the '249 Patent's description of televisions as terminals discussed above, Amit's "TV set [205]" teaches a *terminal device*[]. Similarly, consistent with the '249 Patent's description of "cable modems," and "LAN modem 270" coupled to LAN device 280 (a PC) as terminal devices, Amit's HCNM 206, which "supplies the Home Networking functionality" (i.e., LAN functionality) and "Cable Modem functionality" also teaches a *terminal device*[]. Thus, Amit teaches *a plurality of terminal devices* as recited. Lipoff (EX1008), ¶¶ 118–120.

Second, the above disclosure also demonstrates that Amit's terminal devices are *capable of communicating with other terminal devices the reflected signal path created by the filter*:

> "The signals arriving to RF splitter [203] from the **home units [204–207, 212] are partially reflected back to these home units [204–207]**. It may be recommended to use splitters that deliberately have high reflection levels (although we believe that the method and system can operate with typical commercial splitters). **The Video Cassette Recorder (VCR) [204] and TV set [205] include Home Cable**

U.S. Patent No. 7,594,249	Amit/Mills

> **Networking Interface (HCNI) devices. The Personal Computer (PC) [208] is connected to a Home Networking Cable Modem (HNCM) device [206] (that supplies the Home Networking functionality and the Cable Modem functionality)**. …. **The HCNU devices are capable of transmitting and receiving digital communications signals between them. These signals propagate in the CATV wires and are reflected by the RF splitter [203]**. The HCNM device is further capable of operating as a DOCSIS cable modem and communicating with a headend of a regional CATV plant [201]. The HNCI's, the HCNU's and the HNCM use Home Cable Network Protocol HCNP."

Amit (EX1006), 6:39–64.

In one embodiment of Amit, the splitter and notch filter are integrated, such that the *reflected signal path* is *created by the filter* as recited:

> "To use the Single Home operation mode that simplifies the equipment, a notch filter should be added. This filter can be added in the following points:
>
> Adding a filter at the flat/single user home entrance.
>
> The advantage of this method is the ability of the end user to add the filter by himself.
>
> Replace the house basement splitter that split the signals between the flats to a special splitter.
>
> The advantage of this method is the ability of the MSO to **change a single splitter to a special splitter that includes internal filter**. This splitter enables more effective usage of the home networking for some flats (homes)."

Amit (EX1006), 13:31–43.

Thus, Amit discloses, or at least renders obvious, this limitation. Lipoff (EX1008), ¶¶ 117–123.

[10.3.2] wherein the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals.

U.S. Patent No. 7,594,249	Amit/Mills

Amit is silent regarding *the terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments caused by the reflected signals*. Mills, however, teaches this limitation. And in the combined system of Amit and Mills further described below, the combination discloses, or at least renders obvious, this limitation.

Mills relates to "computer network point to point data communications," and teaches that its invention "can be applied to … RF networks" and "appropriate media such as coax cable." Mills (EX1004), 1:10–13; 12:29–39. Mills discloses techniques performed in a receiver, such as a "network interface card" (Mills (EX1004), 3:22–25), which a POSITA would have recognized as a *terminal device* consistent with the '249 Patent's "LAN modem 270" coupled to a "LAN device 280" such as a PC. '249 Patent (EX1001), 4:8–13; Lipoff (EX1008), ¶¶ 125–129.

Mills discloses:

> "Additionally, to assist the PLL, most **receivers use an equalizer to adjust for the characteristics of the incoming line**. Various types of equalizers (e.g. adaptive, fixed, etc.) can be used to balance out the effect the characteristics of the media have on the incoming signal. For example, a twisted pair cable typically experiences an attenuation which is a function of its length **and the frequency of interest**. The equalizer will compensate for the attenuation by creating a frequency dependant [sic] gain. **This results in a frequency response that is as flat as possible, across the spectrum, for that cable length**."

Mills (EX1004), 6:22–32.

Mills further discloses:

> "Similarly, in an embodiment, an adaptive receiver PHY equalizer is designed to remember the input characteristics of the link, as last determined. For example, storage of the equalizer coefficients, which contain information that maps the input characteristics, will enable the receiver to quickly adapt to the received signal."

Mills (EX1004), 23:41–46.

Thus, Mills discloses, or at least renders obvious, that receivers (*terminal devices*) use an equalizer to adjust for characteristics of the incoming line (*perform equalization on the received signal*) that

U.S. Patent No. 7,594,249	Amit/Mills

results in a frequency response that is as flat as possible (*that restores a flat frequency response*) due to characteristics of the incoming line such as the length of the cable and frequency of interest (*to overcome communication channel impairments*)[6]. Mills (EX1004), 6:22–32, 23:41–46.

The '249 Patent, for example, explains that a "reflection anywhere in the wiring produces a multipath signal in some or all wiring branches that creates inter-symbol interference (ISI)….ISI will degrade the bit error rate (BER) performance of the communication channel. The effects of ISI can be overcome by applying modulation techniques or receiver processing techniques. An adaptive equalizer in the terminal device creates a filter response that restores a flat frequency response impaired by the multipath signal." '249 Patent (EX1001), 5:64–6:13. The '249 Patent also explains that it creates reflections by "introducing any impairment into an element, for example **a cable**, component, or connector…." *Id.* at 4:63–65.

Because Mills teaches using equalizers to "balance out the effect the characteristics of **the media**" (i.e., the cable), it thus teaches overcoming *communication channel impairments* as recited. Further, it was known at the time of the '249 Patent that performing equalization in a receiver would overcome inter-symbol interference (ISI) (the impairment that the '249 Patent seeks to solve by equalization), and thus, a POSITA would have recognized Mills' equalization to *overcome communication channel impairments* as recited. Lipoff (EX1008), ¶¶ 130–132 (*citing, e.g.*, Labat (EX1009), 1:4–19 ("present invention relates to an equalizer circuit (or 'equalizer') for receivers in digital communications systems…Equalization consists essentially in removing as much intersymbol interference (ISI) as possible….This can result from…a phenomenon of multi-path propagation."); Shin (EX1014), pp. 1–2 (describing a downstream unit (i.e., receiver) that includes a DFE equalizer "to eliminate intersymbol interference (ISI)"); Kerpez (EX1011), p. 141 (stating

---

[6] The claim language *to overcome communication channel impairments caused by the reflected signals* is nothing more than an intended use of the recited equalization, and thus, does not confer patentable weight to claim 10. *See* MPEP 2114 ("[A]pparatus claims cover what a device *is,* not what a device *does*." *Hewlett-Packard Co. v. Bausch & Lomb Inc.,* 909 F.2d 1464, 1469, 15 USPQ2d 1525, 1528 (Fed. Cir. 1990) (emphasis in original). A claim containing a "'recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus' if the prior art apparatus teaches all the structural limitations of the claim. *Ex parte Masham,* 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987).") Here, this claim language merely recites "the manner in which a claimed apparatus is intended to be employed" and thus does not differentiate claim 10 from the combination of Afshary and Mills, which teaches all the structural limitations of the claim.

U.S. Patent No. 7,594,249	Amit/Mills

that "[i]f there is no equalizer, then the distortion engendered by a long-delay echo will become additive noise that increases the BER" teaching that performing equalization improves bit error rate, consistent with disclosure of the '249 Patent); Dehgan (EX1010), 7:6–11 (describing an "adaptive equalizer that compensates for Inter-Symbol Interference due to the characteristics of channel 16 and receiver 14.").

While Mills may not explicitly disclose that these impairments are *caused by the reflected signals*, to the extent this language is given patentable weight, this would have been obvious in the combination with Amit, as Amit's signals that are received by the terminal devices are *reflected signals*; thus, applying Mills' technique to Amit would result in overcoming communication channel impairments *caused by the reflected signals* as recited.

Thus, the combined teachings of Amit and Mills renders obvious that *terminal devices perform equalization on the received signal that restores a flat frequency response to overcome communication channel impairments*. Lipoff (EX1008), ¶¶ 133–135.

A POSITA would have been motivated to combine the teachings of Amit and Mills for multiple reasons.

First, combining the teachings would have been no more than combining prior art elements according to known methods to yield predictable results. Together, Amit and Mills teach each and every limitation recited in claim 10. A POSITA would have been motivated to combine Mills' teaching of a receiver that performs equalization with Amit's teachings of receivers, to adjust for characteristics of the incoming line as Mills discloses, which a POSITA would have seen as an advantage, as doing so compensates for attenuation (i.e., loss) by creating a gain. Thus, a POSITA would have been motivated to combine this teaching of Mills with Amit. A POSITA would have also recognized a reasonable expectation of success in the combination, as modifying Amit's receivers in accordance with Mills teachings (to the extent Amit's receivers did not have an equalizer) would have been straightforward to a POSITA having the requisite skill in the art. For example, because Mills discloses that "most receivers use an equalizer," and because equalizers in receivers were well-known at the time of the '249 Patent (as detailed in Labat (EX1009) and Shin (EX1014), discussed above) a POSITA would have recognized a reasonable expectation of success in adding an equalizer to the terminal devices of Amit (e.g., the home units 204-207 and 212), as doing so would have required (at most) only a small amount of additional circuitry that was well-known to a POSITA at the time. Lipoff (EX1008), ¶ 137.

U.S. Patent No. 7,594,249	Amit/Mills
Additionally, the combined teachings would have represented nothing more than the use of a known technique (Mills' teachings of performing equalization on an incoming signal at a receiver) to improve Amit's similar methods in the same way, i.e., to adjust for the characteristics of the incoming line. MPEP 2143I. As detailed above, a POSITA would have been motivated to combine Mills' teaching of a receiver that performs equalization with Amit's teachings of receivers, to adjust for characteristics of the incoming line as Mills discloses, which a POSITA would have seen as an advantage, as doing so compensates for attenuation (i.e., loss) by creating a gain. Thus, a POSITA would have been motivated to combine this teaching of Mills with Amit. A POSITA would have also recognized a reasonable expectation of success in the combination, as modifying Amit's receivers in accordance with Mills teachings would have been straightforward to a POSITA having the requisite skill in the art. Lipoff (EX1008), ¶ 138.	

III. DISCLOSURE OF CONCURRENT LITIGATION AND REEXAMINATION PROCEEDINGS

Requester is aware of the following litigations in which the '249 Patent is involved:

Entropic Communications, LLC v. Charter Communications, Inc., Case No. 2:23-cv-00050 (E.D. Tex.).

Entropic Communications, LLC v. Dish Network Corporation et al., Case No. 2:23-cv-01043 (C.D. Cal.).

Entropic Communications, LLC v. Cox Communications, Inc. et al., Case No. 2:23-cv-01047 (C.D. Cal.).

Entropic Communications, LLC v. Comcast Corporation et al., Case No. 2:23-cv-01048 (C.D. Cal.).

Entropic Communications, LLC v. DirecTV, LLC et al., Case No. 2:23-cv-05253 (C.D. Cal.).

IV. CERTIFICATION REGARDING NO ESTOPPEL

In accordance with 37 C.F.R. § 1.510(b)(6), the Requester hereby certifies that the estoppel provisions of 35 U.S.C. § 315(e)(1) or 35 U.S.C. § 325(e)(1) do not prohibit the Requester from filing this Request.

V. THIS REQUEST SHOULD NOT BE DENIED UNDER 35 U.S.C. § 325(D)

As discussed in Section I.D above, this Request raises substantial new questions of patentability with respect to the Challenged claim. This Reexamination Request should ***not*** be rejected under 35 U.S.C. § 325(d), because none of the proposed rejections presented in this Request present prior art and arguments that includes "the same or substantially the same prior art or arguments" previously presented to the Office. *See* 35 U.S.C. § 325(d) ("In determining whether to institute or order a proceeding under this chapter, chapter 30, or chapter 31, the Director may take into account whether, and reject the petition or request because, the same or substantially the same prior art or arguments previously were presented to the Office."). Thus, there is no basis to exercise discretion under 35 U.S.C. § 325(d).

VI. LIST OF EXHIBITS

Exhibit 1001	U.S. Patent No. 7,594,249
Exhibit 1002	File History of U.S. Patent No. 7,594,249
Exhibit 1003	U.S. Patent Application Publication No. 2006/0218593 to Amir S. Afshary et al.
Exhibit 1004	U.S. Patent 6,795,450 to Andrew Mills et al.
Exhibit 1005	[reserved]
Exhibit 1006	U.S. Patent No. 7,127,734 to Mati Amit
Exhibit 1007	[reserved]
Exhibit 1008	Declaration of Stuart Lipoff
Exhibit 1009	U.S. Patent 5,909,466 to Labat et al.
Exhibit 1010	U.S. Patent 6,782,043 to Dehghan et al.
Exhibit 1011	"Digital Transmission Over In-Home Coaxial Wiring," Kerpez et al., IEEE (1997)
Exhibit 1012	"RF and System Requirements for Cable Modem Applications," Donald G. McMullin, IEEE (2000)
Exhibit 1013	"Single Chip Subscriber Cable Modem," Rahman et al., IEEE (1997)
Exhibit 1014	"A 64/256 QAM Receiver Chip for High-speed Communications, Shin et al., IEEE (2000)

VII. CONCLUSION

For the reasons set forth above, it is clear that substantial new questions of patentability are raised in connection with claim 10 by this request for *ex parte* reexamination since claim 10 is rendered obvious in view of the above-listed prior art references. Therefore, Requester asks that this request for reexamination be granted and that claim 10 be canceled.

As identified in the attached Certificate of Service and in accordance with 37 C.F.R. §§ 1.33(c) and 1.510(b)(5), a copy of the present request, in its entirety, is being served to the address of the attorney or agent of record.

Please direct all correspondence in this matter to the undersigned.

Respectfully submitted,

/Raghav Bajaj/
Raghav Bajaj
Registration No. 66,630
Attorney for Requester

Dated: September 11, 2023
HAYNES AND BOONE, LLP
Customer No. 27683
Telephone: 512/867-8520
Facsimile: 214/200-0853

CERTIFICATE OF SERVICE

I hereby certify that this correspondence, all attachments, and any corresponding filing fee are being transmitted via the Electronic Filing System (Patent Center) with the United States Patent and Trademark Office on September 11, 2023.

/Raghav Bajaj/
Raghav Bajaj

VIII. CERTIFICATE OF SERVICE

The undersigned certifies that copies of the following,

(1) Request for Ex Parte Reexamination Transmittal Form;

(2) PTO 1449 Modified Form;

(3) Request for Ex Parte Reexamination; and

(4) Exhibits 1001 through 1004, 1006, and 1008 through 1014.

in their entirety were served on:

MCANDREWS HELD & MALLOY, LTD
500 WEST MADISON STREET, SUITE 3400
CHICAGO, IL 60661

the attorney of record for the assignee of U.S. Patent No. 7,594,249, in accordance with 37 C.F.R. § 1.510(b)(5), on the 11th day of September 2023.

/Raghav Bajaj/
Raghav Bajaj
Registration No. 66,630

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent of: Itzhak Gurantz *et al.*	§	REQUEST FOR *Ex Parte* REEXAMINATION
	§	
	§	
U.S. Patent No. 7,594,249	§	
	§	Attorney Docket No.: 50348.109
Filed: July 21, 2001	§	
	§	Customer No.: 27683
Issued: Sept. 22, 2009	§	
	§	
Title: NETWORK INTERFACE DEVICE AND BROADBAND LOCAL AREA NETWORK USING COAXIAL CABLE	§	Real Party in Interest: Unified Patents, LLC
	§	

REQUESTER'S POWER OF ATTORNEY
PURSUANT TO 37 CFR 1.510(f)

Pursuant to 37 CFR 1.510(f) Requester, **Unified Patents, LLC**, hereby appoints the Practitioner(s) associated with **Customer Number 27683**, as its attorney(s) to prosecute and to transact all business in the United States Patent and Trademark Office in connection with the above-identified request for *Ex Parte* Reexamination. Please recognize the correspondence address (including any electronic mail address) associated with **Customer Number 27683** for the above-identified *Ex Parte* Reexamination proceeding number to be the address associated with the appointed counsel(s).

The undersigned is authorized to sign this Power of Attorney on behalf of the Requester.

Executed on 9/8/2023.

Unified Patents, LLC

By: Jonathan Stroud

Printed Name: Jonathan Stroud

Title: General Counsel

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
90/019,247	**09/11/2023 01:38:53 PM ET**	**50348.109**

Title of Invention

NETWORK INTERFACE DEVICE AND BROADBAND LOCAL AREA NETWORK USING COAXIAL CABLE

Application Information

APPLICATION TYPE	Utility / ex parte reexam	PATENT #	7594249
CONFIRMATION #	2398	FILED BY	Krista Myrick
PATENT CENTER #	62770827	FILING DATE	-
CUSTOMER #	23446	FIRST NAMED INVENTOR	Itzhak Gurantz
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Raghav Bajaj

Documents

TOTAL DOCUMENTS: 17

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
EX1001 US7594249.pdf	12	Copy of patent for which reexamination is requested	878 KB
EX1002 23446_09910412_FH.pdf	382	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	9409 KB
EX1003 Afshary US20060218593A1.pdf	11	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	1096 KB
EX1004 Mills US6795450B1.pdf	30	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	2587 KB

EX1006 Amit US7127734B1.pdf		26	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	1858 KB
EX1009 Labat US5909466.pdf		19	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	1716 KB
EX1010 Dehgan US6782043.pdf		9	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	917 KB
EX1011 kerpez1997.pdf		10	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	2064 KB
EX1012 rf-and-system-requirements-for-cable-modem-applications.pdf		5	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	739 KB
EX1013 single-chip-subscriber-cable-modem.pdf		6	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	791 KB
EX1014 Shin a-64256-qam-receiver-chip-for-highspeed-communications.pdf		6	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	744 KB
50348.109 Unified Entropic 249_PowerofAttorney.pdf		1	Power of Attorney	130 KB
50348.109 Entropic 249 Request.pdf		49	-	1510 KB
50348.109 Entropic 249 Request-RXOSUB.R.pdf	(1-48)	48	Receipt of Original Ex Parte Request by Third Party	1492 KB
50348.109 Entropic 249 Request-RXC/SR.pdf	(49-49)	1	Reexam Certificate of Service	159 KB

50348-109 Reexamination Transmittal.pdf	4	Receipt of Original Ex Parte Request by Third Party	317 KB
50348.109 PTO 1449 modified form Ex Parte Reexam Request.pdf	1	Information Disclosure Statement (IDS) Form (SB08)	28 KB

Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.

EX1008_Lipoff Declaration.pdf	76	Reexam - Affidavit/Declaration/Exhibit Filed by 3rd Party	3089 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
EX1001 US7594249.pdf	58E37476043628A64F5B2E7AC2EB205BD2162EC5B62EC4F9F6F9FC5EA071F1E463AE2658E121CB879C71E664E0875BAB58F4E345BEA0828040EA6CF9DA7365DD
EX1002 23446_09910412_FH.pdf	64A59EFD5817877A31CB5FEB189B974D2290E27477BFD49AAD96DCE69D5B9AA395652ACBD0CE0B2B4FCB452750E92C949E509AF49F30187DD781A943D62A698C
EX1003 Afshary US20060218593A1.pdf	D0DBAAC2EA2CDD5E053E73E69EA0F91852D3787CA68F876884ADB2B1AD07FBF773A4D6FE35C74053F9D588B36DEACFE45756E7504FDB3D4B1055B4B11031E00B
EX1004 Mills US6795450B1.pdf	8EF5FF44326BAFB169924AFCFB5A59E88B620B5A62075C099785A19413691C72CA0B8BE07135D226D356BC9C53FD64F962F989362EB4FA50509E4ED8B15F29DA
EX1006 Amit US7127734B1.pdf	FF6254FCD0C725E36D5CDB7AE124EBBE46F5A4C3BF8585F72EE8C4C285083E7B3CF286E9ACC9980BCDA6C38740B443FE63291DD8DEE4B0789E834DA688509864

EX1009 Labat US5909466.pdf	B5AC5DFC44A1017FBAF5515604D41F95D5500944C82B5FD32 FF2C6B03883BD56DBAD8C8E193ED4D60E873D6A623D65651 07BD376DC76B8C398D31FF991B02A2B
EX1010 Dehgan US6782043.pdf	F64F9D433F76CB89B167285CA75CAFD45F6DA96BE9C73CFE EB3B745714B21F1635BF7FBF4B2A4F1ABB4AAEADFF744A826 889D6C65F1BE2924D6664D3E420FA99
EX1011 kerpez1997.pdf	FF70AB3BADFA1905186B07A4FF0EFA2E9F73C6948EF69FDC2 9A4FDCB637F5E5F8437FEBEB8FE4D87678F4B1425AB7FEEF3 7886E224655E924145E2AF338511E5
EX1012 rf-and-system-requirements-for-cable-modem-applications.pdf	E0A5EB8F1F033AA2DFC01E7B4FB578EB802E60ED6D588CD6 BE9B42F183BAE20DC7ACA00337A0DCCA7948D390E177A4AD 9DB9876F2D14A24F216D068A14BD9B11
EX1013 single-chip-subscriber-cable-modem.pdf	8982CD8725FD0BD3C637F9CB72C1F0C2048EBCFAAF865C55 ADACC228AB3E8B067A0309D0966BA56A7A9DEC0DEA9B9818 78EA62CAA9E83C857FF4CA4287AC9BD2
EX1014 Shin a-64256-qam-receiver-chip-for-highspeed-communications.pdf	49C8F940D125EE4A90AD999BB76E7326908B388ECECB08B43 7E6E419752B79FFA309E59ECC1098234A2396EA1BC12FB03D 04129EB39CDC7A743E4D2EA49B822E
50348.109 Unified Entropic 249_PowerofAttorney.pdf	E6BB0BB530304A8474456B08415886658D000F9D03ED2EB770 9EAFC134BD1E0805AFFD528544BCCDDC59860BA95BF2797B 27136B229283D8E15408BA1E4B8B0D
50348.109 Entropic 249 Request.pdf	A7D77726B26034476B8311A3DB2F812FDEA79D55274E68F6A5 BF38C6A2E6D6B9A22DD56B209522F3890165A1F61CBA41233 E8DFC4C1C207D4A4D63B2F95C9CAB
50348.109 Entropic 249 Request-RXOSUB.R.pdf	C00467DD8E84379BD4C85E21EA9FE2A8715B3C125DEA3C80 3279F7979BD559C576D5411351E727E3E9787D766DC7F558CD 1AB1A847C54E860BF126CC7CB2D7CE
50348.109 Entropic 249 Request-RXC/SR.pdf	02ADC86C4F7F076368ECB720236CDBFD5CF3DD8FA0263CAC E8DD6A8C669ECF614B265A9A8E60294BE1F3625152A1F92FB 02E58F9CBAFB30E63CCC1781A4EA1E8

50348-109 Reexamination Transmittal.pdf	0B835982DDD7F98DB130D089645891577255B30213D7758CB3B64859C38788B8648C7162E990B3D6EE0849F3F03E1610C865D79051E8B90AF3060D89F5FE29D4
50348.109 PTO 1449 modified form Ex Parte Reexam Request.pdf	B21EA44FF2F11E00B76C6A98D7E57F0FC39F127501DD1B82114EE2C3158FB18E0BEA814E01E01F5B602923EC6A71605B058CC3B043835671C41D4D69205536F6
EX1008_Lipoff Declaration.pdf	8CB79DF79F7A01048CEF5CC48F7A1F5A9959BF91204282634F87F882EC3DAF254C55F45E00DCD3CDDA5CF5A579414FA33648CDBAAC07BE5181417EE87C3C447D

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/57 (01-18)
Approved for use through 11/30/2024. OMB 0651-0064
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also referred to as FORM PTO-1465)

REQUEST FOR *EX PARTE* REEXAMINATION TRANSMITTAL FORM

Address to:
Mail Stop *Ex Parte* Reexam
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Attorney Docket No.: 50348.109

Date: September 11, 2023

1. ■ This is a request for *ex parte* reexamination pursuant to 37 CFR 1.510 of patent number 7,594,249 issued September 22, 2009. The request is made by:
   ☐ patent owner. ■ third party requester.

2. ■ The name and address of the person requesting reexamination is:
   Raghav Bajaj, HAYNES AND BOONE, LLP
   2323 Victory Avenue, Suite 700
   Dallas, Texas 75219

3. Requester ☐ asserts small entity status (37 CFR 1.27) or ☐ certifies micro entity status (37 CFR 1.29). Only a patent owner requester can certify micro entity status. Form PTO/SB/15A or B must be attached to certify micro entity status.

4. This request is accompanied by payment of the reexamination fee as set forth in:
   ■ 37 CFR 1.20(c)(2); **or**
   ☐ 37 CFR 1.20(c)(1). **In checking this box for payment of the fee set forth in 37 CFR 1.20(c)(1), requester asserts that this request has forty (40) or fewer pages and complies with all other requirements of 37 CFR 1.20(c)(1).**

   Payment of the reexamination fee is made by the method set forth below.
   a. ☐ A check in the amount of $_____ is enclosed to cover the reexamination fee;
   b. ■ The Director is hereby authorized to charge the reexamination fee to Deposit Account No. 50-6990;
   c. ☐ Payment by credit card. Form PTO-2038 is attached; **or**
   d. ■ Payment made via EFS-Web.

   ■ In addition, the Director is hereby authorized to charge any fee deficiencies to Deposit Account No. 50-6990.

5. ■ Any refund should be made by ☐ check or ■ credit to Deposit Account No. 50-6990. 37 CFR 1.26(c). If payment is made by credit card, refund must be to credit card account.

6. ■ A copy of the patent to be reexamined having a double column format on one side of a separate paper is enclosed. 37 CFR 1.510(b)(4).

7. ☐ CD-ROM or CD-R in duplicate, Computer Program (Appendix) or large table
   ☐ Landscape Table on CD

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0064. Public burden for this form is estimated to average 18 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **If filing this completed form by mail, send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

8. ☐ Nucleotide and/or Amino Acid Sequence Submission
If applicable, items a. – c. are required.
   a. ☐ Computer Readable Form (CRF)
   b. Specification Sequence Listing on:
      i. ☐ CD-ROM (2 copies) or CD-R (2 copies) **or**
      ii. ☐ paper
   c. ☐ Statements verifying identity of above copies.

9. ■ A copy of any disclaimer, certificate of correction or reexamination certificate issued in the patent is included.

10. ■ Reexamination of claim(s) 10 is requested.

11. ■ A copy of every patent or printed publication relied upon is submitted herewith including a listing thereof on Form PTO/SB/08, PTO-1449, or equivalent.

12. ■ An English language translation of all necessary and pertinent non-English language patents and/or printed publications is attached.

13. ■ The attached detailed request includes at least the following items:
   a. A statement identifying each substantial new question of patentability based on prior patents and printed publications. 37 CFR 1.510(b)(1).
   b. An identification of every claim for which reexamination is requested, and a detailed explanation of the pertinency and manner of applying the cited art to every claim for which reexamination is requested. 37 CFR1.510(b)(2).

14. ☐ A proposed amendment is included (only where the patent owner is the requester). 37 CFR 1.510(e).

15. ■ It is certified that the statutory estoppel provisions of 35 U.S.C. 315(e)(1) or 35 U.S.C. 325(e)(1) do not prohibit requester from filing this *ex parte* reexamination request. 37 CFR 1.510(b)(6).

16. Service
   a. ■ It is certified that a copy of this request (if filed by other than the patent owner) has been served in its entirety on the patent owner as provided in 37 CFR 1.33(c).

      The name and address of the party served are:

      MCANDREWS HELD & MALLOY, LTD
      500 WEST MADISON STREET, SUITE 3400
      CHICAGO, IL 60661

      Date of Service: September 11, 2023

   OR

   b. ☐ A duplicate copy is enclosed since service on patent owner was not possible. An explanation of the efforts made to serve patent owner **is attached**. See MPEP 2220.

17. Correspondence Address: Direct all communication about the reexamination to:

☒ The address associated with Customer Number: 27683

OR

☐ Firm or Individual Name _____
(at the address identified below)

Address

City	State	Zip

Country

Telephone	Email
214-651-5000	ipdocketing@haynesboone.com

18. ☒ The patent is currently the subject of the following concurrent proceeding(s):

a. ☐ Copending reissue Application No. _____

b. ☐ Copending reexamination Control No. _____

c. ☐ Copending Interference No. _____

d. ☒ Copending litigation styled:

Entropic Communications, LLC v. Charter Communications, Inc., Case No. 2:23-cv-00050 (E.D. Tex.).; Entropic Communications, LLC v. Dish Network Corporation et al., Case No. 2:23-cv-01043 (C.D. Cal.).; Entropic Communications, LLC v. Cox Communications, Inc. et al., Case No. 2:23-cv-01047 (C.D. Cal.).; Entropic Communications, LLC v. Comcast Corporation et al., Case No. 2:23-cv-01048 (C.D. Cal.).

Entropic Communications, LLC v. DirecTV, LLC et al., Case No. 2:23-cv-05253 (C.D. Cal.).

WARNING : Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

/Raghav Bajaj/ — Authorized Signature

September 11, 2023 — Date

Raghav Bajaj — Typed/Printed Name

66,630 — Registration No.

☐ For Patent Owner Requester ☒ For Third Party Requester

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Additional Uses

Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections, or an issued patent, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.

Litigation Search Report CRU 3999

Reexamination Control No. 90/019,247

To:	EXAMINER	**From:**	MANUEL SALDANA
Location:	REM04C71	**Location:**	REM04C71
Art Unit:	3999	**Phone:**	571-272-7740
Date:	13 September 2023	**E-mail:**	MANUEL.SALDANA@USPTO.GOV

Search Notes

(OPEN) 2:23cv50, Entropic Communications, Llc V. Charter Communications, Inc.
(OPEN) 2:23cv1043, Entropic Communications, Llc V. Dish Network Corporation Et Al
(OPEN) 2:23cv1047, Entropic Communications, Llc V. Cox Communications, Inc. Et Al
(OPEN) 2:23cv1048, Entropic Communications, Llc V. Comcast Corporation Et Al
(OPEN) 2:23cv5253, Entropic Communications, Llc V. Directv, Llc Et Al

1. Performed a KeyCite Search in Westlaw, which retrieves all history on the patent including any litigation.
2. Performed a search on the patent in Lexis CourtLink for any open dockets or closed cases.
3. Performed a search in Lexis in the Federal Courts and Administrative Materials databases for any cases found.
4. Performed a search in Lexis in the IP Journal and Periodicals database for any articles on the patent.
5. Performed a search in Lexis in the news databases for any articles about the patent or any articles about litigation on this patent.

Paper No. 20230913



User Name: Manuel Saldana
Date and Time: Wednesday, September 13, 2023 9:33:00AM EDT
Job Number: 205677242

Document (1)

1. *2:23cv5253, Entropic Communications, Llc V. Directv, Llc Et Al*
   Client/Matter: -None-
   Search Terms: number(2:23CV5253)
   Search Type: Natural Language
   Narrowed by:

Content Type	Narrowed by
Dockets	Case Status: Open,Unknown,Closed

2:23cv5253, Entropic Communications, Llc V. Directv, Llc Et Al

US District Court Docket

United States District Court, California Central

(Western Division - Los Angeles)

This case was retrieved on 09/12/2023

Header

Case Number: 2:23cv5253
Date Filed: 07/01/2023
Assigned To: Judge John W. Holcomb
Referred To: Magistrate Judge Karen E. Scott
Nature of Suit: Patent (830)
Cause: Patent Infringement
Lead Docket: None
Other Docket: 2:22cv07775
Jurisdiction: Federal Question

Class Code: Open
Statute: 35:271
Jury Demand: Plaintiff
Demand Amount: $0
NOS Description: Patent

Participants

Litigants	Attorneys
Entropic Communications, LLC **Plaintiff**	Christina N. Goodrich LEAD ATTORNEY;ATTORNEY TO BE NOTICED KandL Gates LLP 10100 Santa Monica Boulevard, 8th Floor Los Angeles, CA 90067 USA 310-552-5000 Fax: 310-552-5001 Email:Christina.Goodrich@klgates.Com Cassidy Young ATTORNEY TO BE NOTICED K and L Gates LLP 10100 Santa Monica Boulevard, 8th Floor Los Angeles, CA 90067 USA 310-552-5058 Fax: 310-552-5001 Email:Cassidy.Young@klgates.Com Connor James Meggs ATTORNEY TO BE NOTICED KandL Gates LLP 10100 Santa Monica Boulevard 8th Floor Los Angeles, CA 90067 USA 310-552-5000 Fax: 310-552-5001 Email:Connor.Meggs@klgates.Com
Directv, LLC **Defendant**	David S. Frist PRO HAC VICE;ATTORNEY TO BE NOTICED Alston and Bird LLP

Manuel Saldana

Litigants	Attorneys
	1201 West Peachtree Street, Suite 4900 Atlanta, GA 30309 USA 404-881-7874 Fax: 404-881-7777 Email:David.Frist@alston.Com Emily C. Welch PRO HAC VICE;ATTORNEY TO BE NOTICED Alson and Bird LLP 1201 West Peachtree Street, Suite 4900 Atlanta, GA 30309 USA 404-881-7159 Fax: 404-881-7777 Email:Emily.Welch@alston.Com Natalie C. Clayton PRO HAC VICE;ATTORNEY TO BE NOTICED Alston and Bird LLP 90 Park Avenue, 15th Floor New York, NY 10016 USA 212-210-9573 Fax: 212-922-3845 Email:Natalie.Clayton@alston.Com Rachel E K Lowe ATTORNEY TO BE NOTICED Alston and Bird LLP 333 South Hope Street, 16th Floor Los Angeles, CA 90071 USA 213-576-1000 Fax: 213-576-1100 Email:Rachel.Lowe@alston.Com Yuri Mikulka ATTORNEY TO BE NOTICED Alston and Bird LLP 333 South Hope Street, 16th Floor Los Angeles, CA 90071 USA 213-576-1026 Fax: 213-576-1100 Email:Yuri.Mikulka@alston.Com
AT and T, Inc. [Terminated: 09/07/2023] **Defendant**	David S. Frist PRO HAC VICE;ATTORNEY TO BE NOTICED Alston and Bird LLP 1201 West Peachtree Street, Suite 4900 Atlanta, GA 30309 USA 404-881-7874 Fax: 404-881-7777 Email:David.Frist@alston.Com Emily C. Welch PRO HAC VICE;ATTORNEY TO BE NOTICED Alson and Bird LLP 1201 West Peachtree Street, Suite 4900 Atlanta, GA 30309 USA 404-881-7159 Fax: 404-881-7777 Email:Emily.Welch@alston.Com

Litigants	Attorneys
	Natalie C. Clayton PRO HAC VICE;ATTORNEY TO BE NOTICED Alston and Bird LLP 90 Park Avenue, 15th Floor New York, NY 10016 USA 212-210-9573 Fax: 212-922-3845 Email:Natalie.Clayton@alston.Com Rachel E K Lowe ATTORNEY TO BE NOTICED Alston and Bird LLP 333 South Hope Street, 16th Floor Los Angeles, CA 90071 USA 213-576-1000 Fax: 213-576-1100 Email:Rachel.Lowe@alston.Com Yuri Mikulka ATTORNEY TO BE NOTICED Alston and Bird LLP 333 South Hope Street, 16th Floor Los Angeles, CA 90071 USA 213-576-1026 Fax: 213-576-1100 Email:Yuri.Mikulka@alston.Com
AT and T Services, Inc. **Defendant**	David S. Frist PRO HAC VICE;ATTORNEY TO BE NOTICED Alston and Bird LLP 1201 West Peachtree Street, Suite 4900 Atlanta, GA 30309 USA 404-881-7874 Fax: 404-881-7777 Email:David.Frist@alston.Com Emily C. Welch PRO HAC VICE;ATTORNEY TO BE NOTICED Alson and Bird LLP 1201 West Peachtree Street, Suite 4900 Atlanta, GA 30309 USA 404-881-7159 Fax: 404-881-7777 Email:Emily.Welch@alston.Com Natalie C. Clayton PRO HAC VICE;ATTORNEY TO BE NOTICED Alston and Bird LLP 90 Park Avenue, 15th Floor New York, NY 10016 USA 212-210-9573 Fax: 212-922-3845 Email:Natalie.Clayton@alston.Com Rachel E K Lowe ATTORNEY TO BE NOTICED Alston and Bird LLP 333 South Hope Street, 16th Floor Los Angeles, CA 90071 USA

Litigants	Attorneys
	213-576-1000 Fax: 213-576-1100 Email:Rachel.Lowe@alston.Com Yuri Mikulka ATTORNEY TO BE NOTICED Alston and Bird LLP 333 South Hope Street, 16th Floor Los Angeles, CA 90071 USA 213-576-1026 Fax: 213-576-1100 Email:Yuri.Mikulka@alston.Com
AT and T Communications, LLC [Terminated: 09/07/2023] **Defendant**	David S. Frist PRO HAC VICE;ATTORNEY TO BE NOTICED Alston and Bird LLP 1201 West Peachtree Street, Suite 4900 Atlanta, GA 30309 USA 404-881-7874 Fax: 404-881-7777 Email:David.Frist@alston.Com Emily C. Welch PRO HAC VICE;ATTORNEY TO BE NOTICED Alson and Bird LLP 1201 West Peachtree Street, Suite 4900 Atlanta, GA 30309 USA 404-881-7159 Fax: 404-881-7777 Email:Emily.Welch@alston.Com Natalie C. Clayton PRO HAC VICE;ATTORNEY TO BE NOTICED Alston and Bird LLP 90 Park Avenue, 15th Floor New York, NY 10016 USA 212-210-9573 Fax: 212-922-3845 Email:Natalie.Clayton@alston.Com Rachel E K Lowe ATTORNEY TO BE NOTICED Alston and Bird LLP 333 South Hope Street, 16th Floor Los Angeles, CA 90071 USA 213-576-1000 Fax: 213-576-1100 Email:Rachel.Lowe@alston.Com Yuri Mikulka ATTORNEY TO BE NOTICED Alston and Bird LLP 333 South Hope Street, 16th Floor Los Angeles, CA 90071 USA 213-576-1026 Fax: 213-576-1100 Email:Yuri.Mikulka@alston.Com

Proceedings

#	Date	Proceeding Text	Source
1	07/01/2023	COMPLAINT Receipt No: ACACDC-35599078 - Fee: $402, filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Exhibit D, # 5 Exhibit E, # 6 Exhibit F, # 7 Exhibit G, # 8 Exhibit H, # 9 Exhibit I, # 10 Exhibit J, # 11 Exhibit K, # 12 Exhibit L, # 13 Exhibit M, # 14 Exhibit N, # 15 Exhibit O, # 16 Exhibit P, # 17 Exhibit Q, # 18 Exhibit R, # 19 Exhibit S, # 20 Exhibit T, # 21 Exhibit U, # 22 Exhibit V, # 23 Exhibit W, # 24 Exhibit X) (Attorney Christina N. Goodrich added to party Entropic Communications, LLC(pty:pla))(Goodrich, Christina) (Entered: 07/01/2023)	
2	07/01/2023	CIVIL COVER SHEET filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 07/01/2023)	
3	07/01/2023	Request for Clerk to Issue Summons on Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Summons to AT&T, Inc., # 2 Proposed Summons to AT&T Services, Inc., # 3 Proposed Summons to AT&T Communications, LLC)(Goodrich, Christina) (Entered: 07/01/2023)	
4	07/01/2023	Certification and NOTICE of Interested Parties filed by Plaintiff Entropic Communications, LLC, identifying Entropic Holdings LLC. (Goodrich, Christina) (Entered: 07/01/2023)	
5	07/01/2023	NOTICE of Related Case(s) filed by Plaintiff Entropic Communications, LLC. Related Case(s): 2:23-cv-01043-JWH-KES; 2:23-cv-01047-JWH-KES; 2:23-cv-01048-JWH-KES (Goodrich, Christina) (Entered: 07/01/2023)	
6	07/01/2023	REPORT ON THE FILING OF AN ACTION Regarding a Patent or a Trademark (Initial Notification) filed by Entropic Communications, LLC. (Goodrich, Christina) (Entered: 07/01/2023)	
7	07/03/2023	NOTICE OF ASSIGNMENT to District Judge John A. Kronstadt and Magistrate Judge Michael R. Wilner. (ghap) (Entered: 07/03/2023)	
8	07/03/2023	NOTICE TO PARTIES OF COURT-DIRECTED ADR PROGRAM filed. (ghap) (Entered: 07/03/2023)	
9	07/03/2023	Notice to Counsel Re Consent to Proceed Before a United States Magistrate Judge. (ghap) (Entered: 07/03/2023)	
10	07/03/2023	21 DAY Summons Issued re Complaint (Attorney Civil Case Opening),, 1 as to Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC. (Attachments: # 1 Summons for AT and T, Inc., # 2 Summons for AT and T Services, Inc., # 3 AT and T Communications, LLC) (ghap) (Entered: 07/03/2023)	
11	07/05/2023	ORDER RE TRANSFER PURSUANT TO GENERAL ORDER 23-05-Related Case- filed. Related Case No: 2:22-cv-07775-JWH-JEMx. Case transferred from Judge John A. Kronstadt and Magistrate Judge Michael R. Wilner to Judge John W. Holcomb and Magistrate Judge Karen E. Scott for all further proceedings. The case number will now reflect the initials of the transferee Judge 2:23-cv-05253-JWH-KESx. Signed by Judge John W. Holcomb. (aco) (Entered: 07/05/2023)	
12	07/10/2023	STANDING ORDER by Judge John W. Holcomb. (cla) (Entered: 07/10/2023)	
13	07/10/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court SETS a Status Conference on Wednesday, August 9, 2023, at 10:00 a.m. The parties are DIRECTED to appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701.	

#	Date	Proceeding Text	Source
		IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 07/10/2023)	
14	07/14/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant DIRECTV, LLC served on 7/6/2023, answer due 7/27/2023. Service of the Summons and Complaint were executed upon Jessie Gastelum, Authorized Agent, CT Corporation System in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity (Goodrich, Christina) (Entered: 07/14/2023)	
15	07/14/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant AT and T, Inc. served on 7/6/2023, answer due 7/27/2023. Service of the Summons and Complaint were executed upon George Martinez, Authorized Agent, CT Corporation System in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity (Goodrich, Christina) (Entered: 07/14/2023)	
16	07/14/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant AT and T Services, Inc. served on 7/6/2023, answer due 7/27/2023. Service of the Summons and Complaint were executed upon George Martinez, Authorized Agent, CT Corporation System in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity (Goodrich, Christina) (Entered: 07/14/2023)	
17	07/14/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant AT and T Communications, LLC served on 7/6/2023, answer due 7/27/2023. Service of the Summons and Complaint were executed upon George Martinez, Authorized Agent, CT Corporation System in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity (Goodrich, Christina) (Entered: 07/14/2023)	
18	07/24/2023	STIPULATION Extending Time to Answer the complaint as to All Defendants, re Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC.(Goodrich, Christina) (Entered: 07/24/2023)	
19	08/01/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Cassidy Young counsel for Plaintiff Entropic Communications, LLC. Adding Cassidy Young as counsel of record for Plaintiff Entropic Communications, LLC for the reason indicated in the G-123 Notice. Filed by Plaintiff Entropic Communications, LLC. (Attorney Cassidy Young added to party Entropic Communications, LLC(pty:pla))(Young, Cassidy) (Entered: 08/01/2023)	
20	08/02/2023	PROOF OF SERVICE filed by Plaintiff Entropic Communications, LLC, re Text Only Scheduling Notice, 13 , Initial Order upon Filing of Complaint - form only 12 (Defendant DIRECTV, LLC) served on 7/13/2023. (Goodrich, Christina) (Entered: 08/02/2023)	
21	08/02/2023	PROOF OF SERVICE filed by Plaintiff Entropic Communications, LLC, re Text Only Scheduling Notice, 13 , Initial Order upon Filing of Complaint - form only 12 (Defendant AT&T, Inc.) served on 7/13/2023. (Goodrich, Christina) (Entered: 08/02/2023)	
22	08/02/2023	PROOF OF SERVICE filed by Plaintiff Entropic Communications, LLC, re Text Only Scheduling Notice, 13 , Initial Order upon Filing of Complaint - form only 12 (Defendant AT&T Services, Inc.) served on 7/13/2023. (Goodrich, Christina) (Entered: 08/02/2023)	

#	Date	Proceeding Text	Source
23	08/02/2023	PROOF OF SERVICE filed by Plaintiff Entropic Communications, LLC, re Text Only Scheduling Notice. 13 , Initial Order upon Filing of Complaint - form only 12 (Defendant AT&T Communications, LLC) served on 7/13/2023. (Goodrich, Christina) (Entered: 08/02/2023)	
24	08/07/2023	STIPULATION to Continue Status Conference from August 9, 2023 to August 29, 2023 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Young, Cassidy) (Entered: 08/07/2023)	
25	08/08/2023	(IN CHAMBERS) ORDER by Judge John W. Holcomb: The Court has reviewed the parties' Stipulation [ECF No. 24], and it is hereby APPROVED.(1) The Status Conference in this case is CONTINUED to September 8, 2023, at 11:00 a.m.; (2) the parties are DIRECTED to meet and confer within three days of Defendants retaining outside counsel in this matter to discuss consolidating this case with other MoCA cases; and (3) the parties are DIRECTED to file a Status Report advising the Court of the parties respective positions on consolidation within three days of the parties discussion and in advance of the rescheduled Status Conference. IT IS SO ORDERED. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (dgo) TEXT ONLY ENTRY (Entered: 08/08/2023)	
26	08/28/2023	STIPULATION for Extension of Time to File Answer to September 27, 2023 re Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Young, Cassidy) (Entered: 08/28/2023)	
27	08/28/2023	STATUS REPORT re: Consolidation on Behalf of All Parties filed by Plaintiff Entropic Communications, LLC. (Young, Cassidy) (Entered: 08/28/2023)	
28	08/30/2023	(IN CHAMBERS) ORDER by Judge John W. Holcomb: The Court has reviewed the parties' Stipulation [ECF No. 26], and it is hereby APPROVED. Defendants deadline to answer, move, or otherwise plead in response to the Complaint on file in this matter is EXTENDED from August 28, 2023, to September 27, 2023. IT IS SO ORDERED. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 08/30/2023)	
29	09/05/2023	APPLICATION of Non-Resident Attorney Natalie C. Clayton to Appear Pro Hac Vice on behalf of Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35980359) filed by Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC. (Attachments: # 1 Proposed Order) (Attorney Yuri Mikulka added to party AT and T Communications, LLC(pty:dft), Attorney Yuri Mikulka added to party AT and T Services, Inc.(pty:dft), Attorney Yuri Mikulka added to party AT and T, Inc.(pty:dft), Attorney Yuri Mikulka added to party DIRECTV, LLC(pty:dft)) (Mikulka, Yuri) (Entered: 09/05/2023)	
30	09/05/2023	APPLICATION of Non-Resident Attorney Emily C. Welch to Appear Pro Hac Vice on behalf of Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35981046) filed by Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC. (Attachments: # 1 Proposed Order) (Mikulka, Yuri) (Entered: 09/05/2023)	
31	09/05/2023	APPLICATION of Non-Resident Attorney David S. Frist to Appear Pro Hac Vice on behalf of Defendants AT and T Communications,	

#	Date	Proceeding Text	Source
		LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35981165) filed by Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC. (Attachments: # 1 Proposed Order) (Mikulka, Yuri) (Entered: 09/05/2023)	
32	09/06/2023	NOTICE of Deficiency in Electronically Filed Pro Hac Vice Application RE: APPLICATION of Non-Resident Attorney Emily C. Welch to Appear Pro Hac Vice on behalf of Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35981046) 30 , APPLICATION of Non-Resident Attorney Natalie C. Clayton to Appear Pro Hac Vice on behalf of Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35980 29 , APPLICATION of Non-Resident Attorney David S. Frist to Appear Pro Hac Vice on behalf of Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35981165) 31 . The following error(s) was/were found: Case information is incomplete. DJ and MJ initials missing on application and proposed order. Please note DJ and MJ Notice Re Transfer, dated 7/5/23, Dkt. 11. (lt) (Entered: 09/06/2023)	
33	09/07/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Natalie C. Clayton to Appear Pro Hac Vice on behalf of Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC 29 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 09/07/2023)	
34	09/07/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Emily C. Welch to Appear Pro Hac Vice on behalf of Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC 30 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 09/07/2023)	
35	09/07/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney David S. Frist to Appear Pro Hac Vice on behalf of Defendants AT and T Communications, LLC, AT and T Services, Inc., AT and T, Inc., DIRECTV, LLC 31 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 09/07/2023)	
36	09/07/2023	NOTICE of Appearance filed by attorney Rachel E K Lowe on behalf of Defendants AT and T Services, Inc., DIRECTV, LLC (Attorney Rachel E K Lowe added to party AT and T Services, Inc.(pty:dft), Attorney Rachel E K Lowe added to party DIRECTV, LLC(pty:dft))(Lowe, Rachel) (Entered: 09/07/2023)	
37	09/07/2023	STIPULATION to Dismiss Defendants AT and T Communications, LLC, AT and T, Inc. filed by Plaintiff Entropic Communications, LLC.(Young, Cassidy) (Entered: 09/07/2023)	
38	09/08/2023	MINUTES OF Status Conference held before Judge John W. Holcomb: The Court confers with counsel regarding the posture of the case. For the reasons stated on the record, the Court hereby ORDERS that the parties are DIRECTED to file Stipulations and Proposed Orders: (1) setting a Claim Construction Schedule; and (2) appointing David M. Keyzer as Special Master. Court Reporter: Deborah Parker. (gk) (Entered: 09/12/2023)	

Patents

Number	Title	Issued	Class	Subclass
7,594,249	Network interface device and broadband local area network using coaxial cable	09/22/2009	725	78
7,889,759	Broadband cable network utilizing common bit-loading	02/15/2011	370	465
8,228,910	Aggregating network packets for transmission to a destination node	07/24/2012	370	389
8,320,566	Method and apparatus for performing constellation scrambling in a multimedia home network	11/27/2012	380	268
8,363,681	Method and apparatus for using ranging measurements in a multimedia home network	01/29/2013	370	509
9,838,213	Parameterized quality of service architecture in a network	12/05/2017	1	1
10,257,566	Broadband local area network	04/09/2019	1	1
10,432,422	Parameterized quality of service architecture in a network	10/01/2019	1	1

Copyright © LexisNexis CourtLink, Inc. All Rights Reserved.
*** THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY ***

End of Document



User Name: Manuel Saldana
Date and Time: Wednesday, September 13, 2023 9:21:00AM EDT
Job Number: 205676313

Document (1)

1. *2:23cv50, Entropic Communications, Llc V. Charter Communications, Inc.*

Client/Matter: -None-
Search Terms: number(2:23CV50)
Search Type: Natural Language
Narrowed by:

Content Type	Narrowed by
Dockets	Case Status: Open,Unknown,Closed

2:23cv50, Entropic Communications, Llc V. Charter Communications, Inc.

US District Court Docket

United States District Court, Texas Eastern

(Marshall)

This case was retrieved on 09/07/2023

Header

Case Number: 2:23cv50

Date Filed: 02/10/2023
Assigned To: District Judge Rodney Gilstrap
Nature of Suit: Patent (830)
Cause: Patent Infringement
Lead Docket: None
Other Docket: 2:22cv00125, 2:23cv00051, 2:23cv00052
Jurisdiction: Federal Question

Class Code: Open
Statute: 35:271
Jury Demand: Plaintiff
Demand Amount: $0
NOS Description: Patent

Participants

Litigants

Entropic Communications, LLC
Plaintiff

Attorneys

Cassidy Young
PRO HAC VICE;ATTORNEY TO BE NOTICED
K&L Gates LLP
10100 Santa Monica Blvd. 8th Floor
Los Angeles, CA 90067
USA
310-552-5058 Email:Cassidy.Young@klgates.Com

Christina N Goodrich
PRO HAC VICE;ATTORNEY TO BE NOTICED
K&L Gates LLP
10100 Santa Monica Blvd. Ste 8th Floor
Los Angeles, CA 90067
USA
310-552-5000 Fax: 310-552-5001
Email:Christina.Goodrich@klgates.Com

Darlene Fae Ghavimi
ATTORNEY TO BE NOTICED
K&L Gates, LLP
K&L Gates, Llp 2801 Via Fortuna Ste 650 Tx
Austin, TX 78746
USA
512-482-6800 Email:Darlene.Ghavimi@klgates.Com

George C Summerfield
ATTORNEY TO BE NOTICED
K & L Gates LLP - Chicago
70 W Madison Street Suite 3300

Manuel Saldana

Litigants	Attorneys
	Chicago, IL 60602 USA 312-807-4376 Fax: 312-827-8000 Email:George.Summerfield@klgates.Com Jack Wesley Hill ATTORNEY TO BE NOTICED Ward, Smith & Hill, PLLC 1507 Bill Owens Parkway Longview, TX 75604 USA 903-757-6400 Fax: 903-757-2323 Email:Wh@wsfirm.Com James A Shimota ATTORNEY TO BE NOTICED K&L Gates LLP - Chicago 70 West Madison Street Suite 3100 Chicago, IL 60602 USA 312-807-4299 Fax: 312-827-8000 Email:Jim.Shimota@klgates.Com Kenneth H. Bridges ATTORNEY TO BE NOTICED Bridges IP Consulting 2113 19th Ave S Nashville, TN 37212 USA 615-973-9478 Email:Bridgesip@icloud.Com Melissa Marie Haulcomb ATTORNEY TO BE NOTICED K&L Gates, LLP 70 W Madison St Ste 3100 Chicago, IL 60602 USA 312-807-4247 Email:Melissa.Haulcomb@klgates.Com Peter E. Soskin ATTORNEY TO BE NOTICED K&L Gates LLP - San Francisco Four Embarcadero Center Suite 1200 San Francisco, CA 94111 USA 415-882-8046 Fax: 415-882-8220 Email:Peter.Soskin@klgates.Com Andrea Leigh Fair ATTORNEY TO BE NOTICED Ward, Smith & Hill, PLLC 1507 Bill Owens Parkway Longview, TX 75604 USA 903-757-6400 Fax: 903-757-2323 Email:Andrea@wsfirm.Com
Charter Communications, Inc. **Defendant**	Krishnan Padmanabhan LEAD ATTORNEY;ATTORNEY TO BE NOTICED Winston & Strawn LLP - New York 200 Park Ave Floor 43

Litigants

Attorneys

New York, NY 10166-4193
USA
212-294-6700 Fax: 212-294-4700
Email:Kpadmanabhan@winston.Com

Deron R Dacus
ATTORNEY TO BE NOTICED
The Dacus Firm, PC
821 Ese Loop 323 Suite 430
Tyler, TX 75701
USA
903/705-1117 Fax: 903/581-2543
Email:Ddacus@dacusfirm.Com

Saranya Raghavan
ATTORNEY TO BE NOTICED
Winston & Strawn LLP - Chicago
35 West Wacker Drive Suite 4200
Chicago, IL 60601
USA
312-558-7574 Fax: 312-558-5700
Email:Sraghavan@winston.Com

William Mitchell Logan
ATTORNEY TO BE NOTICED
Winston & Strawn LLP - Houston
800 Capitol St. 24th Floor
Houston, TX 77002
USA
713-651-2766 Email:Wlogan@winston.Com

Charter Communications, Inc.
Consolidated Civil Action 2:23cv51 |
Consol Defendant

Krishnan Padmanabhan
LEAD ATTORNEY;ATTORNEY TO BE NOTICED
Winston & Strawn LLP - New York
200 Park Ave Floor 43
New York, NY 10166-4193
USA
212-294-6700 Fax: 212-294-4700
Email:Kpadmanabhan@winston.Com

Deron R Dacus
ATTORNEY TO BE NOTICED
The Dacus Firm, PC
821 Ese Loop 323 Suite 430
Tyler, TX 75701
USA
903/705-1117 Fax: 903/581-2543
Email:Ddacus@dacusfirm.Com

Proceedings

#	Date	Proceeding Text	Source
1	02/10/2023	COMPLAINT against Charter Communications, Inc. (Filing fee $ 402 receipt number ATXEDC-9351548.), filed by Entropic Communications, LLC. (Attachments: # 1 Civil Cover Sheet, # 2 Exhibit 1, # 3 Exhibit 2, # 4 Exhibit 3, # 5 Exhibit 4, # 6 Exhibit 5, # 7 Exhibit 6, # 8 Exhibit 7, # 9 Exhibit 8, # 10 Exhibit 9, # 11 Exhibit 10, # 12 Exhibit 11, # 13 Exhibit 12, # 14 Exhibit 13, # 15 Exhibit	

#	Date	Proceeding Text	Source
		14)(Fair, Andrea) (Entered: 02/10/2023)	
	02/10/2023	Case Assigned to District Judge Rodney Gilstrap. (nkl,) (Entered: 02/10/2023)	
	02/10/2023	In accordance with the provisions of 28 USC Section 636(c), you are hereby notified that a U.S. Magistrate Judge of this district court is available to conduct any or all proceedings in this case including a jury or non-jury trial and to order the entry of a final judgment. The form Consent to Proceed Before Magistrate Judge is available on our website. All signed consent forms, excluding pro se parties, should be filed electronically using the event Notice Regarding Consent to Proceed Before Magistrate Judge. (nkl,) (Entered: 02/10/2023)	
2	02/10/2023	CORPORATE DISCLOSURE STATEMENT filed by Entropic Communications, LLC identifying Corporate Parent Entropic Holdings, LLC for Entropic Communications, LLC. (Fair, Andrea) (Entered: 02/10/2023)	
3	02/10/2023	DEMAND for Trial by Jury by Entropic Communications, LLC. (Fair, Andrea) (Entered: 02/10/2023)	
4	02/10/2023	Notice of Filing of Patent/Trademark Form (AO 120). AO 120 mailed to the Director of the U.S. Patent and Trademark Office. (Fair, Andrea) (Entered: 02/10/2023)	
5	02/10/2023	NOTICE of Attorney Appearance by Jack Wesley Hill on behalf of Entropic Communications, LLC (Hill, Jack Wesley) (Entered: 02/10/2023)	
6	02/10/2023	SUMMONS Issued as to Charter Communications, Inc. Corporation Service Company d/b/a CSC - Lawyers Incorporating Service Company. (nkl,) (Entered: 02/10/2023)	
7	02/14/2023	NOTICE of Attorney Appearance by George C Summerfield on behalf of Entropic Communications, LLC (Summerfield, George) (Entered: 02/14/2023)	
8	02/14/2023	NOTICE of Attorney Appearance by Darlene Fae Ghavimi on behalf of Entropic Communications, LLC (Ghavimi, Darlene) (Entered: 02/14/2023)	
9	02/14/2023	NOTICE of Attorney Appearance - Pro Hac Vice by James A Shimota on behalf of Entropic Communications, LLC. Filing fee $ 100, receipt number ATXEDC-9356251. (Shimota, James) (Entered: 02/14/2023)	
10	02/14/2023	SUMMONS Returned Executed by Entropic Communications, LLC. Charter Communications, Inc. served on 2/13/2023, answer due 3/6/2023. (Fair, Andrea) (Entered: 02/14/2023)	
11	02/17/2023	NOTICE of Attorney Appearance - Pro Hac Vice by Peter E. Soskin on behalf of Entropic Communications, LLC. Filing fee $ 100, receipt number ATXEDC-9362597. (Soskin, Peter) (Entered: 02/17/2023)	
12	03/03/2023	Defendant's Unopposed First Application for Extension of Time to Answer Complaint re Charter Communications, Inc..(Dacus, Deron) (Entered: 03/03/2023)	
	03/03/2023	Defendant's Unopposed FIRST Application for Extension of Time to Answer Complaint is granted pursuant to Local Rule CV-12 for Charter Communications, Inc. to 4/20/2023. 45 Days Granted for Deadline Extension.(ch,) (Entered: 03/03/2023)	
13	03/06/2023	NOTICE of Attorney Appearance - Pro Hac Vice by Kenneth H. Bridges on behalf of Entropic Communications, LLC. Filing fee $ 100, receipt number ATXEDC-9386695. (Bridges, Kenneth) (Entered: 03/06/2023)	
14	04/18/2023	ORDER - Scheduling/Case Management Conference set for 5/30/2023 01:30 PM before District Judge Rodney Gilstrap. Signed by District Judge Rodney Gilstrap on 4/18/2023. (nkl,)	

#	Date	Proceeding Text	Source
		(Entered: 04/19/2023)	
15	04/19/2023	AMENDED COMPLAINT against Charter Communications, Inc., filed by Entropic Communications, LLC. (Attachments: # 1 Exhibit Exhibit 1, # 2 Exhibit Exhibit 2, # 3 Exhibit Exhibit 3, # 4 Exhibit Exhibit 4, # 5 Exhibit Exhibit 5, # 6 Exhibit Exhibit 6, # 7 Exhibit Exhibit 7, # 8 Exhibit Exhibit 8, # 9 Exhibit Exhibit 9, # 10 Exhibit Exhibit 10, # 11 Exhibit Exhibit 11, # 12 Exhibit Exhibit 12, # 13 Exhibit Exhibit 13, # 14 Exhibit Exhibit 14)(Hill, Jack Wesley) (Entered: 04/19/2023)	
16	04/21/2023	Unopposed MOTION to Seal by Charter Communications, Inc.. (Attachments: # 1 Text of Proposed Order)(Dacus, Deron) (Entered: 04/21/2023)	
17	04/21/2023	SEALED MOTION to Dismiss the Amended Compliant for Improper Venue Pursuant to FRCP 12(b)(3) by Charter Communications, Inc.. (Attachments: # 1 Declaration, # 2 Exhibit 1, # 3 Exhibit 2, # 4 Exhibit 3, # 5 Exhibit 4, # 6 Exhibit 5, # 7 Exhibit 6, # 8 Exhibit 7, # 9 Exhibit 8, # 10 Exhibit 9, # 11 Exhibit 10, # 12 Exhibit 11, # 13 Exhibit 12, # 14 Exhibit 13, # 15 Text of Proposed Order)(Dacus, Deron) (Entered: 04/21/2023)	
18	04/24/2023	ORDER granting 16 Motion to Seal. Signed by District Judge Rodney Gilstrap on 04/24/2023. (klc,) (Entered: 04/24/2023)	
19	05/05/2023	REDACTION to 17 SEALED MOTION to Dismiss the Amended Compliant for Improper Venue Pursuant to FRCP 12(b)(3) by Charter Communications, Inc.. (Attachments: # 1 Declaration, # 2 Text of Proposed Order, # 3 Exhibit 1, # 4 Exhibit 2, # 5 Exhibit 3, # 6 Exhibit 4, # 7 Exhibit 5, # 8 Exhibit 6, # 9 Exhibit 7, # 10 Exhibit 8, # 11 Exhibit 9, # 12 Exhibit 10, # 13 Exhibit 11, # 14 Exhibit 12, # 15 Exhibit 13)(Dacus, Deron) (Entered: 05/05/2023)	
20	05/05/2023	***FILED IN ERROR***Unopposed MOTION for Leave to File Under Seal by Entropic Communications, LLC. (Attachments: # 1 Text of Proposed Order)(Fair, Andrea) Modified on 5/8/2023 (ch,). (Entered: 05/05/2023)	
21	05/05/2023	SEALED RESPONSE to Motion re 17 SEALED MOTION to Dismiss the Amended Compliant for Improper Venue Pursuant to FRCP 12(b)(3) filed by Entropic Communications, LLC. (Attachments: # 1 Affidavit Declaration of M. Blair, # 2 Exhibit A, # 3 Exhibit B, # 4 Exhibit C, # 5 Exhibit D, # 6 Exhibit E, # 7 Exhibit F, # 8 Exhibit G, # 9 Exhibit H, # 10 Exhibit I, # 11 Exhibit J, # 12 Exhibit K, # 13 Exhibit L, # 14 Exhibit M, # 15 Exhibit N, # 16 Exhibit O, # 17 Exhibit P, # 18 Exhibit Q, # 19 Exhibit R, # 20 Exhibit S, # 21 Exhibit T, # 22 Exhibit U, # 23 Exhibit V, # 24 Exhibit W, # 25 Exhibit X, # 26 Exhibit Y, # 27 Exhibit Z, # 28 Exhibit AA, # 29 Exhibit AB, # 30 Exhibit AC)(Fair, Andrea) (Additional attachment(s) added on 5/8/2023: # 31 Text of Proposed Order) (ch,). (Entered: 05/05/2023)	
22	05/05/2023	***FILED IN ERROR***Unopposed MOTION for Leave to File Under Seal by Entropic Communications, LLC. (Attachments: # 1 Text of Proposed Order)(Fair, Andrea) Modified on 5/8/2023 (ch,). (Entered: 05/05/2023)	
	05/08/2023	***FILED IN ERROR. PER ATTORNEY Document # 20, Motion. PLEASE IGNORE.*** (ch,) (Entered: 05/08/2023)	
23	05/08/2023	Unopposed MOTION for Leave to File Under Seal Opposition to Defendants Motion to Dismiss by Entropic Communications, LLC. (Attachments: # 1 Text of Proposed Order)(Fair, Andrea) (Entered: 05/08/2023)	
	05/08/2023	***FILED IN ERROR. PER ATTORNEY Document # 22, Motion for Leave. PLEASE IGNORE.*** (ch,) (Entered: 05/08/2023)	
24	05/10/2023	NOTICE of Attorney Appearance - Pro Hac Vice by Melissa Marie Haulcomb on behalf of Entropic Communications, LLC. Filing fee	

#	Date	Proceeding Text	Source
		$ 100, receipt number ATXEDC-9492206. (Haulcomb, Melissa) (Entered: 05/10/2023)	
25	05/10/2023	ORDER granting 23 Unopposed MOTION for Leave to File Under Seal Opposition to Defendants Motion to Dismiss. Signed by District Judge Rodney Gilstrap on 5/10/2023. (ch,) (Entered: 05/11/2023)	
26	05/12/2023	Unopposed MOTION to Seal Reply in Further Support of its Motion to Dismiss the Amended Complaint for Improper Venue Pursuant to FRCP 12(b)(3) by Charter Communications, Inc.. (Attachments: # 1 Text of Proposed Order)(Dacus, Deron) (Entered: 05/12/2023)	
27	05/12/2023	SEALED REPLY to Response to Motion re 17 SEALED MOTION to Dismiss the Amended Compliant for Improper Venue Pursuant to FRCP 12(b)(3), 26 Unopposed MOTION to Seal Reply in Further Support of its Motion to Dismiss the Amended Complaint for Improper Venue Pursuant to FRCP 12(b)(3) filed by Charter Communications, Inc.. (Attachments: # 1 Declaration, # 2 Exhibit 13, # 3 Exhibit 14)(Dacus, Deron) (Entered: 05/12/2023)	
28	05/15/2023	ORDER granting 26 Motion to Seal Reply in Further Support of its Motion to Dismiss the Amended Complaint for Improper Venue Pursuant to FRCP 12(b)(3). Signed by District Judge Rodney Gilstrap on 5/15/2023. (nkl,) (Entered: 05/15/2023)	
29	05/15/2023	REDACTION to 21 Sealed Response to Motion,,, by Entropic Communications, LLC. (Attachments: # 1 Affidavit Declaration of M. Blair, # 2 Exhibit A-E, # 3 Exhibit F, # 4 Exhibit G-H, # 5 Exhibit I, # 6 Exhibit J, # 7 Exhibit K, # 8 Exhibit L, # 9 Exhibit M, # 10 Exhibit N, # 11 Exhibit O, # 12 Exhibit P, # 13 Exhibit Q, # 14 Exhibit R, # 15 Exhibit S, # 16 Exhibit T, # 17 Exhibit U, # 18 Exhibit V, # 19 Exhibit W, # 20 Exhibit X, # 21 Exhibit Y-AB, # 22 Exhibit AC, # 23 Text of Proposed Order)(Fair, Andrea) (Entered: 05/15/2023)	
30	05/19/2023	REDACTION to 27 Sealed Reply to Response to Motion, by Charter Communications, Inc.. (Attachments: # 1 Declaration, # 2 Exhibit 13, # 3 Exhibit 14)(Dacus, Deron) (Entered: 05/19/2023)	
31	05/19/2023	Unopposed MOTION for Leave to File Under Seal Sur-Reply in Further Opposition to Defendants Motion to Dismiss by Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Fair, Andrea) (Entered: 05/19/2023)	
32	05/19/2023	SEALED SUR-REPLY to Reply to Response to Motion re 17 SEALED MOTION to Dismiss the Amended Compliant for Improper Venue Pursuant to FRCP 12(b)(3) filed by Entropic Communications, LLC. (Fair, Andrea) (Entered: 05/19/2023)	
33	05/22/2023	ORDER granting 31 Unopposed MOTION for Leave to File Under Seal Sur-Reply in Further Opposition to Defendants Motion to Dismiss. Signed by District Judge Rodney Gilstrap on 5/22/2023. (ch,) (Entered: 05/22/2023)	
34	05/24/2023	NOTICE of Attorney Appearance - Pro Hac Vice by Krishnan Padmanabhan on behalf of Charter Communications, Inc.. Filing fee $ 100, receipt number ATXEDC-9516006. (Padmanabhan, Krishnan) (Entered: 05/24/2023)	
35	05/24/2023	NOTICE of Attorney Appearance - Pro Hac Vice by Saranya Raghavan on behalf of Charter Communications, Inc.. Filing fee $ 100, receipt number ATXEDC-9516609. (Raghavan, Saranya) (Entered: 05/24/2023)	
36	05/26/2023	REDACTION to 32 Sealed Sur-Reply to Reply to Response to Motion by Entropic Communications, LLC. (Fair, Andrea) (Entered: 05/26/2023)	
	05/30/2023	Minute Entry for proceedings held before District Judge Rodney Gilstrap: Scheduling Conference/Case Management Conference	

#	Date	Proceeding Text	Source
		held on 5/30/2023. Counsel for the parties appeared. Court asked whether they consented to trial before the U.S. Magistrate Judge. Court then gave counsel Claim Construction and Jury Selection/Trial dates. (Court Reporter Shawn McRoberts) (aeb) (Entered: 06/01/2023)	
37	06/13/2023	Joint MOTION for Extension of Time to File Proposed Docket Control Order and Proposed Discovery Order by Charter Communications, Inc.. (Attachments: # 1 Proposed Order)(Padmanabhan, Krishnan) (Entered: 06/13/2023)	
38	06/15/2023	ORDER granting 37 Joint MOTION for Extension of Time to File Proposed Docket Control Order and Proposed Discovery Order filed by Charter Communications, Inc. It is ORDERED that the deadline for the parties to file a Proposed Docket Control Order and a Proposed Discovery Orde is extended up to and including June 20, 2023. Signed by District Judge Rodney Gilstrap on 6/15/2023. (slo) (Entered: 06/16/2023)	
39	06/20/2023	Agreed MOTION Entry of Docket Control Order by Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Hill, Jack Wesley) (Entered: 06/20/2023)	
40	06/20/2023	Joint MOTION for Extension of Time to File Proposed Discovery Order and Protective Order by Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Hill, Jack Wesley) (Entered: 06/20/2023)	
41	06/21/2023	DOCKET CONTROL ORDER re 39 Agreed MOTION Entry of Docket Control Order filed by Entropic Communications, LLC., SPretrial Conference set for 11/4/2024 09:00 AM before District Judge Rodney Gilstrap., Amended Pleadings due by 3/27/2024., Jury Selection set for 12/9/2024 09:00AM before District Judge Rodney Gilstrap., Markman Hearing set for 6/12/2024 09:00 AM before District Judge Rodney Gilstrap., Motions in Limine due by 10/15/2024.. Proposed Pretrial Order due by 10/28/2024. Signed by District Judge Rodney Gilstrap on 6/21/2023. (nkl,) (Entered: 06/21/2023)	
42	06/21/2023	ORDER granting 40 Motion for Extension of Time to File Proposed Discovery Order and Protective Order. Signed by District Judge Rodney Gilstrap on 6/21/2023. (nkl,) (Entered: 06/21/2023)	
43	06/21/2023	NOTICE of Discovery Disclosure by Entropic Communications, LLC (Initial and Additional Disclosures) (Hill, Jack Wesley) (Entered: 06/21/2023)	
44	06/21/2023	NOTICE of Discovery Disclosure by Charter Communications, Inc. Defendant's Notice of Initial Disclosure (Padmanabhan, Krishnan) (Entered: 06/21/2023)	
45	06/26/2023	MOTION to Consolidate Cases and Deconsolidate Cases by Charter Communications, Inc.. (Attachments: # 1 Declaration of Krishnan Padmanabhan, # 2 Proposed Order re Deconsolidation and Consolidation)(Padmanabhan, Krishnan) (Additional attachment(s) added on 6/27/2023: # 3 Revised Proposed Order) (nkl,). (Entered: 06/26/2023)	
46	06/27/2023	Agreed MOTION for Entry of Discovery Order by Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Hill, Jack Wesley) (Entered: 06/27/2023)	
47	06/27/2023	Unopposed MOTION for Extension of Time to File Protective Order by Charter Communications, Inc.. (Attachments: # 1 Declaration of Krishnan Padmanabhan, # 2 Exhibit A)(Padmanabhan, Krishnan) (Entered: 06/27/2023)	
48	06/28/2023	DISCOVERY ORDER re 46 Motion for Entry of Discovery Order. Signed by District Judge Rodney Gilstrap on 6/28/2023. (nkl,) (Entered: 06/28/2023)	

#	Date	Proceeding Text	Source
49	06/28/2023	ORDER granting 47 Unopposed MOTION for Extension of Time to File Protective Order. Signed by District Judge Rodney Gilstrap on 6/28/2023. (ch,) (Entered: 06/29/2023)	
50	07/05/2023	DEFICIENT DOCUMENT Joint MOTION for Extension of Time to File Protective Order by Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Ghavimi, Darlene) Modified on 7/6/2023 (nkl,). (Entered: 07/05/2023)	
	07/06/2023	NOTICE of Deficiency regarding the Joint MOTION for Extension of Time to File Protective Order submitted document 50 does not contain a Certificate of Conference. Correction should be made by one business day. (nkl,) (Entered: 07/06/2023)	
51	07/06/2023	Joint MOTION for Extension of Time to File Protective Order by Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Ghavimi, Darlene) (Entered: 07/06/2023)	
52	07/10/2023	ORDER granting 51 Motion for Extension of Time to File Protective Order. Signed by District Judge Rodney Gilstrap on 7/7/2023. (nkl,) (Entered: 07/10/2023)	
53	07/11/2023	NOTICE of Attorney Appearance by William Mitchell Logan on behalf of Charter Communications, Inc. (Logan, William) (Entered: 07/11/2023)	
54	07/11/2023	***FILED IN ERROR***Submission of Proposed Agreed Protective order by Entropic Communications, LLC. (Attachments: # 1 Exhibit Stipulated Protective Order)(Ghavimi, Darlene) Modified on 7/11/2023 (ch,). (Entered: 07/11/2023)	
	07/11/2023	***FILED IN ERROR. NEED TO FILE A MOTION Document # 54, Submission of Protective Order. PLEASE IGNORE.*** (ch,) (Entered: 07/11/2023)	
55	07/11/2023	Agreed MOTION for Protective Order by Entropic Communications, LLC. (Attachments: # 1 Stipulated Protective Order)(Ghavimi, Darlene) (Entered: 07/11/2023)	
56	07/11/2023	RESPONSE in Opposition re 45 MOTION to Consolidate Cases and Deconsolidate Cases filed by Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Hill, Jack Wesley) (Entered: 07/11/2023)	
57	07/12/2023	STIPULATED PROTECTIVE ORDER. Signed by District Judge Rodney Gilstrap on 7/12/2023. (nkl,) (Entered: 07/12/2023)	
58	07/18/2023	REPLY to Response to Motion re 45 MOTION to Consolidate Cases and Deconsolidate Cases filed by Charter Communications, Inc.. (Padmanabhan, Krishnan) (Entered: 07/18/2023)	
59	07/25/2023	Joint MOTION for Leave to File An Amended Reply in Support of Defendant's 45 Consolidation Motion, Joint MOTION for Extension of Time to File a Sur-Reply by Charter Communications, Inc.. (Attachments: # 1 Proposed Order)(Padmanabhan, Krishnan) (Entered: 07/25/2023)	
60	07/25/2023	REPLY to Response to Motion re 45 MOTION to Consolidate Cases and Deconsolidate Cases (AMENDED) filed by Charter Communications, Inc.. (Padmanabhan, Krishnan) (Entered: 07/25/2023)	
61	07/26/2023	ORDER granting 59 Motion for Leave for Defendant to File an Amended Reply in Support of Defendants Consolidation Motion, and Extension for Plaintiff to File a Sur-Reply. Signed by District Judge Rodney Gilstrap on 7/26/2023. (nkl,) (Entered: 07/26/2023)	
62	07/26/2023	SUR-REPLY to Reply to Response to Motion re 45 MOTION to Consolidate Cases and Deconsolidate Cases filed by Entropic Communications, LLC. (Ghavimi, Darlene) (Entered: 07/26/2023)	
63	07/27/2023	NOTICE of Attorney Appearance - Pro Hac Vice by Christina N Goodrich on behalf of Entropic Communications, LLC. Filing fee $	

#	Date	Proceeding Text	Source
		100, receipt number ATXEDC-9621993. (Goodrich, Christina) (Entered: 07/27/2023)	
64	07/28/2023	NOTICE of Attorney Appearance - Pro Hac Vice by Cassidy Young on behalf of Entropic Communications, LLC. Filing fee $ 100, receipt number ATXEDC-9623865. (Young, Cassidy) (Entered: 07/28/2023)	
65	08/30/2023	MEMORANDUM OPINION AND ORDER re 45 MOTION to Consolidate Cases and Deconsolidate Cases filed by Charter Communications, Inc. Case Nos. 2:23-CV-00051 and 2:23-CV-00052 are hereby deconsolidated, and that Case No. 2:23-CV-00050-JRG is consolidated with Case No. 2:23-CV-00051-JRG for the purposes of pretrial. Further, it is ORDERED that Case No. 2:23-CV-00050-JRG shall be the lead consolidated case, and that Case No. 2:23-CV-00051-JRG shall proceed according to the lead cases docket control order for all pretrial matters. Signed by District Judge Rodney Gilstrap on 8/29/2023. (nkl,) (Entered: 08/30/2023)	

Patents

Number	Title	Issued	Class	Subclass
7,594,249	Network interface device and broadband local area network using coaxial cable	09/22/2009	725	78
7,889,759	Broadband cable network utilizing common bit-loading	02/15/2011	370	465
8,228,910	Aggregating network packets for transmission to a destination node	07/24/2012	370	389
8,320,566	Method and apparatus for performing constellation scrambling in a multimedia home network	11/27/2012	380	268
8,363,681	Method and apparatus for using ranging measurements in a multimedia home network	01/29/2013	370	509
9,838,213	Parameterized quality of service architecture in a network	12/05/2017	1	1
10,257,566	Broadband local area network	04/09/2019	1	1
10,432,422	Parameterized quality of service architecture in a network	10/01/2019	1	1

Copyright © LexisNexis CourtLink, Inc. All Rights Reserved.
*** THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY ***

End of Document



User Name: Manuel Saldana
Date and Time: Wednesday, September 13, 2023 9:29:00AM EDT
Job Number: 205676959

Document (1)

1. *2:23cv1048, Entropic Communications, Llc V. Comcast Corporation Et Al*

Client/Matter: -None-
Search Terms: number(2:23CV1048)
Search Type: Natural Language
Narrowed by:

Content Type	Narrowed by
Dockets	Case Status: Open,Unknown,Closed

2:23cv1048, Entropic Communications, Llc V. Comcast Corporation Et Al

US District Court Docket

United States District Court, California Central

(Western Division - Los Angeles)

This case was retrieved on 09/12/2023

Header

Case Number: 2:23cv1048
Date Filed: 02/10/2023
Assigned To: Judge John W. Holcomb
Referred To: Magistrate Judge Karen E. Scott
Nature of Suit: Patent (830)
Cause: Patent Infringement
Lead Docket: None
Other Docket: 2:22cv07775
Jurisdiction: Federal Question

Class Code: Open
Statute: 35:271
Jury Demand: Plaintiff
Demand Amount: $0
NOS Description: Patent

Participants

Litigants

Entropic Communications, LLC
Plaintiff

Attorneys

Christina N. Goodrich
LEAD ATTORNEY;ATTORNEY TO BE NOTICED
KandL Gates LLP
10100 Santa Monica Boulevard, 8th Floor
Los Angeles, CA 90067
USA
310-552-5000 Fax: 310-552-5001
Email:Christina.Goodrich@klgates.Com

Cassidy Young
ATTORNEY TO BE NOTICED
K and L Gates LLP
10100 Santa Monica Boulevard, 8th Floor
Los Angeles, CA 90067
USA
310-552-5058 Fax: 310-552-5001
Email:Cassidy.Young@klgates.Com

Connor James Meggs
ATTORNEY TO BE NOTICED
KandL Gates LLP
10100 Santa Monica Boulevard 8th Floor
Los Angeles, CA 90067
USA
310-552-5000 Fax: 310-552-5001
Email:Connor.Meggs@klgates.Com

Darlene F. Ghavimi
PRO HAC VICE;ATTORNEY TO BE NOTICED

Manuel Saldana

Litigants	Attorneys

KandL Gates LLP
2801 Via Fortuna, Suite 650
Austin, TX 78746
USA
512-482-6919 Fax: 512-482-6859
Email:Darlene.Ghavimi@klgates.Com

George C. Summerfield
PRO HAC VICE;ATTORNEY TO BE NOTICED
KandL Gates LLP
70 West Madison Street, Suite 3100
Chicago, IL 60602
USA
312-807-4376 Fax: 312-827-8000
Email:George.Summerfield@klgates.Com

James A. Shimota
PRO HAC VICE;ATTORNEY TO BE NOTICED
KandL Gates LLP
70 West Madison Street, Suite 3100
Chicago, IL 60602
USA
312-807-4299 Fax: 312-827-8000
Email:Jim.Shimota@klgates.Com

Kelsi Robinson
ATTORNEY TO BE NOTICED
K and L Gates LLP
10100 Santa Monica Boulevard 8th Floor
Los Angeles, CA 90067
USA
310-552-5000 Fax: 310-552-5001
Email:Kelsi.Robinson@klgates.Com

Kenneth Bridges
ATTORNEY TO BE NOTICED
Bridges IP Consulting
2113 19th Avenue S
Nashville, TN 37212
USA
615-973-9478 Email:Bridgesip@icloud.Com

Nicholas F. Lenning
PRO HAC VICE;ATTORNEY TO BE NOTICED
K and L Gates LLP
925 Fourth Avenue, Suite 2900
Seattle, WA 98104
USA
206-370-6685 Fax: 206-623-7022
Email:Nicholas.Lenning@klgates.Com

Peter E. Soskin
ATTORNEY TO BE NOTICED
KandL Gates LLP
4 Embarcadero Center, Suite 1200
San Francisco, CA 94111
USA
415-882-8200 Fax: 415-882-8220
Email:Peter.Soskin@klgates.Com

Manuel Saldana

Litigants	Attorneys
Comcast Corporation **Defendant**	Krishnan Padmanabhan LEAD ATTORNEY;ATTORNEY TO BE NOTICED Winston and Strawn LLP 200 Park Avenue New York, NY 10166 USA 212-294-6700 Fax: 212-294-4700 Email:Kpadmanabhan@winston.Com Brian E. Ferguson PRO HAC VICE;ATTORNEY TO BE NOTICED Winston and Strawn LLP 1901 L Street Nw Washington, DC 20036 USA 202-282-5000 Fax: 202-282-5100 Email:Beferguson@winston.Com Diana Hughes Leiden ATTORNEY TO BE NOTICED Winston and Strawn LLP 333 South Grand Avenue 38th Floor Los Angeles, CA 90071-1543 USA 213-615-1700 Fax: 213-615-1750 Email:Dhleiden@winston.Com Saranya Raghavan PRO HAC VICE;ATTORNEY TO BE NOTICED Winston and Strawn LLP 35 West Wacker Drive Chicago, IL 60601 USA 312-558-5600 Fax: 312-558-5700 Email:Sraghavan@winston.Com
Comcast Cable Communications, LLC **Defendant**	Krishnan Padmanabhan LEAD ATTORNEY;ATTORNEY TO BE NOTICED Winston and Strawn LLP 200 Park Avenue New York, NY 10166 USA 212-294-6700 Fax: 212-294-4700 Email:Kpadmanabhan@winston.Com Brian E. Ferguson PRO HAC VICE;ATTORNEY TO BE NOTICED Winston and Strawn LLP 1901 L Street Nw Washington, DC 20036 USA 202-282-5000 Fax: 202-282-5100 Email:Beferguson@winston.Com Diana Hughes Leiden ATTORNEY TO BE NOTICED Winston and Strawn LLP 333 South Grand Avenue 38th Floor Los Angeles, CA 90071-1543 USA

Litigants	Attorneys
	213-615-1700 Fax: 213-615-1750 Email:Dhleiden@winston.Com Saranya Raghavan PRO HAC VICE;ATTORNEY TO BE NOTICED Winston and Strawn LLP 35 West Wacker Drive Chicago, IL 60601 USA 312-558-5600 Fax: 312-558-5700 Email:Sraghavan@winston.Com
Comcast Cable Communications Management, LLC **Defendant**	Krishnan Padmanabhan LEAD ATTORNEY;ATTORNEY TO BE NOTICED Winston and Strawn LLP 200 Park Avenue New York, NY 10166 USA 212-294-6700 Fax: 212-294-4700 Email:Kpadmanabhan@winston.Com Brian E. Ferguson PRO HAC VICE;ATTORNEY TO BE NOTICED Winston and Strawn LLP 1901 L Street Nw Washington, DC 20036 USA 202-282-5000 Fax: 202-282-5100 Email:Beferguson@winston.Com Diana Hughes Leiden ATTORNEY TO BE NOTICED Winston and Strawn LLP 333 South Grand Avenue 38th Floor Los Angeles, CA 90071-1543 USA 213-615-1700 Fax: 213-615-1750 Email:Dhleiden@winston.Com Saranya Raghavan PRO HAC VICE;ATTORNEY TO BE NOTICED Winston and Strawn LLP 35 West Wacker Drive Chicago, IL 60601 USA 312-558-5600 Fax: 312-558-5700 Email:Sraghavan@winston.Com
David M Keyzer **Special Master**	David Keyzer LEAD ATTORNEY;ATTORNEY TO BE NOTICED Law Office of David Keyzer PC 5170 Golden Foothill Parkway El Dorado Hills, CA 95762 USA 916-243-5259 Fax: 916-404-0436 Email:David@keyzerlaw.Com

Proceedings

#	Date	Proceeding Text	Source
1	02/10/2023	COMPLAINT Receipt No: ACACDC-34782844 - Fee: $402, filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Exhibit D, # 5 Exhibit E, # 6 Exhibit F, # 7 Exhibit G, # 8 Exhibit H, # 9 Exhibit I, # 10 Exhibit J, # 11 Exhibit K, # 12 Exhibit L, # 13 Exhibit M, # 14 Exhibit N, # 15 Exhibit O, # 16 Exhibit P, # 17 Exhibit Q, # 18 Exhibit R, # 19 Exhibit S, # 20 Exhibit T, # 21 Exhibit U, # 22 Exhibit V, # 23 Exhibit W, # 24 Exhibit X) (Attorney Christina N. Goodrich added to party Entropic Communications, LLC(pty:pla))(Goodrich, Christina) (Entered: 02/10/2023)	
2	02/10/2023	CIVIL COVER SHEET filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 02/10/2023)	
3	02/10/2023	Request for Clerk to Issue Summons on Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Summons to Comcast Cable Communications, LLC, # 2 Proposed Summons to Comcast Cable Communications Management, LLC)(Goodrich, Christina) (Entered: 02/10/2023)	
4	02/10/2023	Certification and NOTICE of Interested Parties filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 02/10/2023)	
5	02/10/2023	NOTICE of Related Case(s) filed by Plaintiff Entropic Communications, LLC. Related Case(s): 2:23-cv-01043; 2:23-cv-01047 (Goodrich, Christina) (Entered: 02/10/2023)	
6	02/10/2023	REPORT ON THE FILING OF AN ACTION Regarding a Patent or a Trademark (Initial Notification) filed by Entropic Communications, LLC. (Goodrich, Christina) (Entered: 02/10/2023)	
7	02/14/2023	NOTICE OF ASSIGNMENT to District Judge Stanley Blumenfeld, Jr and Magistrate Judge Paul L. Abrams. (et) (Entered: 02/14/2023)	
8	02/14/2023	NOTICE TO PARTIES OF COURT-DIRECTED ADR PROGRAM filed. (et) (Entered: 02/14/2023)	
9	02/14/2023	Notice to Counsel Re Consent to Proceed Before a United States Magistrate Judge. (et) (Entered: 02/14/2023)	
10	02/14/2023	21 DAY Summons Issued re Complaint (Attorney Civil Case Opening) 1 as to Defendant Comcast Corporation. (et) (Entered: 02/14/2023)	
11	02/14/2023	21 DAY Summons Issued re Complaint (Attorney Civil Case Opening) 1 as to Defendant Comcast Cable Communications, LLC. (et) (Entered: 02/14/2023)	
12	02/14/2023	21 DAY Summons Issued re Complaint (Attorney Civil Case Opening) 1 as to Defendant Comcast Cable Communications Management, LLC. (et) (Entered: 02/14/2023)	
13	02/14/2023	NOTICE OF PRO HAC VICE APPLICATION DUE for Non-Resident Attorney Darlene F. Ghavimi on behalf of Plaintiff. A document recently filed in this case lists you as an out-of-state attorney of record. However, the Court has not been able to locate any record that you are admitted to the Bar of this Court, and you have not filed an application to appear Pro Hac Vice in this case. Accordingly, within 5 business days of the date of this notice, you must either (1) have your local counsel file an application to appear Pro Hac Vice (Form G-64) and pay the applicable fee, or (2) complete the next section of this form and return it to the court at cacd_attyadm@cacd.uscourts.gov. You have been removed as counsel of record from the docket in this case, and you will not be added back to the docket until your Pro Hac Vice status has been resolved. (et) (Entered: 02/14/2023)	

#	Date	Proceeding Text	Source
14	02/14/2023	NOTICE OF PRO HAC VICE APPLICATION DUE for Non-Resident Attorney George C Summerfield on behalf of Plaintiff. A document recently filed in this case lists you as an out-of-state attorney of record. However, the Court has not been able to locate any record that you are admitted to the Bar of this Court, and you have not filed an application to appear Pro Hac Vice in this case. Accordingly, within 5 business days of the date of this notice, you must either (1) have your local counsel file an application to appear Pro Hac Vice (Form G-64) and pay the applicable fee, or (2) complete the next section of this form and return it to the court at cacd_attyadm@cacd.uscourts.gov. You have been removed as counsel of record from the docket in this case, and you will not be added back to the docket until your Pro Hac Vice status has been resolved. (et) (Entered: 02/14/2023)	
15	02/14/2023	NOTICE OF PRO HAC VICE APPLICATION DUE for Non-Resident Attorney James A. Shimota on behalf of Plaintiff. A document recently filed in this case lists you as an out-of-state attorney of record. However, the Court has not been able to locate any record that you are admitted to the Bar of this Court, and you have not filed an application to appear Pro Hac Vice in this case. Accordingly, within 5 business days of the date of this notice, you must either (1) have your local counsel file an application to appear Pro Hac Vice (Form G-64) and pay the applicable fee, or (2) complete the next section of this form and return it to the court at cacd_attyadm@cacd.uscourts.gov. You have been removed as counsel of record from the docket in this case, and you will not be added back to the docket until your Pro Hac Vice status has been resolved. (et) (Entered: 02/14/2023)	
16	02/16/2023	ORDER RE TRANSFER PURSUANT TO GENERAL ORDER 21-01-Related Case- filed. Related Case No: 2:22-cv-07775 JWH(JEMx). Case transferred from Magistrate Judge Paul L. Abrams and Judge Stanley Blumenfeld, Jr to Judge John W. Holcomb and Magistrate Judge Karen E. Scott for all further proceedings. The case number will now reflect the initials of the transferee Judge 2:23-cv-01048 JWH(KESx). Signed by Judge John W. Holcomb (rn) (Entered: 02/16/2023)	
17	02/21/2023	MINUTE ORDER TO SHOW CAUSE REGARDING CONSOLIDATION (IN CHAMBERS) by Judge John W. Holcomb. The Court ORDERS the parties to show cause why these three cases- Nos. 2:23-cv-01043-JWH-KES, 2:23-cv-01047-JWH-KES, and 2:23-cv-01048-JWH-KES, should not be consolidated for pretrial purposes in view of the overlap in subject matter. The parties are DIRECTED to file no later than March 10, 2023, a joint response detailing their collective or respective positions regarding pretrial consolidation. A hearing on this Order to Show Cause is SET for March 31, 2023, at 9:00 a.m. in Courtroom 9D of the Ronald Reagan Federal Building and U.S. Courthouse, 411 W. 4th Street, Santa Ana, California. IT IS SO ORDERED. (yl) (Entered: 02/22/2023)	
18	02/23/2023	STANDING ORDER by Judge John W. Holcomb. (cla) (Entered: 02/23/2023)	
19	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant Comcast Corporation served on 2/16/2023, answer due 3/9/2023. Service of the Summons and Complaint were executed upon Diana Ruiz, Authorized Agent, CT Corporation System in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered: 02/23/2023)	

#	Date	Proceeding Text	Source
20	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant Comcast Cable Communications, LLC served on 2/16/2023, answer due 3/9/2023. Service of the Summons and Complaint were executed upon Diana Ruiz, Authorized Agent, CT Corporation System in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered: 02/23/2023)	
21	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant Comcast Cable Communications Management, LLC served on 2/16/2023, answer due 3/9/2023. Service of the Summons and Complaint were executed upon Diana Ruiz, Authorized Agent, CT Corporation System in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered: 02/23/2023)	
22	03/08/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Krishnan Padmanabhan counsel for Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. Adding Krishnan Padmanabhan as counsel of record for Comcast Corporation; Comcast Cable Communications, LLC; and Comcast Cable Communications Management, LLC for the reason indicated in the G-123 Notice. Filed by Defendants Comcast Corporation; Comcast Cable Communications, LLC; and Comcast Cable Communications Management, LLC. (Attorney Krishnan Padmanabhan added to party Comcast Cable Communications Management, LLC(pty:dft), Attorney Krishnan Padmanabhan added to party Comcast Cable Communications, LLC(pty:dft), Attorney Krishnan Padmanabhan added to party Comcast Corporation(pty:dft))(Padmanabhan, Krishnan) (Entered: 03/08/2023)	
23	03/08/2023	Joint STIPULATION Extending Time to Answer the complaint as to All Defendants, re Complaint (Attorney Civil Case Opening)., 1 filed by Plaintiff Entropic Communications, LLC.(Goodrich, Christina) (Entered: 03/08/2023)	
24	03/10/2023	RESPONSE filed by Plaintiff Entropic Communications, LLCto Minutes of In Chambers Order/Directive - no proceeding held,,. Set/Reset Hearing., 17 - JOINT RESPONSE TO OSC RE CONSOLIDATION (Goodrich, Christina) (Entered: 03/10/2023)	
25	03/21/2023	Joint STIPULATION to Continue Hearing on Order to Show Cause re Consolidation from March 31, 2023 to April 21, 2023 Re: Minutes of In Chambers Order/Directive - no proceeding held,,. Set/Reset Hearing,, 17 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order on Joint Stipulation to Request Continuance)(Goodrich, Christina) (Entered: 03/21/2023)	
26	03/23/2023	ORDER GRANTING JOINT STIPULATION TO REQUEST CONTINUANCE OF HEARING ON ORDER TO SHOW CAUSE REGARDING CONSOLIDATION by Judge John W. Holcomb, re Stipulation to Continue 25 . It is hereby ORDERED that the March 31, 2023, hearing on the Order to Show Cause Regarding Consolidation is CONTINUED from March 31, 2023, to April 21, 2023, at 9:00 a.m. IT IS SO ORDERED. (et) (Entered: 03/23/2023)	
27	03/30/2023	Joint STIPULATION for Extension of Time to File Answer to May 8, 2023 re Complaint (Attorney Civil Case Opening),, 1 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation.	

#	Date	Proceeding Text	Source
		(Attachments: # 1 Proposed Order)(Padmanabhan, Krishnan) (Entered: 03/30/2023)	
28	03/30/2023	ORDER GRANTING JOINT STIPULATION TO REQUEST AN ADDITIONAL 30-DAY EXTENSION OF TIME FOR DEFENDANT TO ANSWER OR OTHERWISE RESPOND TO PLAINTIFF'S COMPLAINT 27 by Judge John W. Holcomb. Having considered the Parties Joint Stipulation, and for good cause shown, it is hereby ORDERED that the deadline for Defendants to answer or otherwise respond to Plaintiffs Complaint is EXTENDED up to and including May 8, 2023. IT IS SO ORDERED. (See document for further details) (yl) (Entered: 03/31/2023)	
29	04/03/2023	MINUTE ORDER TO SHOW CAUSE REGARDING APPOINTMENT OF SPECIAL MASTER REGARDING DISCOVERY DISPUTES (IN CHAMBERS) by Judge John W. Holcomb. These cases will likely generate a substantial number of discovery disputes. For that reason, the Court is considering appointing a Special Master to assist the Court in managing and deciding discovery matters, and, therefore, it issues this order to show cause (OSC). For the foregoing reasons, the Court hereby ORDERS as follows: 1. No later than April 14, 2023, the parties are DIRECTED to respond to this OSC by each filing a statement either consenting to the appointment of a Special Master for discovery purposes or showing cause why a Special Master should not be appointed. 2. A hearing on this OSC is SET for April 21, 2023, at 9:00 a.m. See minute order for details. (lom) (Entered: 04/04/2023)	
30	04/14/2023	STATEMENT JOINTLY SUBMITTED BY THE PARTIES IN RESPONSE TO ORDER TO SHOW CAUSE RE APPOINTMENT OF A SPECIAL MASTER filed by Plaintiff Entropic Communications, LLC re: Minutes of In Chambers Order/Directive - no proceeding held,,,, Set/Reset Deadlines/Hearings,,, 29 . (Goodrich, Christina) (Entered: 04/14/2023)	
31	04/17/2023	APPLICATION of Non-Resident Attorney James A. Shimota to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35149402) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 04/17/2023)	
32	04/17/2023	Notice OF INTERESTED PARTIES (LOCAL RULE 7.1-1) (AMENDED) filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 04/17/2023)	
33	04/20/2023	APPLICATION of Non-Resident Attorney Saranya Raghavan to Appear Pro Hac Vice on behalf of Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35173187) filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Proposed Order) (Attorney Diana Hughes Leiden added to party Comcast Cable Communications Management, LLC(pty:dft), Attorney Diana Hughes Leiden added to party Comcast Cable Communications, LLC(pty:dft), Attorney Diana Hughes Leiden added to party Comcast Corporation(pty:dft)) (Leiden, Diana) (Entered: 04/20/2023)	
34	04/21/2023	MINUTE ORDER OF HEARING RE: ORDER TO SHOW CAUSE RE CONSOLIDATION held before Judge John W. Holcomb. For the reasons stated on the record, the parties are DIRECTED to meet and confer regarding a proposed order pertaining to consolidation and the appointment of Special Master. IT IS SO	

#	Date	Proceeding Text	Source
		ORDERED. Court Reporter: Debbie Hino-Spaan. (yl) (Entered: 04/24/2023)	
35	04/24/2023	Text Only ORDER GRANTING APPLICATIONS of Non-Resident Attorney James A. Shimota, to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC 31 , and Non-Resident Attorney Saranya Raghavan, to Appear Pro Hac Vice on behalf of Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, and Comcast Corporation 33 by Judge John W. Holcomb THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 04/24/2023)	
36	05/05/2023	Joint STIPULATION for Extension of Time to File Answer to May 15, 2023 re Complaint (Attorney Civil Case Opening),, 1 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Proposed Order)(Padmanabhan, Krishnan) (Entered: 05/05/2023)	
37	05/08/2023	ORDER GRANTING STIPULATION TO EXTEND TIME TO RESPOND TO COMPLAINT by Judge John W. Holcomb 36 . Having considered the Parties' Joint Stipulation, and for good cause shown, it is hereby ORDERED that the deadline for Defendants to respond to Plaintiffs Complaint is EXTENDED up to and including May 15, 2023. IT IS SO ORDERED. (yl) (Entered: 05/09/2023)	
38	05/14/2023	TRANSCRIPT for proceedings held on 4/21/2023 at 8:59 a.m. ****Transcript may be viewed at the court public terminal or purchased through Court Reporter DEBBIE HINO-SPAAN at: WEBSITE www.debbiehinospaan.com; E-mail, dhinospaan@yahoo.com before the deadline for Release of Transcript restriction. After that date, it may be obtained from the Court Reporter or through PACER. Additional formats of the transcript (ASCII, Condensed, and Word Indexing/Concordance) are also available to be purchased at any time through the Court Reporter. Notice of Intent to Redact due within 7 days of this date.** Redaction Request due 6/5/2023. Redacted Transcript Deadline set for 6/14/2023. Release of Transcript Restriction set for 8/14/2023. (dhs) (Entered: 05/14/2023)	
39	05/14/2023	NOTICE OF FILING TRANSCRIPT filed for proceedings 4/21/2023 at 8:59 a.m. re Transcript 38 THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (dhs) TEXT ONLY ENTRY (Entered: 05/14/2023)	
40	05/15/2023	APPLICATION of Non-Resident Attorney Brian E. Ferguson to Appear Pro Hac Vice on behalf of Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35314993) filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Proposed Order) (Leiden, Diana) (Entered: 05/15/2023)	
41	05/15/2023	APPLICATION to file document (Memorandum of Points & Authorities ISO Motion to Dismiss; and Exhibits A, B, C & D to Padmanabhan Declaration in Support Thereof) under seal filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Proposed Order, # 2 Redacted Document - Memorandum of Points & Authorities ISO Motion to Dismiss, # 3 Redacted Document - Exhibit A to Padmanabhan Decl., # 4 Redacted Document - Exhibit B to Padmanabhan Decl, # 5 Redacted Document - Exhibit C to Padmanabhan Decl, # 6	

#	Date	Proceeding Text	Source
		Redacted Document - Exhibit D to Padmanabhan Decl)(Padmanabhan, Krishnan) (Entered: 05/15/2023)	
42	05/15/2023	SEALED DECLARATION IN SUPPORT OF APPLICATION to file document (Memorandum of Points & Authorities ISO Motion to Dismiss; and Exhibits A, B, C & D to Padmanabhan Declaration in Support Thereof) under seal 41 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Unredacted Document - Memorandum of Points & Authorities ISO Motion to Dismiss, # 2 Unredacted Document - Exhibit A to Padmanabhan Decl., # 3 Unredacted Document - Exhibit B to Padmanabhan Decl., # 4 Unredacted Document - Exhibit C to Padmanabhan Decl., # 5 Unredacted Document - Exhibit D to Padmanabhan Decl.)(Padmanabhan, Krishnan) (Entered: 05/15/2023)	
43	05/15/2023	NOTICE OF MOTION AND MOTION to Dismiss Complaint under F.R.C.P. 12(b)(6) filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. Motion set for hearing on 6/30/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1 Declaration of Krishnan Padmanabhan, # 2 Exhibit A (Redacted), # 3 Exhibit B (Redacted), # 4 Exhibit C (Redacted), # 5 Exhibit D (Redacted), # 6 Exhibit E, # 7 Proposed Order) (Padmanabhan, Krishnan) (Entered: 05/15/2023)	
44	05/15/2023	Corporate Disclosure Statement and Notice of Interested Parties filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Padmanabhan, Krishnan) (Entered: 05/15/2023)	
45	05/15/2023	CERTIFICATE OF SERVICE filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation, re Sealed Declaration in SupportDeclaration,. 42 served on 5/15/2023. (Padmanabhan, Krishnan) (Entered: 05/15/2023)	
46	05/16/2023	NOTICE of Deficiency in Electronically Filed Pro Hac Vice Application RE: APPLICATION of Non-Resident Attorney Brian E. Ferguson to Appear Pro Hac Vice on behalf of Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation (Pro Hac Vice Fee - $500 Fee Paid, Receipt 40 . The following error(s) was/were found: Local Rule 5-4.3.4 Application not hand-signed. Other error(s) with document(s): Please note that electronic, image or stamp signatures are not allowed for either applicant or local counsel. See Instructions for Applicants (1). (lt) (Entered: 05/16/2023)	
47	05/17/2023	ORDER SETTING SCHEDULING CONFERENCE by Judge John W. Holcomb. Scheduling Conference set for 6/30/2023 at 9:00 AM before Judge John W. Holcomb. (cla) (Entered: 05/17/2023)	
48	05/17/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court SETS a Status Conference on June 9, 2023, at 11:00 a.m. The parties are DIRECTED to file a Joint Status Report no later than Friday, May 26, 2023, that includes an update regarding the appointment of a Special Master and case consolidation. The parties are DIRECTEDto appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered:	

#	Date	Proceeding Text	Source
		05/17/2023)	
49	05/17/2023	APPLICATION of Non-Resident Attorney Nicholas F. Lenning to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35334375) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 05/17/2023)	
50	05/17/2023	ORDER GRANTING DEFENDANTS' APPLICATION FOR LEAVE TO FILE UNDER SEAL IN CONNECTION WITH DEFENDANTS' MOTION TO DISMISS UNDER FED. R. CIV. P. 12(B)(6) 41 . by Judge John W. Holcomb. It is hereby ORDERED that Defendants' sealing application is GRANTED. Due to the highly sensitive nature of their subject matter, the following materials may be filed under seal: Memorandum of Points and Authorities in Support of Defendants' Motion to Dismiss. IT IS SO ORDERED. (SEE ORDER FOR FURTHER DETAILS) (yl) (Entered: 05/18/2023)	
51	05/18/2023	SEALED NOTICE OF MOTION AND MOTION TO DISMISS UNDER F.R.C.P. 12(b)(6) re Order on Motion for Leave to File Document Under Seal,, 50 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. Motion set for hearing on 6/30/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1 Exhibit A to Padmanabhan Decl., # 2 Exhibit B to Padmanabhan Decl., # 3 Exhibit C to Padmanabhan Decl., # 4 Exhibit D to Padmanabhan Decl.)(Padmanabhan, Krishnan) (Entered: 05/18/2023)	
52	05/19/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Brian E. Ferguson to Appear Pro Hac Vice on behalf of Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation 40 , APPLICATION of Non-Resident Attorney Nicholas F. Lenning to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC 49 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 05/19/2023)	
53	05/22/2023	APPLICATION to file document (Motion to Dismiss, Exhibits A and P to Padmanabhan Declaration, and Declaration of David L. Marcus) under seal filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Proposed Order, # 2 Redacted Document - Motion to Dismiss, # 3 Redacted Document - Exhibit A to Padmanabhan Decl., # 4 Redacted Document - Exhibit P to Padmanabhan Decl., # 5 Redacted Document - Declaration of David Marcus)(Padmanabhan, Krishnan) (Entered: 05/22/2023)	
54	05/22/2023	SEALED DECLARATION IN SUPPORT OF APPLICATION to file document (Motion to Dismiss, Exhibits A and P to Padmanabhan Declaration, and Declaration of David L. Marcus) under seal 53 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Unredacted Document - Motion to Dismiss, # 2 Unredacted Document - Exhibit A to Padmanabhan Decl., # 3 Unredacted Document - Exhibit P to Padmanabhan Decl., # 4 Unredacted Document - Declaration of David Marcus)(Padmanabhan, Krishnan) (Entered: 05/22/2023)	
55	05/22/2023	NOTICE OF MOTION AND MOTION to Dismiss Under F.R.C.P. 12(b)(1) filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. Motion set for hearing on 6/30/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1	

#	Date	Proceeding Text	Source
		Declaration of David L. Marcus (Redacted). # 2 Declaration of Krishnan Padmanabhan, # 3 Exhibit A (Redacted), # 4 Exhibit B, # 5 Exhibit C, # 6 Exhibit D, # 7 Exhibit E, # 8 Exhibit F, # 9 Exhibit G, # 10 Exhibit H, # 11 Exhibit I, # 12 Exhibit J, # 13 Exhibit K, # 14 Exhibit L, # 15 Exhibit M, # 16 Exhibit N, # 17 Exhibit O, # 18 Exhibit P (Redacted), # 19 Exhibit Q, # 20 Proposed Order Granting Motion to Dismiss) (Padmanabhan, Krishnan) (Entered: 05/22/2023)	
56	05/22/2023	CERTIFICATE OF SERVICE filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation, re Sealed Declaration in SupportDeclaration,, 54 served on 5/22/2023. (Padmanabhan, Krishnan) (Entered: 05/22/2023)	
57	05/23/2023	APPLICATION to file document (Docket Entries 53-2 and 55) under seal filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Proposed Order)(Padmanabhan, Krishnan) (Entered: 05/23/2023)	
58	05/23/2023	NOTICE OF MOTION AND MOTION to Dismiss Under F.R.C.P. 12(b)(1) filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. Motion set for hearing on 6/30/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1 Declaration of David L. Marcus (Redacted), # 2 Declaration of Krishnan Padmanabhan, # 3 Exhibit A (Redacted), # 4 Exhibit B, # 5 Exhibit C, # 6 Exhibit D, # 7 Exhibit E, # 8 Exhibit F, # 9 Exhibit G, # 10 Exhibit H, # 11 Exhibit I, # 12 Exhibit J, # 13 Exhibit K, # 14 Exhibit L, # 15 Exhibit M, # 16 Exhibit N, # 17 Exhibit O, # 18 Exhibit P (Redacted), # 19 Exhibit Q, # 20 Proposed Order Granting Motion to Dismiss) (Padmanabhan, Krishnan) (Entered: 05/23/2023)	
59	05/23/2023	ORDER by Judge John W. Holcomb: Granting 53 Defendants' APPLICATION For Leave to File Under Seal in Connection with Defendants' Motion to Dismiss Under Fed.R.Civ.P.12(B)(1). SEE DOCUMENT FOR FURTHER INFORMATION. (twdb) Modified on 5/25/2023 (twdb). (Entered: 05/23/2023)	
60	05/23/2023	SEALED NOTICE OF MOTION AND MOTION to Dismiss Under Fed. R. Civ. P. 12(B)(1) re Order on Motion for Leave to File Document Under Seal 59 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. Motion set for hearing on 6/30/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1 Exhibit A to Padmanabhan Decl., # 2 Exhibit P to Padmanabhan Decl., # 3 Declaration of David L. Marcus ISO Motion to Dismiss)(Padmanabhan, Krishnan) (Entered: 05/23/2023)	
61	05/23/2023	FOR COURT USE ONLY: STATISTICAL CORRECTION ORDER by Judge John W. Holcomb: granting 53 APPLICATION for leave to file under seal (twdb) (Entered: 05/25/2023)	
62	05/25/2023	ORDER GRANTING DEFENDANTS' APPLICATION TO FILE UNDER SEAL IN CONNECTION WITH DEFENDANTS MOTION TO DISMISS UNDER FED. R. CIV. P. 12(B)(1) by Judge John W. Holcomb. It is hereby ORDERED that Defendants' sealing application is GRANTED. (See document for further details) (yl) (Entered: 05/26/2023)	
63	05/26/2023	STATUS REPORT re Consolidation and Appointment of Special Master Prepared Jointly by All Parties filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 05/26/2023)	

#	Date	Proceeding Text	Source
64	05/26/2023	APPLICATION of Non-Resident Attorney George C. Summerfield to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35393513) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 05/26/2023)	
65	05/30/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court CONTINUES the Status Conference from June 9, 2023, at 11:00 a.m., to June 9, 2023, at 9:00 a.m. ***TIME CHANGE ONLY*** The parties are DIRECTED to appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 05/30/2023)	
66	05/31/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney George C. Summerfield to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC 64 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 05/31/2023)	
67	06/05/2023	FIRST AMENDED COMPLAINT against Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation amending Complaint (Attorney Civil Case Opening),, 1 , filed by Plaintiff Entropic Communications, LLC (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Exhibit D, # 5 Exhibit E, # 6 Exhibit F, # 7 Exhibit G, # 8 Exhibit H, # 9 Exhibit I, # 10 Exhibit J, # 11 Exhibit K, # 12 Exhibit L, # 13 Exhibit M, # 14 Exhibit N, # 15 Exhibit O, # 16 Exhibit P, # 17 Exhibit Q, # 18 Exhibit R, # 19 Exhibit S, # 20 Exhibit T, # 21 Exhibit U, # 22 Exhibit V, # 23 Exhibit W, # 24 Exhibit X)(Goodrich, Christina) (Entered: 06/05/2023)	
68	06/05/2023	APPLICATION to file document First Amended Complaint under seal filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Redacted Document First Amended Complaint, # 2 Proposed Order)(Meggs, Connor) (Entered: 06/05/2023)	
69	06/05/2023	SEALED DECLARATION IN SUPPORT OF APPLICATION to file document First Amended Complaint under seal 68 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Unredacted Document First Amended Complaint)(Meggs, Connor) (Entered: 06/05/2023)	
70	06/06/2023	APPLICATION of Non-Resident Attorney Darlene F. Ghavimi to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35440606) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 06/06/2023)	
71	06/06/2023	NOTICE OF ERRATA filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. correcting Sealed Declaration in SupportDeclaration,, 42 , SEALED NOTICE OF MOTION AND MOTION TO DISMISS UNDER F.R.C.P. 12(b)(6) re Order on Motion for Leave to File Document Under Seal,, 50 51 (specifically as to Exhibit A only at [42-2][51-1]) (Padmanabhan, Krishnan) (Entered: 06/06/2023)	
72	06/06/2023	SEALED DOCUMENT Corrected Exhibit A to Declaration of Krishnan Padmanabhan re Sealed Declaration in SupportDeclaration,, 42 , SEALED NOTICE OF MOTION AND	

#	Date	Proceeding Text	Source
		MOTION TO DISMISS UNDER F.R.C.P. 12(b)(6) re Order on Motion for Leave to File Document Under Seal,, 50 51 , Order on Motion for Leave to File Document Under Seal,, 50 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Exhibit A to Padmanabhan Decl.)(Padmanabhan, Krishnan) (Entered: 06/06/2023)	
73	06/06/2023	DECLARATION of Louis Campbell re Errata. 71 in Support of Notice of Errata to Comcast Defendants' Motion to Dismiss Under FRCP 12(b)(6) 43 51 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Padmanabhan, Krishnan) (Entered: 06/06/2023)	
74	06/06/2023	CERTIFICATE OF SERVICE filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation, re Sealed Document,, 72 served on 6/6/2023. (Padmanabhan, Krishnan) (Entered: 06/06/2023)	
75	06/06/2023	Joint STIPULATION to Continue Scheduling Conference from 6/30/2023 to 7/21/2023 Re: Initial Order Setting R26 Scheduling Conference - form only 47 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Proposed Order)(Padmanabhan, Krishnan) (Entered: 06/06/2023)	
76	06/06/2023	NOTICE OF LODGING filed re Amended Complaint/Petition., 67 (Attachments: # 1 Exhibit A - Redlined First Amended Complaint)(Goodrich, Christina) (Entered: 06/06/2023)	
77	06/07/2023	NOTICE of Deficiency in Electronically Filed Pro Hac Vice Application RE: APPLICATION of Non-Resident Attorney Darlene F. Ghavimi to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35440606) 70 . The following error(s) was/were found: Local Rule 5-4.3.4 Application not hand-signed. Local Rule 83-2.1.3.3(d) Certificate of Good Standing not attached for every state court listed to which the applicant has been admitted. Local Rule 83-2.1.3.3(d) Attached Certificate of Good Standing not issued within 30 days prior to filing of the application. Other error(s) with document(s): Please note that electronic, image or stamp signatures are not allowed for either applicant or local counsel. See Instructions for Applicants (1). Failed to provide GSC from NJ Bar. (lt) (Entered: 06/07/2023)	
78	06/08/2023	Joint STIPULATION for Order to Appoint Special Master filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Affidavit of David M. Keyzer Pursuant to Fed. R. Civ. P. 53(b)(3)(A), # 2 Proposed Order)(Goodrich, Christina) (Entered: 06/08/2023)	
79	06/09/2023	MINUTES OF HEARING RE: STATUS CONFERENCE held before Judge John W. Holcomb: Scheduling Conference set for 7/21/2023 at 11:00 AM before Judge John W. Holcomb. The Court hereby ORDERS as follows: 1. In view of the filing of a First Amended Complaint (ECF No. 67), Defendants Motion to Dismiss (ECF Nos. 43 & 58) and Defendants Sealed Motion to Dismiss [ECF Nos. 51, 55, & 60] are DENIED as moot. 2. The parties Joint Stipulation for Continuance of the Scheduling Conference (ECF No. 65) is APPROVED. The Scheduling Conference is CONTINUED to July 21, 2023, at 11:00 a.m. Court Reporter: Debbie Hino-Spaan. (twdb) (Entered: 06/13/2023)	
80	06/14/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Darlene F. Ghavimi to Appear Pro Hac Vice on behalf of	

#	Date	Proceeding Text	Source
		Plaintiff Entropic Communications, LLC 70 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 06/14/2023)	
81	06/20/2023	APPLICATION to file document (Motion to Dismiss under FRCP 12(b)(1) and 12(b)(6) and Exhibits A, Q, S, T, U, and V thereto) under seal filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Proposed Order, # 2 Redacted Document - Motion to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative, # 3 Redacted Document - Exhibit A, # 4 Redacted Document - Exhibit Q, # 5 Redacted Document - Exhibit S, # 6 Redacted Document - Exhibit T, # 7 Redacted Document - Exhibit U, # 8 Redacted Document - Exhibit V)(Padmanabhan, Krishnan) (Entered: 06/20/2023)	
82	06/20/2023	SEALED DECLARATION IN SUPPORT OF APPLICATION to file document (Motion to Dismiss under FRCP 12(b)(1) and 12(b)(6) and Exhibits A, Q, S, T, U, and V thereto) under seal 81 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Unredacted Document - Motion to Dismiss Under FRCP 12(b)(1) and 12(b)(6), # 2 Unredacted Document - Exhibit A, # 3 Unredacted Document - Exhibit Q, # 4 Unredacted Document - Exhibit S, # 5 Unredacted Document - Exhibit T, # 6 Unredacted Document - Exhibit U, # 7 Unredacted Document - Exhibit V)(Padmanabhan, Krishnan) (Entered: 06/20/2023)	
83	06/20/2023	NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. Motion set for hearing on 7/21/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1 Exhibit A (Redacted), # 2 Exhibit B, # 3 Exhibit C, # 4 Exhibit D, # 5 Exhibit E, # 6 Exhibit F, # 7 Exhibit G, # 8 Exhibit H, # 9 Exhibit I, # 10 Exhibit J, # 11 Exhibit K, # 12 Exhibit L, # 13 Exhibit M, # 14 Exhibit N, # 15 Exhibit O, # 16 Exhibit P, # 17 Exhibit Q (Redacted), # 18 Exhibit R, # 19 Exhibit S (Redacted), # 20 Exhibit T (Redacted), # 21 Exhibit U (Redacted), # 22 Exhibit V (Redacted), # 23 Exhibit W, # 24 Exhibit X, # 25 Proposed Order Granting Motion to Dismiss) (Padmanabhan, Krishnan) (Entered: 06/20/2023)	
84	06/21/2023	CERTIFICATE OF SERVICE filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation, re Sealed Declaration in SupportDeclaration,, 82 served on 6/20/2023. (Padmanabhan, Krishnan) (Entered: 06/21/2023)	
85	06/23/2023	TRANSCRIPT ORDER as to Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation for Court Reporter. Court will contact Vickie Kennedy at VKennedy@winston.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Leiden, Diana) (Entered: 06/23/2023)	
86	06/23/2023	ORDER GRANTING DEFENDANTS' APPLICATION FOR LEAVE TO FILE UNDER SEAL IN CONNECTION WITH DEFENDANTS MOTION TO DISMISS UNDER FED. R. CIV. P. 12(B)(1) OR 12(B)(6) IN THE ALTERNATIVE by Judge John W. Holcomb. It is hereby ORDERED that the defendants' sealing application is GRANTED. (See document for further details) (yl) (Entered: 06/23/2023)	
87	06/23/2023	EX PARTE APPLICATION to Continue Hearing on Motion to Dismiss from July 21, 2023 to September 22, 2023 Re: NOTICE	

#	Date	Proceeding Text	Source
		OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative 83 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Declaration of Nicholas F. Lenning, # 2 Exhibit A, # 3 Exhibit B, # 4 Exhibit C, # 5 Exhibit D, # 6 Proposed Order) (Goodrich, Christina) (Entered: 06/23/2023)	
88	06/23/2023	APPLICATION to file document under seal filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Redacted Document Ex Parte Application, # 2 Proposed Order)(Goodrich, Christina) (Entered: 06/23/2023)	
89	06/23/2023	SEALED DECLARATION IN SUPPORT OF APPLICATION to file document under seal 88 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Unredacted Document Ex Parte Application)(Goodrich, Christina) (Entered: 06/23/2023)	
90	06/24/2023	OPPOSITION to EX PARTE APPLICATION to Continue Hearing on Motion to Dismiss from July 21, 2023 to September 22, 2023 Re: NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative 83 87 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Declaration of Krishnan Padmanabhan, # 2 Exhibit A to Padmanabhan Decl., # 3 Exhibit B to Padmanabhan Decl., # 4 Exhibit C to Padmanabhan Decl.)(Padmanabhan, Krishnan) (Entered: 06/24/2023)	
91	06/26/2023	ORDER DENYING PLAINTIFF'S EX PARTE APPLICATIONS [ECF No. 87 in the MOCA Case and ECF No. 79 in the Cable Case] (IN CHAMBERS) by Judge John W. Holcomb. For those reasons, the Court hereby ORDERS as follows: Entropic's instant Applications are DENIED. Comcast's request to impose sanctions for Entropic's alleged needless multiplication of these proceedings is DENIED. IT IS SO ORDERED. (yl) (Entered: 06/26/2023)	
92	06/27/2023	SEALED NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative, and Sealed Exhibits A, Q, S, T, U, and V in Support Thereof re Order on Motion for Leave to File Document Under Seal, 86 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. Motion set for hearing on 7/21/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1 Exhibit A, # 2 Exhibit Q, # 3 Exhibit S, # 4 Exhibit T, # 5 Exhibit U, # 6 Exhibit V)(Leiden, Diana) (Entered: 06/27/2023)	
93	06/28/2023	CERTIFICATE OF SERVICE filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation, re SEALED NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative, and Sealed Exhibits A, Q, S, T, U, and V in Support Thereof re Order on Motion for Leave to File Document Under Seal, 86 92 served on 6/28/2023. (Leiden, Diana) (Entered: 06/28/2023)	
94	06/30/2023	MEMORANDUM in Opposition to NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative 83 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Objections to Evidence Submitted in Support of Motion to Dismiss, # 2 Proposed Order re Evidentiary Objections)(Goodrich, Christina) (Entered: 06/30/2023)	
95	06/30/2023	APPLICATION to file document under seal filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Redacted Document Opposition to Motion to Dismiss, # 2 Proposed Order)(Goodrich, Christina) (Entered: 06/30/2023)	

#	Date	Proceeding Text	Source
96	06/30/2023	SEALED DECLARATION IN SUPPORT OF APPLICATION to file document under seal 95 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Unredacted Document Opposition to Motion to Dismiss)(Goodrich, Christina) (Entered: 06/30/2023)	
97	07/05/2023	TRANSCRIPT for proceedings held on 6/9/2023 at 9:05 a.m. ****Transcript may be viewed at the court public terminal or purchased through Court Reporter DEBBIE HINO-SPAAN at: WEBSITE www.debbiehinospaan.com; E-mail. dhinospaan@yahoo.com before the deadline for Release of Transcript restriction. After that date, it may be obtained from the Court Reporter or through PACER. Additional formats of the transcript (ASCII, Condensed, and Word Indexing/Concordance) are also available to be purchased at any time through the Court Reporter. Notice of Intent to Redact due within 7 days of this date.** Redaction Request due 7/26/2023. Redacted Transcript Deadline set for 8/7/2023. Release of Transcript Restriction set for 10/3/2023. (dhs) (Entered: 07/05/2023)	
98	07/05/2023	NOTICE OF FILING TRANSCRIPT filed for proceedings 6/9/2023 at 9:05 a.m. re Transcript 97 THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (dhs) TEXT ONLY ENTRY (Entered: 07/05/2023)	
99	07/05/2023	ORDER GRANTING ENTROPIC'S APPLICATION TO FILE OPPOSITION TO MOTION TO DISMISS UNDER SEAL by Judge John W. Holcomb granting 95 APPLICATION (bm) (Entered: 07/05/2023)	
100	07/05/2023	ORDER APPOINTING DAVID KEYZER, ESQ. AS SPECIAL MASTER FOR DISCOVERY PURPOSES by Judge John W. Holcomb, re Stipulation 78 : Pursuant to Fed. R. Civ. P. 53(b)(3)(A), and good cause shown, it is hereby ORDERED as follows: 1. Appointment: The Court determines that the appointment of David Keyzer, Esq. (the "Special Master") is appropriate under Rule 53(a)(1)(C) of the Federal Rules of Civil Procedure to address pretrial matters that cannot be effectively and timely addressed by an available district judge or magistrate judge in this district. (see document for further details) (bm) Modified on 7/5/2023 (bm). (Entered: 07/05/2023)	
101	07/07/2023	NOTICE OF ERRATA filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. correcting NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative 83 (Attachments: # 1 Declaration of Krishnan Padmanabhan ISO Defendants' Motion to Dismiss Under FRCP 12(b)(1) or 12(b)(6))(Padmanabhan, Krishnan) (Entered: 07/07/2023)	
102	07/07/2023	APPLICATION to file document (Comcast's Reply in Support of Motion to Dismiss; and Exhibits 1 and 2 to Declaration of David Marcus in Support Thereof) under seal filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Proposed Order Granting Leave to File Under Seal, # 2 Redacted Document - Comcast's Reply ISO Motion to Dismiss, # 3 Redacted Document - Exhibit 1 to Marcus Decl. ISO Motion to Dismiss, # 4 Redacted Document - Exhibit 2 to Marcus Decl. ISO Motion to Dismiss)(Padmanabhan, Krishnan) (Entered: 07/07/2023)	
103	07/07/2023	SEALED DECLARATION IN SUPPORT OF APPLICATION to file document (Comcast's Reply in Support of Motion to Dismiss; and Exhibits 1 and 2 to Declaration of David Marcus in Support Thereof) under seal 102 filed by Defendants Comcast Cable	

#	Date	Proceeding Text	Source
		Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Unredacted Document - Comcast's Reply ISO Motion to Dismiss, # 2 Unredacted Document - Exhibit 1 to Marcus Decl. ISO Motion to Dismiss, # 3 Unredacted Document - Exhibit 2 to Marcus Decl. ISO Motion to Dismiss)(Padmanabhan, Krishnan) (Entered: 07/07/2023)	
104	07/07/2023	REPLY in Support of NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative 83 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Comcast's Response to Entropic's Objections to Exhibits Filed ISO Motion to Dismiss, # 2 Declaration of David Marcus ISO Motion to Dismiss, # 3 Exhibit 1 to Marcus Decl. (Redacted), # 4 Exhibit 2 to Marcus Decl. (Redacted))(Padmanabhan, Krishnan) (Entered: 07/07/2023)	
105	07/07/2023	CERTIFICATE OF SERVICE filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation, re Sealed Declaration in SupportDeclaration,, 103 served on 7/7/2023. (Padmanabhan, Krishnan) (Entered: 07/07/2023)	
106	07/07/2023	JOINT REPORT Rule 26(f) Discovery Plan ; estimated length of trial 6 to 8 days, filed by Plaintiff Entropic Communications, LLC.. (Goodrich, Christina) (Entered: 07/07/2023)	
107	07/10/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court CONTINUES the hearing on Defendant's Motion to Dismiss [ECF No. 83], Defendant's Sealed Motion to Dismiss [ECF No. 92], and the Scheduling Conference from Friday, July 21, 2023, to Wednesday, August 9, 2023, at 10:00 a.m. The parties are DIRECTED to appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 07/10/2023)	
108	07/11/2023	ORDER GRANTING DEFENDANTS' APPLICATION FOR LEAVE TO FILE UNDER SEAL IN CONNECTION WITH DEFENDANTS' REPLY IN SUPPORT OF MOTION TO DISMISS UNDER FED. R. CIV. P. 12(B)(1) OR 12(B)(6) IN THE ALTERNATIVE by Judge John W. Holcomb. It is hereby ORDERED that Defendants' sealing application is GRANTED.(yl) (Entered: 07/12/2023)	
109	07/12/2023	SEALED REPLY RE NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative 83 , Order on Sealed Motion (Generic sealed motion type event), 108 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Attachments: # 1 Exhibit 1 to Marcus Decl., # 2 Exhibit 2 to Marcus Decl.)(Padmanabhan, Krishnan) (Entered: 07/12/2023)	
110	07/12/2023	CERTIFICATE OF SERVICE filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation, re Sealed Reply, 109 served on 7/12/2023. (Padmanabhan, Krishnan) (Entered: 07/12/2023)	
111	07/14/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Kenneth Bridges counsel for Plaintiff Entropic Communications, LLC. Adding Kenneth Bridges as counsel of record for Entropic Communications, LLC for the reason indicated in the G-123 Notice. Filed by Plaintiff Entropic Communications, LLC. (Attorney	

#	Date	Proceeding Text	Source
		Kenneth Bridges added to party Entropic Communications, LLC(pty:pla))(Bridges, Kenneth) (Entered: 07/14/2023)	
112	07/24/2023	Notice of Special Master Order No. SM-1 filed by Special Master David M Keyzer. pursuant to July 5, 2023 appointment Order, setting special master preliminary conference for July 26, 2023, at 12:00 P.M., by videoconference (Attachments: # 1 Special Master Order No. SM-1)(Keyzer, David) (Entered: 07/24/2023)	
113	07/26/2023	Notice of Special Master Minutes filed by Special Master David M Keyzer. minutes of preliminary conference conducted by the special master on July 26, 2023, pursuant to the Court's July 5, 2023 Order appointing special master (Attachments: # 1 Special Master Minutes)(Keyzer, David) (Entered: 07/26/2023)	
114	08/01/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Cassidy Young counsel for Plaintiff Entropic Communications, LLC. Adding Cassidy Young as counsel of record for Plaintiff Entropic Communications, LLC for the reason indicated in the G-123 Notice. Filed by Plaintiff Entropic Communications, LLC. (Attorney Cassidy Young added to party Entropic Communications, LLC(pty:pla))(Young, Cassidy) (Entered: 08/01/2023)	
115	08/04/2023	Notice of Special Master Order No. SM-2 filed by Special Master David M Keyzer. regarding Discovery Dispute Resolution Procedures (Attachments: # 1 Special Master Order No. SM-2 re Discovery Dispute Resolution Procedures)(Keyzer, David) (Entered: 08/04/2023)	
116	08/08/2023	NOTICE of Appearance filed by attorney Kelsi Robinson on behalf of Plaintiff Entropic Communications, LLC (Attorney Kelsi Robinson added to party Entropic Communications, LLC(pty:pla))(Robinson, Kelsi) (Entered: 08/08/2023)	
117	08/09/2023	NOTICE TO FILER OF DEFICIENCIES in Electronically Filed Document RE: Notice of Appearance 116 . The following error(s) was/were found: Incorrect event selected. Correct event to be used is: Notice of Appearance or Withdrawal of Counsel G123.. In response to this notice, the Court may: (1) order an amended or correct document to be filed; (2) order the document stricken; or (3) take other action as the Court deems appropriate. You need not take any action in response to this notice unless and until the Court directs you to do so. (ak) (Entered: 08/09/2023)	
118	08/09/2023	NOTICE OF LODGING filed Slides Presented at August 9, 2023 Hearing re MEMORANDUM in Opposition to Motion, 94 (Young, Cassidy) (Entered: 08/09/2023)	
122	08/09/2023	HEARING RE: MOTION OF DEFENDANT COMCAST TO DISMISS [ECF No. 83]; SEALED MOTION OF DEFENDANT COMCAST TO DISMISS [ECF No. 92]; SCHEDULING CONFERENCE held before Judge John W. Holcomb. Court Reporter: Miriam Baird. For the reasons stated on the record, the Court takes the motions [ECF Nos. 83 & 92] under submission. Also for the reasons stated in open court, it is hereby ORDERED as follows: Plaintiff Entropic Communications is DIRECTED to file no later than August 18, 2023, a supplemental brief, of no more than five-pages, in opposition to the motion to dismiss. Defendant Comcast Corporation is DIRECTED to file no later than September 1, 2023, a responsive supplemental brief, of no more than fivepages, in support of the motion to dismiss. Counsel are DIRECTED to meet and confer forthwith regarding the Claim Construction Schedule. The parties are DIRECTED to file no later than August 18, 2023, a Stipulation and Proposed Order setting a Claim Construction Schedule. IT IS SO ORDERED. (yl) (Entered: 08/14/2023)	

#	Date	Proceeding Text	Source
119	08/10/2023	NOTICE OF LODGING filed Slides Presented at August 9, 2023 Hearing re NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative 83 (Padmanabhan, Krishnan) (Entered: 08/10/2023)	
120	08/10/2023	TRANSCRIPT ORDER as to Plaintiff Entropic Communications, LLC for Court Reporter. Court will contact Cassidy T. Young at cassidy.young@klgates.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Young, Cassidy) (Entered: 08/10/2023)	
121	08/10/2023	TRANSCRIPT ORDER as to Defendant Comcast Corporation for Court Reporter. Court will contact Liberty Quan at LQuan@winston.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Padmanabhan, Krishnan) (Entered: 08/10/2023)	
123	08/18/2023	TRANSCRIPT for proceedings held on 8/9/23. Court Reporter/Electronic Court Recorder: miriam baird, phone number mvb11893@aol.com. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Electronic Court Recorder before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER. Notice of Intent to Redact due within 7 days of this date. Redaction Request due 9/8/2023. Redacted Transcript Deadline set for 9/18/2023. Release of Transcript Restriction set for 11/16/2023. (Baird, Miriam) (Entered: 08/18/2023)	
124	08/18/2023	NOTICE OF FILING TRANSCRIPT filed for proceedings 8/9/23 re Transcript 123 THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (Baird, Miriam) TEXT ONLY ENTRY (Entered: 08/18/2023)	
125	08/18/2023	TRANSCRIPT for proceedings held on 8/9/23. Court Reporter/Electronic Court Recorder: miriam baird, phone number mvb11893@aol.com. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Electronic Court Recorder before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER. Notice of Intent to Redact due within 7 days of this date. Redaction Request due 9/8/2023. Redacted Transcript Deadline set for 9/18/2023. Release of Transcript Restriction set for 11/16/2023. (Baird, Miriam) (Entered: 08/18/2023)	
126	08/18/2023	SUPPLEMENT to MEMORANDUM in Opposition to Motion, 94 filed by Plaintiff Entropic Communications, LLC. (Young, Cassidy) (Entered: 08/18/2023)	
127	08/18/2023	STIPULATION for Order Setting Claim Construction Schedule filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Young, Cassidy) (Entered: 08/18/2023)	
128	08/21/2023	ORDER by Judge John W. Holcomb GRANTING Stipulation Setting Claim Construction Schedule 127 as follows: Claim Construction Hearing set for 9/17/2024 at 10:00 AM. (See document for further information). (jp) (Entered: 08/22/2023)	
129	09/01/2023	SUPPLEMENT to NOTICE OF MOTION AND MOTION to Dismiss Under FRCP 12(b)(1) or 12(b)(6) in the Alternative 83 filed by Defendants Comcast Cable Communications Management, LLC, Comcast Cable Communications, LLC, Comcast Corporation. (Padmanabhan, Krishnan) (Entered: 09/01/2023)	

Patents

Manuel Saldana

Number	Title	Issued	Class	Subclass
7,594,249	Network interface device and broadband local area network using coaxial cable	09/22/2009	725	78
7,889,759	Broadband cable network utilizing common bit-loading	02/15/2011	370	465
8,228,910	Aggregating network packets for transmission to a destination node	07/24/2012	370	389
8,320,566	Method and apparatus for performing constellation scrambling in a multimedia home network	11/27/2012	380	268
8,363,681	Method and apparatus for using ranging measurements in a multimedia home network	01/29/2013	370	509
9,838,213	Parameterized quality of service architecture in a network	12/05/2017	1	1
10,257,566	Broadband local area network	04/09/2019	1	1
10,432,422	Parameterized quality of service architecture in a network	10/01/2019	1	1

Copyright © LexisNexis CourtLink, Inc. All Rights Reserved.
*** THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY ***

End of Document



User Name: Manuel Saldana
Date and Time: Wednesday, September 13, 2023 9:23:00AM EDT
Job Number: 205676477

Document (1)

1. *2:23cv1043, Entropic Communications, Llc V. Dish Network Corporation Et Al*
   Client/Matter: -None-
   Search Terms: number(2:23CV1043)
   Search Type: Natural Language
   Narrowed by:

Content Type	Narrowed by
Dockets	Case Status: Open,Unknown,Closed

2:23cv1043, Entropic Communications, Llc V. Dish Network Corporation Et Al

US District Court Docket

United States District Court, California Central

(Western Division - Los Angeles)

This case was retrieved on 09/12/2023

Header

Case Number: 2:23cv1043
Date Filed: 02/10/2023
Assigned To: Judge John W. Holcomb
Referred To: Magistrate Judge Karen E. Scott
Nature of Suit: Patent (830)
Cause: Patent Infringement
Lead Docket: None
Other Docket: 2:22cv07775
Jurisdiction: Federal Question

Class Code: Open
Statute: 35:271
Jury Demand: Plaintiff
Demand Amount: $0
NOS Description: Patent

Participants

Litigants

Entropic Communications, LLC
Plaintiff

Attorneys

Christina N. Goodrich
LEAD ATTORNEY;ATTORNEY TO BE NOTICED
KandL Gates LLP
10100 Santa Monica Boulevard, 8th Floor
Los Angeles, CA 90067
USA
310-552-5000 Fax: 310-552-5001
Email:Christina.Goodrich@klgates.Com

Cassidy Young
ATTORNEY TO BE NOTICED
K and L Gates LLP
10100 Santa Monica Boulevard, 8th Floor
Los Angeles, CA 90067
USA
310-552-5058 Fax: 310-552-5001
Email:Cassidy.Young@klgates.Com

Connor James Meggs
ATTORNEY TO BE NOTICED
KandL Gates LLP
10100 Santa Monica Boulevard 8th Floor
Los Angeles, CA 90067
USA
310-552-5000 Fax: 310-552-5001
Email:Connor.Meggs@klgates.Com

Manuel Saldana

Litigants	Attorneys
	Darlene F. Ghavimi PRO HAC VICE;ATTORNEY TO BE NOTICED KandL Gates LLP 2801 Via Fortuna, Suite 650 Austin, TX 78746 USA 512-482-6919 Fax: 512-482-6859 Email:Darlene.Ghavimi@klgates.Com
	George C. Summerfield PRO HAC VICE;ATTORNEY TO BE NOTICED KandL Gates LLP 70 West Madison Street, Suite 3100 Chicago, IL 60602 USA 312-807-4376 Fax: 312-827-8000 Email:George.Summerfield@klgates.Com
	James A. Shimota PRO HAC VICE;ATTORNEY TO BE NOTICED KandL Gates LLP 70 West Madison Street, Suite 3100 Chicago, IL 60602 USA 312-807-4299 Fax: 312-827-8000 Email:Jim.Shimota@klgates.Com
	Kenneth Bridges ATTORNEY TO BE NOTICED Bridges IP Consulting 2113 19th Avenue S Nashville, TN 37212 USA 615-973-9478 Email:Bridgesip@icloud.Com
	Peter E. Soskin ATTORNEY TO BE NOTICED K and L Gates LLP 4 Embarcadero Center, Suite 1200 San Francisco, CA 94111 USA 415-882-8200 Fax: 415-882-8220 Email:Peter.Soskin@klgates.Com
Dish Network Corporation **Defendant**	Christopher S. Marchese LEAD ATTORNEY;ATTORNEY TO BE NOTICED Fish and Richardson PC 633 West 5th Street, 26th Floor Los Angeles, CA 90071 USA 213-533-4240 Fax: 858-678-5099 Email:Marchese@fr.Com
	Aaron P. Pirouznia PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1717 Main Street, Suite 5000 Dallas, TX 75201 USA 214-292-4073 Fax: 214-747-2091 Email:Pirouznia@fr.Com

Litigants	Attorneys
	Adam R. Shartzer PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue, Sw, Suite 1000 Washington, DC 20024 USA 202-783-5070 Fax: 202-783-2331 Email:Shartzer@fr.Com
	Ashley A. Bolt PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1180 Peachtree Street, Ne, 21nd Floor Atlanta, GA 30309 USA 404-892-5005 Fax: 404-892-5002 Email:Bolt@fr.Com
	David M. Barkan ATTORNEY TO BE NOTICED Fish and Richardson 500 Arguello Street Suite 400 Redwood City, CA 94063 USA 650-839-5070 Fax: 650-839-5071 Email:Barkan@fr.Com
	John-Paul Fryckman ATTORNEY TO BE NOTICED Fish and Richardson P.C. 12860 El Camino Real Suite 400 San Diego, CA 92130 USA 858-678-5070 Fax: 858-678-5099 Email:Fryckman@fr.Com
	Matthew C Bernstein ATTORNEY TO BE NOTICED Perkins Coie LLP 1888 Century Park East Suite 1700 Los Angeles, CA 90067-1721 USA 858-720-5751 Fax: 858-720-5799 Email:Mbernstein@perkinscoie.Com
	Michael John Ballanco PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson P.C. 1000 Maine Avenue, Sw, Suite 1000 Washington, DC 20024 USA 202-626-6371 Email:Ballanco@fr.Com
	Ralph A Phillips PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA 202-783-5070 Fax: 202-783-2331 Email:Rphillips@fr.Com
	Richard A. Sterba

Manuel Saldana

Litigants	Attorneys
	PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson P.C. 1000 Maine Ave., Sw Suite 1000 Washington, DC 20024 USA 202-626-7714 Email:Sterba@fr.Com Ruffin B. Cordell PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA 202-783-5070 Fax: 202-783-2331 Email:Cordell@fr.Com Taylor Caldwell Burgener ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA 202-626-6376 Fax: 202-783-2331 Email:Burgener@fr.Com
Dish Network LLC **Defendant**	Christopher S. Marchese LEAD ATTORNEY;ATTORNEY TO BE NOTICED Fish and Richardson PC 633 West 5th Street, 26th Floor Los Angeles, CA 90071 USA 213-533-4240 Fax: 858-678-5099 Email:Marchese@fr.Com Aaron P. Pirouznia PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1717 Main Street, Suite 5000 Dallas, TX 75201 USA 214-292-4073 Fax: 214-747-2091 Email:Pirouznia@fr.Com Adam R. Shartzer PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue, Sw, Suite 1000 Washington, DC 20024 USA 202-783-5070 Fax: 202-783-2331 Email:Shartzer@fr.Com Ashley A. Bolt PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1180 Peachtree Street, Ne, 21nd Floor Atlanta, GA 30309 USA 404-892-5005 Fax: 404-892-5002 Email:Bolt@fr.Com David M. Barkan ATTORNEY TO BE NOTICED Fish and Richardson 500 Arguello Street Suite 400 Redwood City, CA 94063

Manuel Saldana

Litigants	Attorneys
	USA 650-839-5070 Fax: 650-839-5071 Email:Barkan@fr.Com John-Paul Fryckman ATTORNEY TO BE NOTICED Fish and Richardson P.C. 12860 El Camino Real Suite 400 San Diego, CA 92130 USA 858-678-5070 Fax: 858-678-5099 Email:Fryckman@fr.Com Matthew C Bernstein ATTORNEY TO BE NOTICED Perkins Coie LLP 1888 Century Park East Suite 1700 Los Angeles, CA 90067-1721 USA 858-720-5751 Fax: 858-720-5799 Email:Mbernstein@perkinscoie.Com Michael John Ballanco PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson P.C. 1000 Maine Avenue, Sw, Suite 1000 Washington, DC 20024 USA 202-626-6371 Email:Ballanco@fr.Com Ralph A Phillips PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA 202-783-5070 Fax: 202-783-2331 Email:Rphillips@fr.Com Richard A. Sterba PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson P.C. 1000 Maine Ave., Sw Suite 1000 Washington, DC 20024 USA 202-626-7714 Email:Sterba@fr.Com Ruffin B. Cordell PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA 202-783-5070 Fax: 202-783-2331 Email:Cordell@fr.Com Taylor Caldwell Burgener ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA

Litigants	Attorneys
	202-626-6376 Fax: 202-783-2331 Email:Burgener@fr.Com
Dish Network Service, LLC **Defendant**	Christopher S. Marchese LEAD ATTORNEY;ATTORNEY TO BE NOTICED Fish and Richardson PC 633 West 5th Street, 26th Floor Los Angeles, CA 90071 USA 213-533-4240 Fax: 858-678-5099 Email:Marchese@fr.Com Aaron P. Pirouznia PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1717 Main Street, Suite 5000 Dallas, TX 75201 USA 214-292-4073 Fax: 214-747-2091 Email:Pirouznia@fr.Com Adam R. Shartzer PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue, Sw, Suite 1000 Washington, DC 20024 USA 202-783-5070 Fax: 202-783-2331 Email:Shartzer@fr.Com Ashley A. Bolt PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1180 Peachtree Street, Ne, 21nd Floor Atlanta, GA 30309 USA 404-892-5005 Fax: 404-892-5002 Email:Bolt@fr.Com David M. Barkan ATTORNEY TO BE NOTICED Fish and Richardson 500 Arguello Street Suite 400 Redwood City, CA 94063 USA 650-839-5070 Fax: 650-839-5071 Email:Barkan@fr.Com John-Paul Fryckman ATTORNEY TO BE NOTICED Fish and Richardson P.C. 12860 El Camino Real Suite 400 San Diego, CA 92130 USA 858-678-5070 Fax: 858-678-5099 Email:Fryckman@fr.Com Matthew C Bernstein ATTORNEY TO BE NOTICED Perkins Coie LLP 1888 Century Park East Suite 1700 Los Angeles, CA 90067-1721 USA 858-720-5751 Fax: 858-720-5799 Email:Mbernstein@perkinscoie.Com

Litigants	Attorneys
	Michael John Ballanco PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson P.C. 1000 Maine Avenue, Sw, Suite 1000 Washington, DC 20024 USA 202-626-6371 Email:Ballanco@fr.Com Ralph A Phillips PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA 202-783-5070 Fax: 202-783-2331 Email:Rphillips@fr.Com Richard A. Sterba PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson P.C. 1000 Maine Ave., Sw Suite 1000 Washington, DC 20024 USA 202-626-7714 Email:Sterba@fr.Com Ruffin B. Cordell PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA 202-783-5070 Fax: 202-783-2331 Email:Cordell@fr.Com Taylor Caldwell Burgener ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA 202-626-6376 Fax: 202-783-2331 Email:Burgener@fr.Com
Dish Network California Service Corporation **Defendant**	Christopher S. Marchese LEAD ATTORNEY;ATTORNEY TO BE NOTICED Fish and Richardson PC 633 West 5th Street, 26th Floor Los Angeles, CA 90071 USA 213-533-4240 Fax: 858-678-5099 Email:Marchese@fr.Com Aaron P. Pirouznia PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1717 Main Street, Suite 5000 Dallas, TX 75201 USA 214-292-4073 Fax: 214-747-2091 Email:Pirouznia@fr.Com Adam R. Shartzer PRO HAC VICE;ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue, Sw, Suite 1000

Litigants	Attorneys

Washington, DC 20024
USA
202-783-5070 Fax: 202-783-2331 Email:Shartzer@fr.Com

Ashley A. Bolt
PRO HAC VICE;ATTORNEY TO BE NOTICED
Fish and Richardson PC
1180 Peachtree Street, Ne, 21nd Floor
Atlanta, GA 30309
USA
404-892-5005 Fax: 404-892-5002 Email:Bolt@fr.Com

David M. Barkan
ATTORNEY TO BE NOTICED
Fish and Richardson
500 Arguello Street Suite 400
Redwood City, CA 94063
USA
650-839-5070 Fax: 650-839-5071 Email:Barkan@fr.Com

John-Paul Fryckman
ATTORNEY TO BE NOTICED
Fish and Richardson P.C.
12860 El Camino Real Suite 400
San Diego, CA 92130
USA
858-678-5070 Fax: 858-678-5099 Email:Fryckman@fr.Com

Michael John Ballanco
PRO HAC VICE;ATTORNEY TO BE NOTICED
Fish and Richardson P.C.
1000 Maine Avenue, Sw, Suite 1000
Washington, DC 20024
USA
202-626-6371 Email:Ballanco@fr.Com

Ralph A Phillips
PRO HAC VICE;ATTORNEY TO BE NOTICED
Fish and Richardson PC
1000 Maine Avenue Sw, Suite 1000
Washington, DC 20024
USA
202-783-5070 Fax: 202-783-2331 Email:Rphillips@fr.Com

Richard A. Sterba
PRO HAC VICE;ATTORNEY TO BE NOTICED
Fish and Richardson P.C.
1000 Maine Ave., Sw Suite 1000
Washington, DC 20024
USA
202-626-7714 Email:Sterba@fr.Com

Ruffin B. Cordell
PRO HAC VICE;ATTORNEY TO BE NOTICED
Fish and Richardson PC
1000 Maine Avenue Sw, Suite 1000
Washington, DC 20024
USA

Manuel Saldana

Litigants	Attorneys
	202-783-5070 Fax: 202-783-2331 Email:Cordell@fr.Com Taylor Caldwell Burgener ATTORNEY TO BE NOTICED Fish and Richardson PC 1000 Maine Avenue Sw, Suite 1000 Washington, DC 20024 USA 202-626-6376 Fax: 202-783-2331 Email:Burgener@fr.Com
David M Keyzer **Special Master**	David Keyzer LEAD ATTORNEY;ATTORNEY TO BE NOTICED Law Office of David Keyzer PC 5170 Golden Foothill Parkway El Dorado Hills, CA 95762 USA 916-243-5259 Fax: 916-404-0436 Email:David@keyzerlaw.Com

Proceedings

#	Date	Proceeding Text	Source
1	02/10/2023	COMPLAINT Receipt No: ACACDC-34782522 - Fee: $402, filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Exhibit D, # 5 Exhibit E, # 6 Exhibit F, # 7 Exhibit G, # 8 Exhibit H, # 9 Exhibit I, # 10 Exhibit J, # 11 Exhibit K, # 12 Exhibit L, # 13 Exhibit M, # 14 Exhibit N, # 15 Exhibit O, # 16 Exhibit P, # 17 Exhibit Q, # 18 Exhibit R, # 19 Exhibit S, # 20 Exhibit T, # 21 Exhibit U, # 22 Exhibit V, # 23 Exhibit W, # 24 Exhibit X) (Attorney Christina N. Goodrich added to party Entropic Communications, LLC(pty:pla))(Goodrich, Christina) (Entered: 02/10/2023)	
2	02/10/2023	CIVIL COVER SHEET filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 02/10/2023)	
3	02/10/2023	Request for Clerk to Issue Summons on Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Summons to DISH Network, LLC, # 2 Proposed Summons to DISH Network Service, LLC, # 3 Proposed Summons to DISH Network California Service Corporation)(Goodrich, Christina) (Entered: 02/10/2023)	
4	02/10/2023	Certification and NOTICE of Interested Parties filed by Plaintiff Entropic Communications, LLC, (Goodrich, Christina) (Entered: 02/10/2023)	
5	02/10/2023	NOTICE of Related Case(s) filed by Plaintiff Entropic Communications, LLC. Related Case(s): 2:22-cv-07775-JWH-JEM; 2:22-cv-07959-JWH-JEM (Goodrich, Christina) (Entered: 02/10/2023)	
6	02/10/2023	REPORT ON THE FILING OF AN ACTION Regarding a Patent or a Trademark (Initial Notification) filed by Entropic Communications, LLC. (Goodrich, Christina) (Entered: 02/10/2023)	
7	02/13/2023	NOTICE OF ASSIGNMENT to District Judge Dolly M. Gee and Magistrate Judge Karen E. Scott. (ghap) (Entered: 02/13/2023)	
8	02/13/2023	NOTICE TO PARTIES OF COURT-DIRECTED ADR PROGRAM filed. (ghap) (Entered: 02/13/2023)	
9	02/13/2023	Notice to Counsel Re Consent to Proceed Before a United States Magistrate Judge. (ghap) (Entered: 02/13/2023)	

#	Date	Proceeding Text	Source
10	02/13/2023	21 DAY Summons Issued re Complaint (Attorney Civil Case Opening), 1 as to Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Summons for DISH Network, LLC, # 2 Summons for DISH Network Service, LLC, # 3 Summons for DISH Network California Service Corporation) (ghap) (Entered: 02/13/2023)	
11	02/15/2023	ORDER RE TRANSFER PURSUANT TO GENERAL ORDER 21-01-Related Case- filed. Related Case No: 2:22-cv-07775 JWH(JEMx). Case transferred from Judge Dolly M. Gee to Judge John W. Holcomb for all further proceedings. The case number will now reflect the initials of the transferee Judge 2:23-cv-01043 JHW(KESx). Signed by Judge John W. Holcomb (rn) (Entered: 02/15/2023)	
12	02/21/2023	ORDER TO SHOW CAUSE REGARDING CONSOLIDATION (IN CHAMBERS) by Judge John W. Holcomb. The Court ORDERS the parties to show cause why these three cases-Nos. 2:23-cv-01043-JWH-KES, 2:23-cv-01047-JWH-KES, and 2:23-cv-01048-JWH-KES, should not be consolidated for pretrial purposes in view of the overlap in subject matter. The parties are DIRECTED to file no later than March 10, 2023, a joint response detailing their collective or respective positions regarding pretrial consolidation. A hearing on this Order to Show Cause is SET for March 31, 2023, at 9:00 a.m. in Courtroom 9D of the Ronald Reagan Federal Building and U.S. Courthouse, 411 W. 4th Street, Santa Ana, California. (yl) (Entered: 02/22/2023)	
13	02/23/2023	STANDING ORDER by Judge John W. Holcomb. (cla) (Entered: 02/23/2023)	
14	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant DISH Network Corporation served on 2/16/2023, answer due 3/9/2023. Service of the Summons and Complaint were executed upon Trudy Desbiens, CSC Authorized Agent in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered: 02/23/2023)	
15	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant DISH Network LLC served on 2/16/2023, answer due 3/9/2023. Service of the Summons and Complaint were executed upon Trudy Desbiens, CSC Authorized Agent in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered: 02/23/2023)	
16	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant DISH Network Service, LLC served on 2/16/2023, answer due 3/9/2023. Service of the Summons and Complaint were executed upon Trudy Desbiens, CSC Authorized Agent in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered: 02/23/2023)	
17	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant DISH Network California Service Corporation served on 2/16/2023, answer due 3/9/2023. Service of the Summons and Complaint were executed upon Trudy Desbiens, CSC Authorized Agent in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered:	

#	Date	Proceeding Text	Source
		02/23/2023)	
18	03/06/2023	APPLICATION of Non-Resident Attorney Darlene F. Ghavimi to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-34906332) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 03/06/2023)	
19	03/06/2023	APPLICATION of Non-Resident Attorney James A. Shimota to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-34906340) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 03/06/2023)	
20	03/07/2023	NOTICE of Deficiency in Electronically Filed Pro Hac Vice Application RE: APPLICATION of Non-Resident Attorney Darlene F. Ghavimi to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-34906332) 18 . The following error(s) was/were found: Local Rule 83-2.1.3.3(d) Certificate of Good Standing not attached for every state court listed to which the applicant has been admitted. Other error(s) with document(s): Missing GSC from NJ. (lt) (Entered: 03/07/2023)	
21	03/08/2023	Joint STIPULATION Extending Time to Answer the complaint as to All Defendants, re Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC.(Goodrich, Christina) (Entered: 03/08/2023)	
22	03/08/2023	NOTICE of Appearance filed by attorney Kenneth Bridges on behalf of Plaintiff Entropic Communications, LLC (Attorney Kenneth Bridges added to party Entropic Communications, LLC(pty:pla))(Bridges, Kenneth) (Entered: 03/08/2023)	
23	03/08/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Darlene F. Ghavimi to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC 18 , APPLICATION of Non-Resident Attorney James A. Shimota to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC 19 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 03/08/2023)	
24	03/09/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Christopher S. Marchese counsel for Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. Adding Christopher S. Marchese as counsel of record for DISH Network Corporation; DISH Network L.L.C.; DISH Network Service, L.L.C.; and DISH Network California Service Corporation for the reason indicated in the G-123 Notice. Filed by Defendants DISH Network Corporation; DISH Netword L.L.C.; DISH Network Service, L.L.C.; and DISH Network California Service Corporation. (Attorney Christopher S. Marchese added to party DISH Network California Service Corporation(pty:dft), Attorney Christopher S. Marchese added to party DISH Network Corporation(pty:dft), Attorney Christopher S. Marchese added to party DISH Network LLC(pty:dft), Attorney Christopher S. Marchese added to party DISH Network Service, LLC(pty:dft))(Marchese, Christopher) (Entered: 03/09/2023)	
25	03/10/2023	Notice of Appearance or Withdrawal of Counsel: for attorney David M. Barkan counsel for Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. Adding David M. Barkan as counsel of record for DISH Network Corporation, DISH Network	

#	Date	Proceeding Text	Source
		L.L.C., DISH Network Service, L.L.C., and DISH Network California Service Corporation for the reason indicated in the G-123 Notice. Filed by Defendants DISH Network Corporation, DISH Network L.L.C., DISH Network Service, L.L.C., and DISH Network California Service Corporation. (Attorney David M. Barkan added to party DISH Network California Service Corporation(pty:dft), Attorney David M. Barkan added to party DISH Network Corporation(pty:dft), Attorney David M. Barkan added to party DISH Network LLC(pty:dft), Attorney David M. Barkan added to party DISH Network Service, LLC(pty:dft))(Barkan, David) (Entered: 03/10/2023)	
26	03/10/2023	RESPONSE filed by Plaintiff Entropic Communications, LLCto Minutes of In Chambers Order/Directive - no proceeding held,,, Set/Reset Hearing., 12 - JOINT RESPONSE TO OSC RE CONSOLIDATION (Goodrich, Christina) (Entered: 03/10/2023)	
27	03/14/2023	APPLICATION of Non-Resident Attorney Adam R. Shartzer to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-34954579) filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Proposed Order) (Marchese, Christopher) (Entered: 03/14/2023)	
28	03/14/2023	APPLICATION of Non-Resident Attorney Michael J. Ballanco to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-34954647) filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Proposed Order) (Marchese, Christopher) (Entered: 03/14/2023)	
29	03/15/2023	NOTICE of Deficiency in Electronically Filed Pro Hac Vice Application RE: APPLICATION of Non-Resident Attorney Adam R. Shartzer to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fee P 27 , APPLICATION of Non-Resident Attorney Michael J. Ballanco to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fe 28 . The following error(s) was/were found: Proposed Order has not been flattened and is causing a corruption with the filing. (lt) (Entered: 03/15/2023)	
30	03/21/2023	Joint STIPULATION to Continue Hearing on Order to Show Cause re Consolidation from March 31, 2023 to April 21, 2023 Re: Minutes of In Chambers Order/Directive - no proceeding held,,, Set/Reset Hearing,, 12 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order on Joint Stipulation to Request Continuance)(Goodrich, Christina) (Entered: 03/21/2023)	
31	03/23/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Adam R. Shartzer to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC 27 , APPLICATION of Non-Resident Attorney Michael J. Ballanco to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC 28 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT	

#	Date	Proceeding Text	Source
		ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 03/23/2023)	
32	03/23/2023	ORDER GRANTING JOINT STIPULATION TO REQUEST CONTINUANCE OF HEARING ON ORDER TO SHOW CAUSE REGARDING CONSOLIDATION by Judge John W. Holcomb, re Stipulation to Continue 30 . it is hereby ORDERED that the March 31, 2023, hearing on the Order to Show Cause Regarding Consolidation is CONTINUED from March 31, 2023, to April 21, 2023, at 9:00 a.m. IT IS SO ORDERED. (et) (Entered: 03/23/2023)	
33	03/24/2023	Joint STIPULATION Extending Time to Answer the complaint as to All Defendants, re Complaint (Attorney Civil Case Opening),, 1 filed by Defendants DISH Network Service, LLC, DISH Network LLC, DISH Network Corporation, DISH Network California Service Corporation. (Attachments: # 1 Proposed Order)(Marchese, Christopher) (Entered: 03/24/2023)	
34	03/24/2023	APPLICATION of Non-Resident Attorney Ruffin B. Cordell to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35019601) filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Proposed Order) (Marchese, Christopher) (Entered: 03/24/2023)	
35	03/27/2023	ORDER GRANTING JOINT STIPULATION FOR AN ADDITIONAL 30-DAY EXTENSION OF TIME FOR DEFENDANTS TO ANSWER OR OTHERWISE RESPOND TO PLAINTIFF'S COMPLAINT by Judge John W. Holcomb 33 . Plaintiff Entropic Communications, LLC and Defendants DISH Network Corporation, DISH Network L.L.C., Dish Network Service L.L.C., and DISH Network California Service Corporation (Defendants) have filed a Joint Stipulation for an Additional 30-Day Extension of Time for Defendants to Answer or Otherwise Respond to Plaintiffs Complaint. Having considered the Parties Joint Stipulation, and for good cause shown, it is hereby ORDERED that the deadline for Defendants to answer or otherwise respond to Plaintiff's Complaint is EXTENDED up to and including May 8, 2023. IT IS SO ORDERED. (yl) (Entered: 03/28/2023)	
36	03/28/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Ruffin B. Cordell to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC 34 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 03/28/2023)	
37	03/28/2023	APPLICATION of Non-Resident Attorney Richard A. Sterba to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35037195) filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Proposed Order) (Marchese, Christopher) (Entered: 03/28/2023)	
38	04/03/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Richard A. Sterba to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service,	

#	Date	Proceeding Text	Source
		LLC 37 by Judge John W. Holcomb THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 04/03/2023)	
39	04/03/2023	MINUTE ORDER TO SHOW CAUSE REGARDING APPOINTMENT OF SPECIAL MASTER REGARDING DISCOVERY DISPUTES (IN CHAMBERS) by Judge John W. Holcomb. These cases will likely generate a substantial number of discovery disputes. For that reason, the Court is considering appointing a Special Master to assist the Court in managing and deciding discovery matters, and, therefore, it issues this order to show cause (OSC). For the foregoing reasons, the Court hereby ORDERS as follows: 1. No later than April 14, 2023, the parties are DIRECTED to respond to this OSC by each filing a statement either consenting to the appointment of a Special Master for discovery purposes or showing cause why a Special Master should not be appointed. 2. A hearing on this OSC is SET for April 21, 2023, at 9:00 a.m. See minute order for details. (lom) Modified on 4/4/2023 (lom). (Entered: 04/04/2023)	
40	04/04/2023	APPLICATION of Non-Resident Attorney Ralph A. Phillips to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35077285) filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Proposed Order) (Marchese, Christopher) (Entered: 04/04/2023)	
41	04/11/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Ralph A. Phillips to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC 40 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 04/11/2023)	
42	04/11/2023	APPLICATION of Non-Resident Attorney Ashley A. Bolt to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35118362) filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Proposed Order) (Marchese, Christopher) (Entered: 04/11/2023)	
43	04/14/2023	STATEMENT JOINTLY SUBMITTED BY THE PARTIES IN RESPONSE TO ORDER TO SHOW CAUSE RE APPOINTMENT OF A SPECIAL MASTER filed by Plaintiff Entropic Communications, LLC re: Minutes of In Chambers Order/Directive - no proceeding held,,,, Set/Reset Hearing,,, 39 . (Goodrich, Christina) (Entered: 04/14/2023)	
44	04/17/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Ashley A. Bolt to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC 42 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 04/17/2023)	
45	04/17/2023	Notice OF INTERESTED PARTIES (LOCAL RULE 7.1-1) (AMENDED) filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 04/17/2023)	

#	Date	Proceeding Text	Source
46	04/18/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Peter E Soskin counsel for Plaintiff Entropic Communications, LLC. Adding Peter Soskin as counsel of record for Entropic Communications, LLC for the reason indicated in the G-123 Notice. Filed by Plaintiff Entropic Communications, LLC. (Attorney Peter E Soskin added to party Entropic Communications, LLC(pty:pla))(Soskin, Peter) (Entered: 04/18/2023)	
47	04/21/2023	MINUTE ORDER OF HEARING RE: ORDER TO SHOW CAUSE RE CONSOLIDATION held before Judge John W. Holcomb. Counsel state their appearances. The Court confers with counsel regarding the posture of the case. For the reasons stated on the record, the parties are DIRECTED to meet and confer regarding a proposed order pertaining to consolidation and the appointment of Special Master. IT IS SO ORDERED. Court Reporter: Debbie Hino-Span. (yl) (Entered: 04/24/2023)	
48	04/24/2023	TRANSCRIPT ORDER as to Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC for Court Reporter. Court will contact Katherine Root at root@fr.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Marchese, Christopher) (Entered: 04/24/2023)	
49	05/08/2023	NOTICE OF MOTION AND MOTION to Dismiss Case as to the DISH Colorado Defendants for Improper Venue under Rule 12(b)(3) filed by Defendants DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. Motion set for hearing on 6/9/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1 Memorandum of Points and Authorities, # 2 Declaration of Christopher S. Marchese, # 3 Exhibit 1, # 4 Exhibit 2, # 5 Exhibit 3, # 6 Declaration of Dan Minnick, # 7 Proposed Order) (Marchese, Christopher) (Entered: 05/08/2023)	
50	05/08/2023	NOTICE OF MOTION AND MOTION to Dismiss Counts VI and X of the Complaint with Prejudice Under Rule 12(b)(6) and find US Patent Nos. 10,257,566 and 8,228,910 Invalid under 35 U.S.C. 101 filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. Motion set for hearing on 6/9/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1 Memorandum of Points and Authorities, # 2 Proposed Order) (Marchese, Christopher) (Entered: 05/08/2023)	
51	05/12/2023	Joint STIPULATION to Continue Hearing on Motion to Dismiss for Improper Venue from June 9, 2023 to August 25, 2023 Re: NOTICE OF MOTION AND MOTION to Dismiss Case as to the DISH Colorado Defendants for Improper Venue under Rule 12(b)(3) 49 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order on Joint Stipulation Re: Venue Discovery and to Request Continuance of Hearing On Motion to Dismiss for Improper Venue)(Meggs, Connor) (Entered: 05/12/2023)	
52	05/14/2023	TRANSCRIPT for proceedings held on 4/21/2023 at 8:59 a.m. ****Transcript may be viewed at the court public terminal or purchased through Court Reporter DEBBIE HINO-SPAAN at: WEBSITE www.debbiehinospaan.com; E-mail, dhinospaan@yahoo.com before the deadline for Release of Transcript restriction. After that date, it may be obtained from the Court Reporter or through PACER. Additional formats of the transcript (ASCII, Condensed, and Word Indexing/Concordance) are also available to be purchased at any time through the Court Reporter. Notice of Intent to Redact due within 7 days of this date.** Redaction Request due 6/5/2023. Redacted Transcript	

#	Date	Proceeding Text	Source
		Deadline set for 6/14/2023. Release of Transcript Restriction set for 8/14/2023. (dhs) (Entered: 05/14/2023)	
53	05/14/2023	NOTICE OF FILING TRANSCRIPT filed for proceedings 4/21/2023 at 8:59 a.m. re Transcript 52 THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (dhs) TEXT ONLY ENTRY (Entered: 05/14/2023)	
56	05/16/2023	ORDER GRANTING JOINT STIPULATION by Judge John W. Holcomb. The Joint Stipulation is GRANTED. Entropic is permitted to conduct venue discovery, consisting of, at most, two depositions of the Federal Rules of Civil Procedure, one of which will be of the declarant in the DISH Colorado Motion. The normal and customary Federal Rules of Civil Procedure covering discovery shall apply. If Entropic provides a declaration in support of its opposition to the Motion, then DISH Colorado shall be permitted to conduct venue discovery related to the declaration, and the Parties agree that in such event they will negotiate a further extension to the schedule as warranted. The Parties' venue discovery will not count against the discovery limits as set forth under the Federal Rules of Civil Procedure or any future discovery order of the Court. The hearing on the DISH Colorado Motion [ECF No. 49] is CONTINUED from June 9, 2023, to August 25, 2023, at 9:00 a.m. Consistent with the proposed new hearing date, Plaintiffs deadline to oppose the DISH Colorado Motion is CONTINUED to July 28, 2023, and DISH Colorados deadline to file a reply is CONTINUED to August 11, 2023. IT IS SO ORDERED. (See document for further details) (yl) (Entered: 05/17/2023)	
54	05/17/2023	ORDER SETTING SCHEDULING CONFERENCE by Judge John W. Holcomb. Scheduling Conference set for 6/30/2023 at 9:00 AM before Judge John W. Holcomb. (cla) (Entered: 05/17/2023)	
55	05/17/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court CONTINUES the hearing on Defendant's Motion to Dismiss [ECF No. 50] from June 9, 2023, at 9:00 a.m., to June 9, 2023, at 11:00 a.m. ***TIME CHANGE ONLY*** Additionally, the Court SETS a Status Conference on June 9, 2023, at 11:00 a.m. The parties are DIRECTED to file a Joint Status Report no later than Friday, May 26, 2023, that includes an update regarding the appointment of a Special Master and case consolidation. The parties are DIRECTEDto appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 05/17/2023)	
57	05/19/2023	Plaintiff Entropic Communications' Opposition to Defendants' Rule 12(b)(6) Motion to Dismiss Under 35 U.S.C. 101 Opposition re: NOTICE OF MOTION AND MOTION to Dismiss Counts VI and X of the Complaint with Prejudice Under Rule 12(b)(6) and find US Patent Nos. 10,257,566 and 8,228,910 Invalid under 35 U.S.C. 101 50 filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 05/19/2023)	
58	05/23/2023	Notice of Errata to Entropic's Opposition to DISH Rule 12(b)(6) Motion to Dismiss filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Entropic's (Corrected) Opposition to DISH Rule 12(b)(6) Motion to Dismiss)(Goodrich, Christina) (Entered: 05/23/2023)	
59	05/26/2023	STATUS REPORT re Consolidation and Appointment of Special Master Prepared Jointly by All Parties filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered:	

#	Date	Proceeding Text	Source
		05/26/2023)	
60	05/26/2023	REPLY in support NOTICE OF MOTION AND MOTION to Dismiss Counts VI and X of the Complaint with Prejudice Under Rule 12(b)(6) and find US Patent Nos. 10,257,566 and 8,228,910 Invalid under 35 U.S.C. 101 50 filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Marchese, Christopher) (Entered: 05/26/2023)	
61	05/26/2023	APPLICATION of Non-Resident Attorney George C. Summerfield to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35393506) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 05/26/2023)	
62	05/30/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court CONTINUES the hearing on Defendant's Motion to Dismiss [ECF No. 50] and Status Conference from June 9, 2023, at 11:00 a.m., to June 9, 2023, at 9:00 a.m. ***TIME CHANGE ONLY*** The parties are DIRECTED to appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 05/30/2023)	
63	05/31/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney George C. Summerfield to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC 61 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 05/31/2023)	
64	06/02/2023	APPLICATION of Non-Resident Attorney Aaron Pirouznia to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35427031) filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Proposed Order) (Marchese, Christopher) (Entered: 06/02/2023)	
65	06/05/2023	Joint STIPULATION for Order Request Continuance of Scheduling Conference Date filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Proposed Order)(Marchese, Christopher) (Entered: 06/05/2023)	
66	06/06/2023	ORDER RE SUPPLEMENTAL BRIEFING ON DEFENDANTS' RILE 12(b)(6) MOTION TO DISMISS UNDER 356 USC SECTION 101 50 (IN CHAMBERS) by Judge John W. Holcomb. For those reasons, it is hereby ORDERED as follows: Entropic is DIRECTED to file a supplemental brief of no more than 15 pages on or before June 16, 2023. In its supplemental brief, Entropic shall: a. propose constructions for the limitations "perform an admission procedure"; "probe a communication link" and/or "adapt transmission parameters"; and "packet aggregation module" and/or forming an aggregate packet; and b. explain how the proposed constructions affect the 101 eligibility analysis. 2. DISH is DIRECTED to file a responsive brief of no more than 15 pages on or before June 23, 2023. In its responsive brief, DISH shall provide arguments in support of its position that Entropic's constructions do not change the 101 eligibility analysis. DISH	

#	Date	Proceeding Text	Source
		shall not propose counter-constructions; instead, the Court will accept Entropic's proposed constructions at the motion - to dismissstage. See Nat. Alternatives Intl, Inc. v. Creative Compounds, LLC, 918 F.3d1338, 1343 (Fed. Cir. 2019).3. The hearing on DISH's Motion is CONTINUED to June 30, 2023, at 9:00 a.m. IT IS SO ORDERED. (SEE DOCUMENT FOR FURTHER DETAILS) (yl) (Entered: 06/06/2023)	
67	06/07/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Aaron Pirouznia to Appear Pro Hac Vice on behalf of Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC 64 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 06/07/2023)	
68	06/08/2023	Joint STIPULATION for Order to Appoint Special Master filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Affidavit of David M. Keyzer Pursuant to Fed. R. Civ. P. 53(b)(3)(A), # 2 Proposed Order)(Goodrich, Christina) (Entered: 06/08/2023)	
69	06/09/2023	HEARING RE: STATUS CONFERENCE held before Judge John W. Holcomb: The hearing on the Defendants' Motion to Dismiss Counts VI and X of the Complaint [ECF No. 50] is CONTINUED from June 30, 2023, to July 21, 2023, at 11:00 a.m. The briefing schedule for Defendants motion is EXTENDED as follows: The deadline for Plaintiff to file its supplemental brief is EXTENDED to June 26, 2023. The deadline for Defendant to file its responsive brief is EXTENDED to July 7, 2023. The parties' Joint Stipulation for Continuance of the Scheduling Conference [ECF No. 65] is APPROVED. The Scheduling Conference is CONTINUED to July 21, 2023, at 11:00 a.m. IT IS SO ORDERED. Court Reporter: Debbie Hino-Span. (yl) (Entered: 06/13/2023)	
70	06/13/2023	TRANSCRIPT ORDER as to Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC for Court Reporter. Court will contact Katherine Root at root@fr.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Marchese, Christopher) (Entered: 06/13/2023)	
71	06/26/2023	Supplemental Brief in Support of Opposition re: NOTICE OF MOTION AND MOTION to Dismiss Counts VI and X of the Complaint with Prejudice Under Rule 12(b)(6) and find US Patent Nos. 10,257,566 and 8,228,910 Invalid under 35 U.S.C. 101 50 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Declaration of George Summerfield, # 2 Exhibit A, # 3 Exhibit B, # 4 Exhibit C, # 5 Exhibit D, # 6 Exhibit E, # 7 Exhibit F, # 8 Exhibit G)(Goodrich, Christina) (Entered: 06/26/2023)	
72	07/05/2023	TRANSCRIPT for proceedings held on 6/9/2023 at 9:05 a.m. ****Transcript may be viewed at the court public terminal or purchased through Court Reporter DEBBIE HINO-SPAAN at: WEBSITE www.debbiehinospaan.com; E-mail, dhinospaan@yahoo.com before the deadline for Release of Transcript restriction. After that date, it may be obtained from the Court Reporter or through PACER. Additional formats of the transcript (ASCII, Condensed, and Word Indexing/Concordance) are also available to be purchased at any time through the Court Reporter. Notice of Intent to Redact due within 7 days of this date.** Redaction Request due 7/26/2023. Redacted Transcript Deadline set for 8/7/2023. Release of Transcript Restriction set for 10/3/2023. (dhs) (Entered: 07/05/2023)	

#	Date	Proceeding Text	Source
73	07/05/2023	NOTICE OF FILING TRANSCRIPT filed for proceedings 6/9/2023 at 9:05 a.m. re Transcript 72 THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (dhs) TEXT ONLY ENTRY (Entered: 07/05/2023)	
74	07/05/2023	ORDER APPOINTING DAVID KEYZER, ESQ. AS SPECIAL MASTER FOR DISCOVERY PURPOSES by Judge John W. Holcomb, re Stipulation 68 : Pursuant to Fed. R. Civ. P. 53(b)(3)(A), and good cause shown, it is hereby ORDERED as follows: 1. Appointment: The Court determines that the appointment of David Keyzer, Esq. (the "Special Master") is appropriate under Rule 53(a)(1)(C) of the Federal Rules of Civil Procedure to address pretrial matters that cannot be effectively and timely addressed by an available district judge or magistrate judge in this district. (see document for further details) (bm) (Entered: 07/05/2023)	
75	07/07/2023	RESPONSIVE BRIEF to Plaintiff's Supplemental Proposed Constrictions Regarding Motion to Dismiss 35 U.S.C. Section 101 Eligibility Analysis re NOTICE OF MOTION AND MOTION to Dismiss Counts VI and X of the Complaint with Prejudice Under Rule 12(b)(6) and find US Patent Nos. 10,257,566 and 8,228,910 Invalid under 35 U.S.C. 101 50 filed by Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Marchese, Christopher) (Entered: 07/07/2023)	
76	07/07/2023	JOINT REPORT Rule 26(f) Discovery Plan ; estimated length of trial 6 to 8 days, filed by Plaintiff Entropic Communications, LLC.. (Goodrich, Christina) (Entered: 07/07/2023)	
77	07/10/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court CONTINUES the hearing on Defendant's Motion to Dismiss [ECF No. 50]and the Scheduling Conference from Friday, July 21, 2023, at 9:00 a.m., to Wednesday, August 9, 2023, at 10:00 a.m. The parties are DIRECTED to appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 07/10/2023)	
78	07/12/2023	Joint STIPULATION to Continue Hearing on DISH's Motion to Dismiss from August 25, 2023 to September 15, 2023 Re: Order,,,,, 56 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Meggs, Connor) (Entered: 07/12/2023)	
79	07/13/2023	(IN CHAMBERS) ORDER by Judge John W. Holcomb: The Court has reviewed the parties' Stipulation [ECF No. 78], and it is hereby APPROVED. (1) The hearing on DISH Colorado's Motion to Dismiss for Improper Venue (the "Motion") [ECF No. 49] is CONTINUED from August 25, 2023, to September 15, 2023. (2) Consistent with the proposed new hearing date, Entropic's deadline to oppose the Motion is CONTINUED to August 18, 2023. (3) DISH Colorado's deadline to file a reply is CONTINUED to September 1, 2023. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 07/13/2023)	
80	07/24/2023	Notice of Special Master Order No. SM-1 filed by Special Master David M Keyzer, pursuant to July 5, 2023 appointment Order, setting special master preliminary conference for July 26, 2023, at 12:00 P.M., by videoconference (Attachments: # 1 Special Master Order No. SM-1)(Keyzer, David) (Entered: 07/24/2023)	

#	Date	Proceeding Text	Source
81	07/26/2023	Notice of Special Master Minutes filed by Special Master David M Keyzer. minutes of preliminary conference conducted by the special master on July 26, 2023, pursuant to the Court's July 5, 2023 Order appointing special master (Attachments: # 1 Special Master Minutes)(Keyzer, David) (Entered: 07/26/2023)	
82	08/01/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Cassidy Young counsel for Plaintiff Entropic Communications, LLC. Adding Cassidy Young as counsel of record for Plaintiff Entropic Communications, LLC for the reason indicated in the G-123 Notice. Filed by Plaintiff Entropic Communications, LLC. (Attorney Cassidy Young added to party Entropic Communications, LLC(pty:pla))(Young, Cassidy) (Entered: 08/01/2023)	
83	08/03/2023	Joint STIPULATION to Continue Hearing On DISH's Motion to Dismiss from September 15, 2023 to October 6, 2023 Re: Order,,,,, 56 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Goodrich, Christina) (Entered: 08/03/2023)	
84	08/04/2023	(IN CHAMBERS) ORDER by Judge John W. Holcomb: The Court has reviewed the parties' Stipulation [ECF No. 83], and it is hereby APPROVED. (1) The hearing on DISH Colorado's Motion to Dismiss for Improper Venue (the "Motion") [ECF No. 49] is CONTINUED from September 15, 2023, to October 6, 2023, at 9:00 a.m.; (2) Entropic's deadline to oppose the Motion is CONTINUED to September 5, 2023; and (3) DISH Colorado's deadline to file a reply is CONTINUED to September 22, 2023. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 08/04/2023)	
85	08/04/2023	Notice of Special Master Order No. SM-2 filed by Special Master David M Keyzer. regarding Discovery Dispute Resolution Procedures (Attachments: # 1 Special Master Order No. SM-2 re Discovery Dispute Resolution Procedures)(Keyzer, David) (Entered: 08/04/2023)	
86	08/09/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Taylor Caldwell Burgener counsel for Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. Adding Taylor C. Burgener as counsel of record for Defendants DISH Network Corporation, et al. for the reason indicated in the G-123 Notice. Filed by Defendants DISH Network Corporation, et al.. (Attorney Taylor Caldwell Burgener added to party DISH Network California Service Corporation(pty:dft), Attorney Taylor Caldwell Burgener added to party DISH Network Corporation(pty:dft), Attorney Taylor Caldwell Burgener added to party DISH Network LLC(pty:dft), Attorney Taylor Caldwell Burgener added to party DISH Network Service, LLC(pty:dft))(Burgener, Taylor) (Entered: 08/09/2023)	
87	08/09/2023	NOTICE OF LODGING filed Slides Presented at August 9, 2023 Hearing re Notice (Other), 58 (Young, Cassidy) (Entered: 08/09/2023)	
91	08/09/2023	HEARING RE: MOTION OF DEFENDANT DISH NETWORK CORPORATIONS' TO DISMISS COUNTS VI AND X OF THE COMPLAINT [ECF No. 50]; SCHEDULING CONFERENCE held before Judge John W. Holcomb. Counsel state their appearances. The Court confers with counsel regarding the Courts Tentative Order and hears oral argument. For the reasons stated on the record, the Court takes the motion [ECF No. 50] under submission. Also for the reasons stated in open court, it is hereby ORDERED as follows: Counsel are DIRECTED to meet and confer forthwith regarding the Claim Construction Schedule. 2.	

#	Date	Proceeding Text	Source
		The parties are DIRECTED to file no later than August 18, 2023, a Stipulation and Proposed Order setting a Claim Construction Schedule. IT IS SO ORDERED. Court Reporter: Miriam Baird. (yl) (Entered: 08/11/2023)	
92	08/09/2023	HEARING RE: MOTION OF DEFENDANT DISH NETWORK CORPORATIONS TO DISMISS COUNTS VI AND X OF THE COMPLAINT [ECF No. 50]; SCHEDULING CONFERENCE Hearing held before Judge John W. Holcomb. For the reasons stated on the record, the Court takes the motion [ECF No. 50] under submission. Also for the reasons stated in open court, it is hereby ORDERED as follows: Counsel are DIRECTED to meet and confer forthwith regarding the Claim Construction Schedule. The parties are DIRECTED to file no later than August 18, 2023, a Stipulation and Proposed Order setting a Claim Construction Schedule. IT IS SO ORDERED Court Reporter: Miriam Baird. (yl) (Entered: 08/11/2023)	
88	08/10/2023	NOTICE OF LODGING filed Defendants' Demonstrative Slides from the August 9, 2023 Hearing re NOTICE OF MOTION AND MOTION to Dismiss Counts VI and X of the Complaint with Prejudice Under Rule 12(b)(6) and find US Patent Nos. 10,257,566 and 8,228,910 Invalid under 35 U.S.C. 101 50 (Attachments: # 1 Defendants' Demonstrative Slides)(Marchese, Christopher) (Entered: 08/10/2023)	
89	08/10/2023	TRANSCRIPT ORDER as to Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC for Court Reporter. Court will contact Katherine Root at root@fr.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Marchese, Christopher) (Entered: 08/10/2023)	
90	08/10/2023	TRANSCRIPT ORDER as to Plaintiff Entropic Communications, LLC for Court Reporter. Court will contact Cassidy T. Young at cassidy.young@klgates.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Young, Cassidy) (Entered: 08/10/2023)	
93	08/18/2023	TRANSCRIPT for proceedings held on 8/9/23. Court Reporter/Electronic Court Recorder: miriam baird, phone number mvb11893@aol.com. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Electronic Court Recorder before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER. Notice of Intent to Redact due within 7 days of this date. Redaction Request due 9/8/2023. Redacted Transcript Deadline set for 9/18/2023. Release of Transcript Restriction set for 11/16/2023. (Baird, Miriam) (Entered: 08/18/2023)	
94	08/18/2023	NOTICE OF FILING TRANSCRIPT filed for proceedings 8/9/23 re Transcript 93 THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (Baird, Miriam) TEXT ONLY ENTRY (Entered: 08/18/2023)	
95	08/18/2023	STIPULATION for Order Setting Claim Construction Schedule filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Young, Cassidy) (Entered: 08/18/2023)	
96	08/21/2023	Notice of Filing of Preliminary Amendment to 910 Patent filed by Plaintiff Entropic Communications, LLC re: Notice (Other), 58 (Attachments: # 1 Exhibit A)(Young, Cassidy) (Entered: 08/21/2023)	
97	08/21/2023	ORDER by Judge John W. Holcomb GRANTING Stipulation Setting Claim Construction Schedule 95 as follows: Claim	

#	Date	Proceeding Text	Source
		Construction Hearing set for 9/17/2024 at 10:00 AM. (See document for further information). (jp) (Entered: 08/22/2023)	
98	09/05/2023	MEMORANDUM in Opposition to NOTICE OF MOTION AND MOTION to Dismiss Case as to the DISH Colorado Defendants for Improper Venue under Rule 12(b)(3) 49 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Declaration of Christina N. Goodrich, # 2 Exhibit A, # 3 Exhibit B, # 4 Exhibit C, # 5 Exhibit D, # 6 Exhibit E, # 7 Exhibit F, # 8 Exhibit G, # 9 Exhibit H, # 10 Exhibit I, # 11 Exhibit J, # 12 Exhibit K, # 13 Exhibit L, # 14 Exhibit M, # 15 Exhibit N, # 16 Exhibit O, # 17 Exhibit P, # 18 Exhibit Q, # 19 Exhibit R, # 20 Exhibit S, # 21 Exhibit T, # 22 Exhibit U, # 23 Exhibit V, # 24 Exhibit W, # 25 Exhibit X, # 26 Exhibit Y, # 27 Exhibit Z, # 28 Exhibit AA, # 29 Exhibit BB, # 30 Exhibit CC, # 31 Exhibit DD, # 32 Exhibit EE, # 33 Exhibit FF, # 34 Exhibit GG)(Young, Cassidy) (Entered: 09/05/2023)	
99	09/05/2023	APPLICATION to file document Opposition to Motion to Dismiss under seal filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order, # 2 Redacted Document Memorandum in Opposition to Motion to Dismiss, # 3 Redacted Document Exhibit C, # 4 Redacted Document Exhibit D, # 5 Redacted Document Exhibit H, # 6 Redacted Document Exhibit J, # 7 Redacted Document Exhibit K, # 8 Redacted Document Exhibit L, # 9 Redacted Document Exhibit M, # 10 Redacted Document Exhibit N, # 11 Redacted Document Exhibit O, # 12 Redacted Document Exhibit Y, # 13 Redacted Document Exhibit Z, # 14 Redacted Document Exhibit BB, # 15 Redacted Document Exhibit CC, # 16 Redacted Document Exhibit DD, # 17 Redacted Document Exhibit GG)(Young, Cassidy) (Entered: 09/05/2023)	
100	09/05/2023	SEALED DECLARATION IN SUPPORT OF APPLICATION to file document Opposition to Motion to Dismiss under seal 99 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Unredacted Document Memorandum in Opposition to Motion to Dismiss, # 2 Unredacted Document Exhibit C, # 3 Unredacted Document Exhibit D, # 4 Unredacted Document Exhibit H, # 5 Unredacted Document Exhibit J, # 6 Unredacted Document Exhibit K, # 7 Unredacted Document Exhibit L, # 8 Unredacted Document Exhibit M, # 9 Unredacted Document Exhibit N, # 10 Unredacted Document Exhibit O, # 11 Unredacted Document Exhibit Y, # 12 Unredacted Document Exhibit Z, # 13 Unredacted Document Exhibit BB, # 14 Unredacted Document Exhibit CC, # 15 Unredacted Document Exhibit DD, # 16 Unredacted Document Exhibit GG, # 17 Proof of Service)(Young, Cassidy) (Entered: 09/05/2023)	
101	09/06/2023	Notice of Appearance or Withdrawal of Counsel: for attorney John-Paul Fryckman counsel for Defendants DISH Network California Service Corporation, DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. Adding John-Paul Fryckman as counsel of record for Defendants DISH Network Corporation, et al. for the reason indicated in the G-123 Notice. Filed by Defendants DISH Network Corporation, et al.. (Attorney John-Paul Fryckman added to party DISH Network California Service Corporation(pty:dft), Attorney John-Paul Fryckman added to party DISH Network Corporation(pty:dft), Attorney John-Paul Fryckman added to party DISH Network LLC(pty:dft), Attorney John-Paul Fryckman added to party DISH Network Service, LLC(pty:dft))(Fryckman, John-Paul) (Entered: 09/06/2023)	
102	09/06/2023	ORDER GRANTING ENTROPIC'S APPLICATION TO FILE OPPOSITION TO MOTION TO DISMISS UNDER SEAL 99 by Judge John W. Holcomb. Having considered Plaintiff Entropic Communications, LLCs ("Entropic" or "Plaintiff") Application for an	

#	Date	Proceeding Text	Source
		order to file Entropic's Opposition to DISH's Motion to Dismiss under seal, which discusses the contents of documents designated as confidential and/or attorneys eyes only by DISH, and a sufficient showing having been made under Local Rule 79-5 to permit filing under seal, it is hereby ORDERED as follows: The Application is GRANTED. Entropic shall file under seal the unredacted documents as follows: (See document for further details) (yl) (Entered: 09/07/2023)	
103	09/06/2023	ORDER ON DISH DEFENDANTS' MOTION TO DISMISS UNDER 35 U.S.C. 101 [ECF No. 50] by Judge John W. Holcomb. For the foregoing reasons, the Court hereby ORDERS as follows: DISH's instant Motion to dismiss is GRANTED. Counts VI (infringement of the '566 Patent) and X (infringement of the '910 Patent) of the Complaint are DISMISSED without leave to amend. IT IS SO ORDERED. (See document for further details) (yl) (Entered: 09/07/2023)	
104	09/12/2023	NOTICE of Appearance filed by attorney Matthew C Bernstein on behalf of Defendants DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Attorney Matthew C Bernstein added to party DISH Network Corporation(pty:dft), Attorney Matthew C Bernstein added to party DISH Network LLC(pty:dft), Attorney Matthew C Bernstein added to party DISH Network Service, LLC(pty:dft))(Bernstein, Matthew) (Entered: 09/12/2023)	
105	09/12/2023	APPLICATION of Non-Resident Attorney Amanda Tessar to Appear Pro Hac Vice on behalf of Defendants DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-36025131) filed by Defendant DISH Network Corporation, DISH Network LLC, DISH Network Service, LLC. (Attachments: # 1 Proposed Order) (Bernstein, Matthew) (Entered: 09/12/2023)	

Patents

Number	Title	Issued	Class	Subclass
7,594,249	Network interface device and broadband local area network using coaxial cable	09/22/2009	725	78
7,889,759	Broadband cable network utilizing common bit-loading	02/15/2011	370	465
8,228,910	Aggregating network packets for transmission to a destination node	07/24/2012	370	389
8,320,566	Method and apparatus for performing constellation scrambling in a multimedia home network	11/27/2012	380	268
8,363,681	Method and apparatus for using ranging measurements in a multimedia home network	01/29/2013	370	509
9,838,213	Parameterized quality of service architecture in a network	12/05/2017	1	1
10,257,566	Broadband local area network	04/09/2019	1	1
10,432,422	Parameterized quality of service architecture in a network	10/01/2019	1	1

Copyright © LexisNexis CourtLink, Inc. All Rights Reserved.
*** THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY ***

End of Document

LexisNexis

User Name: Manuel Saldana
Date and Time: Wednesday, September 13, 2023 9:11:00AM EDT
Job Number: 205675414

Documents (2)

1. *Patent No. 7,594,249 Issued on Sept. 22, Assigned to Entropic Communications for Network Interface Device (California Inventors)*
   Client/Matter: -None-
   Search Terms: 7,594,249
   Search Type: Natural Language
   Narrowed by:

Content Type	Narrowed by
News	-None-

2. *Patent No. 7,594,249 Issued on Sept. 22, Assigned to Entropic Communications for Network Interface Device (California Inventors)*
   Client/Matter: -None-
   Search Terms: 7,594,249
   Search Type: Natural Language
   Narrowed by:

Content Type	Narrowed by
News	-None-

Patent No. 7,594,249 Issued on Sept. 22, Assigned to Entropic Communications for Network Interface Device (California Inventors)

US Fed News

September 28, 2009 Monday 2:56 PM EST

Copyright 2009 HT Media Ltd. All Rights Reserved

Length: 191 words

Dateline: ALEXANDRIA, Va.

Body

ALEXANDRIA, Va., Sept. 28 -- Itzhak Gurantz, Anton Monk, Brett Bernath and Magnus Berggren, all from San Diego, and Ladd ElWardani of La Jolla, Calif., have developed a network interface device. The inventors were issued U.S. Patent No. ***7,594,249*** on Sept. 22.

The patent has been assigned to Entropic Communications Inc., San Diego.

According to the abstract released by the U.S. Patent & Trademark Office: "A local area network uses coaxial cable wiring for interconnection of terminal devices. A frequency selective network interface device is placed at the building point of entry or another point in the wiring to reflect network signals transmitted by terminal devices back into the building distribution to be received by other terminal devices. By reflecting network upstream signals back into the building as downstream signals, the network interface provides a path for terminal devices to transmit to and receive from other terminal devices."

The original application was filed on July 21, 2001. For more information about US Fed News contract awards please contact: Sarabjit Jagirdar, US Fed News, Email:- *htsyndication@hindustantimes.com*

For any query with respect to this article or any other content requirement, please contact Editor at *htsyndication@hindustantimes.com*

Load-Date: December 10, 2009

End of Document

Patent No. 7,594,249 Issued on Sept. 22, Assigned to Entropic Communications for Network Interface Device (California Inventors)

US Fed News

September 28, 2009 Monday 2:56 PM EST

Copyright 2009 HT Media Ltd. All Rights Reserved

Length: 108 words

Dateline: ALEXANDRIA, Va.

Body

ALEXANDRIA, Va., Sept. 28 -- YAPPA CORPORATION, Tokyo, has been issued the trademark YAPPA (Reg. No 3686177; International Reg. No 0960100) by the USPTO.

The trademark application (serial number 79052359) was filed on June 19, 2007 and was registered on Sept. 22.

The description of the mark registered is "Color is not claimed as a feature of the mark".

The goods & services for which registration was sought are "Arcade video games for use with an external display screen or monitor; portable radios and intercoms". For more information about US Fed News trademarks please contact: Sarabjit Jagirdar, US Fed News, Email:- htsyndication@hindustantimes.com

For any query with respect to this article or any other content requirement, please contact Editor at htsyndication@hindustantimes.com

Load-Date: October 5, 2009

End of Document

Manuel Saldana



User Name: Manuel Saldana
Date and Time: Wednesday, September 13, 2023 9:27:00AM EDT
Job Number: 205676797

Document (1)

1. *2:23cv1047, Entropic Communications, Llc V. Cox Communications, Inc. Et Al*
   Client/Matter: -None-
   Search Terms: number(2:23CV1047)
   Search Type: Natural Language
   Narrowed by:

Content Type	Narrowed by
Dockets	Case Status: Open,Unknown,Closed

2:23cv1047, Entropic Communications, Llc V. Cox Communications, Inc. Et Al

US District Court Docket

United States District Court, California Central

(Western Division - Los Angeles)

This case was retrieved on 09/12/2023

Header

Case Number: 2:23cv1047
Date Filed: 02/10/2023
Assigned To: Judge John W. Holcomb
Referred To: Magistrate Judge Karen E. Scott
Nature of Suit: Patent (830)
Cause: Patent Infringement
Lead Docket: None
Other Docket: 2:22cv07775
Jurisdiction: Federal Question

Class Code: Open
Statute: 35:271
Jury Demand: Plaintiff
Demand Amount: $0
NOS Description: Patent

Participants

Litigants

Entropic Communications, LLC
Plaintiff

Attorneys

Christina N. Goodrich
LEAD ATTORNEY;ATTORNEY TO BE NOTICED
KandL Gates LLP
10100 Santa Monica Boulevard, 8th Floor
Los Angeles, CA 90067
USA
310-552-5000 Fax: 310-552-5001
Email:Christina.Goodrich@klgates.Com

Cassidy Young
ATTORNEY TO BE NOTICED
K and L Gates LLP
10100 Santa Monica Boulevard, 8th Floor
Los Angeles, CA 90067
USA
310-552-5058 Fax: 310-552-5001
Email:Cassidy.Young@klgates.Com

Connor James Meggs
ATTORNEY TO BE NOTICED
KandL Gates LLP
10100 Santa Monica Boulevard 8th Floor
Los Angeles, CA 90067
USA
310-552-5000 Fax: 310-552-5001
Email:Connor.Meggs@klgates.Com

Manuel Saldana

Litigants	Attorneys
	Darlene F. Ghavimi PRO HAC VICE;ATTORNEY TO BE NOTICED KandL Gates LLP 2801 Via Fortuna, Suite 650 Austin, TX 78746 USA 512-482-6919 Fax: 512-482-6859 Email:Darlene.Ghavimi@klgates.Com George C. Summerfield PRO HAC VICE;ATTORNEY TO BE NOTICED KandL Gates LLP 70 West Madison Street, Suite 3100 Chicago, IL 60602 USA 312-807-4376 Fax: 312-827-8000 Email:George.Summerfield@klgates.Com James A. Shimota PRO HAC VICE;ATTORNEY TO BE NOTICED KandL Gates LLP 70 West Madison Street, Suite 3100 Chicago, IL 60602 USA 312-807-4299 Fax: 312-827-8000 Email:Jim.Shimota@klgates.Com Kenneth Bridges ATTORNEY TO BE NOTICED Bridges IP Consulting 2113 19th Avenue S Nashville, TN 37212 USA 615-973-9478 Email:Bridgesip@icloud.Com Peter E. Soskin ATTORNEY TO BE NOTICED KandL Gates LLP 4 Embarcadero Center, Suite 1200 San Francisco, CA 94111 USA 415-882-8200 Fax: 415-882-8220 Email:Peter.Soskin@klgates.Com
Cox Communications, Inc. **Defendant**	Mitchell G. Stockwell LEAD ATTORNEY;PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street, Suite 2800 Atlanta, GA 30309-4530 USA 404-815-6214 Fax: 404-541-3403 Email:Mstockwell@kilpatricktownsend.Com April Elizabeth Isaacson ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 2 Embarcadero Center, Suite 1900 San Francisco, CA 94111 USA

Litigants	Attorneys
	415-273-8306 Fax: 415-354-3519 Email:Aisaacson@kilpatricktownsend.Com Christopher S. Leah PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street Ne, Suite 2800 Atlanta, GA 30309 USA 404-815-6081 Fax: 404-541-4664 Email:Cleah@kilpatricktownsend.Com Courtney S. Dabbiere PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street Ne, Suite 2800 Atlanta, GA 30309 USA 404-815-6027 Fax: 404-541-4757 Email:Cdabbiere@kilpatricktownsend.Com Michael J. Turton PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street Ne, Suite 2800 Atlanta, GA 30309 USA 404-815-6061 Fax: 404-541-3250 Email:Mturton@kilpatricktownsend.Com Rishi Gupta ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1801 Century Park East, Suite 2300 Los Angeles, CA 90067 USA 310-777-3733 Email:Rgupta@kilpatricktownsend.Com Sarah Y Kamran ATTORNEY TO BE NOTICED Kilpatrick Townsend 1801 Century Park East Suite 2300 Los Angeles, CA 90067 USA 310-310-7015 Fax: 310-861-0327 Email:Skamran@kilpatricktownsend.Com Vaibhav P. Kadaba PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street Ne, Suite 2800 Atlanta, GA 30309 USA 404-532-6959 Fax: 404-541-3258 Email:Wkadaba@kilpatricktownsend.Com
Coxcom, LLC **Defendant**	Mitchell G. Stockwell LEAD ATTORNEY;PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP

Litigants

Attorneys

1100 Peachtree Street, Suite 2800
Altanta, GA 30309-4530
USA
404-815-6214 Fax: 404-541-3403
Email:Mstockwell@kilpatricktownsend.Com

April Elizabeth Isaacson
ATTORNEY TO BE NOTICED
Kilpatrick Townsend and Stockton LLP
2 Embarcadero Center, Suite 1900
San Francisco, CA 94111
USA
415-273-8306 Fax: 415-354-3519
Email:Aisaacson@kilpatricktownsend.Com

Christopher S. Leah
PRO HAC VICE;ATTORNEY TO BE NOTICED
Kilpatrick Townsend and Stockton LLP
1100 Peachtree Street Ne, Suite 2800
Atlanta, GA 30309
USA
404-815-6081 Fax: 404-541-4664
Email:Cleah@kilpatricktownsend.Com

Courtney S. Dabbiere
PRO HAC VICE;ATTORNEY TO BE NOTICED
Kilpatrick Townsend and Stockton LLP
1100 Peachtree Street Ne, Suite 2800
Atlanta, GA 30309
USA
404-815-6027 Fax: 404-541-4757
Email:Cdabbiere@kilpatricktownsend.Com

Michael J. Turton
PRO HAC VICE;ATTORNEY TO BE NOTICED
Kilpatrick Townsend and Stockton LLP
1100 Peachtree Street Ne, Suite 2800
Atlanta, GA 30309
USA
404-815-6061 Fax: 404-541-3250
Email:Mturton@kilpatricktownsend.Com

Rishi Gupta
ATTORNEY TO BE NOTICED
Kilpatrick Townsend and Stockton LLP
1801 Century Park East, Suite 2300
Los Angeles, CA 90067
USA
310-777-3733 Email:Rgupta@kilpatricktownsend.Com

Sarah Y Kamran
ATTORNEY TO BE NOTICED
Kilpatrick Townsend
1801 Century Park East Suite 2300
Los Angeles, CA 90067
USA
310-310-7015 Fax: 310-861-0327
Email:Skamran@kilpatricktownsend.Com

Litigants	Attorneys
	Vaibhav P. Kadaba PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street Ne, Suite 2800 Atlanta, GA 30309 USA 404-532-6959 Fax: 404-541-3258 Email:Wkadaba@kilpatricktownsend.Com
Cox Communications California, LLC **Defendant**	Mitchell G. Stockwell LEAD ATTORNEY;PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street, Suite 2800 Altanta, GA 30309-4530 USA 404-815-6214 Fax: 404-541-3403 Email:Mstockwell@kilpatricktownsend.Com April Elizabeth Isaacson ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 2 Embarcadero Center, Suite 1900 San Francisco, CA 94111 USA 415-273-8306 Fax: 415-354-3519 Email:Aisaacson@kilpatricktownsend.Com Christopher S. Leah PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street Ne, Suite 2800 Atlanta, GA 30309 USA 404-815-6081 Fax: 404-541-4664 Email:Cleah@kilpatricktownsend.Com Courtney S. Dabbiere PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street Ne, Suite 2800 Atlanta, GA 30309 USA 404-815-6027 Fax: 404-541-4757 Email:Cdabbiere@kilpatricktownsend.Com Michael J. Turton PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street Ne, Suite 2800 Atlanta, GA 30309 USA 404-815-6061 Fax: 404-541-3250 Email:Mturton@kilpatricktownsend.Com Rishi Gupta ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1801 Century Park East, Suite 2300

Litigants	Attorneys
	Los Angeles, CA 90067 USA 310-777-3733 Email:Rgupta@kilpatricktownsend.Com Sarah Y Kamran ATTORNEY TO BE NOTICED Kilpatrick Townsend 1801 Century Park East Suite 2300 Los Angeles, CA 90067 USA 310-310-7015 Fax: 310-861-0327 Email:Skamran@kilpatricktownsend.Com Vaibhav P. Kadaba PRO HAC VICE;ATTORNEY TO BE NOTICED Kilpatrick Townsend and Stockton LLP 1100 Peachtree Street Ne, Suite 2800 Atlanta, GA 30309 USA 404-532-6959 Fax: 404-541-3258 Email:Wkadaba@kilpatricktownsend.Com
David M Keyzer **Special Master**	David Keyzer LEAD ATTORNEY;ATTORNEY TO BE NOTICED Law Office of David Keyzer PC 5170 Golden Foothill Parkway El Dorado Hills, CA 95762 USA 916-243-5259 Fax: 916-404-0436 Email:David@keyzerlaw.Com

Proceedings

#	Date	Proceeding Text	Source
1	02/10/2023	COMPLAINT Receipt No: ACACDC-34782779 - Fee: $402, filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Exhibit D, # 5 Exhibit E, # 6 Exhibit F, # 7 Exhibit G, # 8 Exhibit H, # 9 Exhibit I, # 10 Exhibit J, # 11 Exhibit K, # 12 Exhibit L, # 13 Exhibit M, # 14 Exhibit N, # 15 Exhibit O, # 16 Exhibit P, # 17 Exhibit Q, # 18 Exhibit R, # 19 Exhibit S, # 20 Exhibit T, # 21 Exhibit U, # 22 Exhibit V, # 23 Exhibit W, # 24 Exhibit X, # 25 Exhibit Y) (Attorney Christina N. Goodrich added to party Entropic Communications, LLC(pty:pla))(Goodrich, Christina) (Entered: 02/10/2023)	
2	02/10/2023	CIVIL COVER SHEET filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 02/10/2023)	
3	02/10/2023	Request for Clerk to Issue Summons on Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Summons to CoxCom, LLC, # 2 Proposed Summons to Cox Communications California, LLC)(Goodrich, Christina) (Entered: 02/10/2023)	
4	02/10/2023	Certification and NOTICE of Interested Parties filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 02/10/2023)	
5	02/10/2023	NOTICE of Related Case(s) filed by Plaintiff Entropic Communications, LLC. Related Case(s): 2:23-cv-01043 (Goodrich, Christina) (Entered: 02/10/2023)	

#	Date	Proceeding Text	Source
6	02/10/2023	REPORT ON THE FILING OF AN ACTION Regarding a Patent or a Trademark (Initial Notification) filed by Entropic Communications, LLC. (Goodrich, Christina) (Entered: 02/10/2023)	
7	02/14/2023	NOTICE OF ASSIGNMENT to District Judge Dolly M. Gee and Magistrate Judge Douglas F. McCormick. (et) (Entered: 02/14/2023)	
8	02/14/2023	NOTICE TO PARTIES OF COURT-DIRECTED ADR PROGRAM filed. (et) (Entered: 02/14/2023)	
9	02/14/2023	Notice to Counsel Re Consent to Proceed Before a United States Magistrate Judge. (et) (Entered: 02/14/2023)	
10	02/14/2023	21 DAY Summons Issued re Complaint (Attorney Civil Case Opening) 1 as to Defendant Cox Communications, Inc. (et) (Entered: 02/14/2023)	
11	02/14/2023	21 DAY Summons Issued re Complaint (Attorney Civil Case Opening) 1 as to Defendant CoxCom, LLC. (et) (Entered: 02/14/2023)	
12	02/14/2023	21 DAY Summons Issued re Complaint (Attorney Civil Case Opening) 1 as to Defendant Cox Communications California, LLC. (et) (Entered: 02/14/2023)	
13	02/14/2023	NOTICE OF PRO HAC VICE APPLICATION DUE for Non-Resident Attorney Darlene F. Ghavimi on behalf of Plaintiff. A document recently filed in this case lists you as an out-of-state attorney of record. However, the Court has not been able to locate any record that you are admitted to the Bar of this Court, and you have not filed an application to appear Pro Hac Vice in this case. Accordingly, within 5 business days of the date of this notice, you must either (1) have your local counsel file an application to appear Pro Hac Vice (Form G-64) and pay the applicable fee, or (2) complete the next section of this form and return it to the court at cacd_attyadm@cacd.uscourts.gov. You have been removed as counsel of record from the docket in this case, and you will not be added back to the docket until your Pro Hac Vice status has been resolved. (et) (Entered: 02/14/2023)	
14	02/14/2023	NOTICE OF PRO HAC VICE APPLICATION DUE for Non-Resident Attorney George C Summerfield on behalf of Plaintiff. A document recently filed in this case lists you as an out-of-state attorney of record. However, the Court has not been able to locate any record that you are admitted to the Bar of this Court, and you have not filed an application to appear Pro Hac Vice in this case. Accordingly, within 5 business days of the date of this notice, you must either (1) have your local counsel file an application to appear Pro Hac Vice (Form G-64) and pay the applicable fee, or (2) complete the next section of this form and return it to the court at cacd_attyadm@cacd.uscourts.gov. You have been removed as counsel of record from the docket in this case, and you will not be added back to the docket until your Pro Hac Vice status has been resolved. (et) (Entered: 02/14/2023)	
15	02/14/2023	NOTICE OF PRO HAC VICE APPLICATION DUE for Non-Resident Attorney James A. Shimota on behalf of Plaintiff. A document recently filed in this case lists you as an out-of-state attorney of record. However, the Court has not been able to locate any record that you are admitted to the Bar of this Court, and you have not filed an application to appear Pro Hac Vice in this case. Accordingly, within 5 business days of the date of this notice, you must either (1) have your local counsel file an application to appear Pro Hac Vice (Form G-64) and pay the applicable fee, or (2) complete the next section of this form and return it to the court at cacd_attyadm@cacd.uscourts.gov. You have been removed as	

#	Date	Proceeding Text	Source
		counsel of record from the docket in this case, and you will not be added back to the docket until your Pro Hac Vice status has been resolved. (et) (Entered: 02/14/2023)	
16	02/16/2023	ORDER RE TRANSFER PURSUANT TO GENERAL ORDER 21-01-Related Case- filed. Related Case No: 2:22-cv-07775 JWH(JEMx). Case transferred from Judge Dolly M. Gee and Magistrate Judge Douglas F. McCormick to Judge John W. Holcomb and Magistrate Judge Karen E. Scott for all further proceedings. The case number will now reflect the initials of the transferee Judge 2:23-cv-01047 JWH(KESx). Signed by Judge John W. Holcomb (rn) (Entered: 02/16/2023)	
17	02/21/2023	MINUTE ORDER TO SHOW CAUSE REGARDING CONSOLIDATION (IN CHAMBERS) by Judge John W. Holcomb. The Court ORDERS the parties to show cause why these three cases- Nos. 2:23-cv-01043-JWH-KES, 2:23-cv-01047-JWH-KES, and 2:23-cv-01048-JWH-KES, should not be consolidated for pretrial purposes in view of the overlap in subject matter. The parties are DIRECTED to file no later than March 10, 2023, a joint response detailing their collective or respective positions regarding pretrial consolidation. A hearing on this Order to Show Cause is SET for March 31, 2023, at 9:00 a.m. in Courtroom 9D of the Ronald Reagan Federal Building and U.S. Courthouse, 411 W. 4th Street, Santa Ana, California. IT IS SO ORDERED. (yl) (yl) (Entered: 02/22/2023)	
18	02/23/2023	STANDING ORDER by Judge John W. Holcomb. (cla) (Entered: 02/23/2023)	
19	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant Cox Communications, Inc. served on 2/15/2023, answer due 3/8/2023. Service of the Summons and Complaint were executed upon Lynanne Gares, Managing Agent, Corporation Service Company in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered: 02/23/2023)	
20	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant CoxCom, LLC served on 2/16/2023, answer due 3/9/2023. Service of the Summons and Complaint were executed upon Trudy Desbiens, CSC Authorized Agent in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered: 02/23/2023)	
21	02/23/2023	PROOF OF SERVICE Executed by Plaintiff Entropic Communications, LLC, upon Defendant Cox Communications California, LLC served on 2/16/2023, answer due 3/9/2023. Service of the Summons and Complaint were executed upon Trudy Desbiens, CSC Authorized Agent in compliance with Federal Rules of Civil Procedure by service on a domestic corporation, unincorporated association, or public entity.Original Summons NOT returned. (Goodrich, Christina) (Entered: 02/23/2023)	
22	03/07/2023	NOTICE of Appearance filed by attorney April Elizabeth Isaacson on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC (Attorney April Elizabeth Isaacson added to party Cox Communications California, LLC(pty:dft), Attorney April Elizabeth Isaacson added to party Cox Communications, Inc.(pty:dft), Attorney April Elizabeth Isaacson added to party CoxCom, LLC(pty:dft))(Isaacson, April) (Entered: 03/07/2023)	

#	Date	Proceeding Text	Source
23	03/07/2023	NOTICE of Appearance filed by attorney Rishi Gupta on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC (Attorney Rishi Gupta added to party Cox Communications California, LLC(pty:dft), Attorney Rishi Gupta added to party Cox Communications, Inc.(pty:dft), Attorney Rishi Gupta added to party CoxCom, LLC(pty:dft))(Gupta, Rishi) (Entered: 03/07/2023)	
24	03/08/2023	Joint STIPULATION Extending Time to Answer the complaint as to Cox Communications, Inc. answer now due 4/7/2023, re Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC.(Goodrich, Christina) (Entered: 03/08/2023)	
25	03/08/2023	Joint STIPULATION Extending Time to Answer the complaint as to CoxCom, LLC answer now due 4/8/2023, re Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC.(Goodrich, Christina) (Entered: 03/08/2023)	
26	03/08/2023	Joint STIPULATION Extending Time to Answer the complaint as to Cox Communications California, LLC answer now due 4/8/2023, re Complaint (Attorney Civil Case Opening),, 1 filed by Plaintiff Entropic Communications, LLC.(Goodrich, Christina) (Entered: 03/08/2023)	
27	03/10/2023	RESPONSE filed by Plaintiff Entropic Communications, LLCto Minutes of In Chambers Order/Directive - no proceeding held,,, Set/Reset Hearing,, 17 - JOINT RESPONSE TO OSC RE CONSOLIDATION (Goodrich, Christina) (Entered: 03/10/2023)	
28	03/16/2023	APPLICATION of Non-Resident Attorney Mitchell G. Stockwell to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-34966605) filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. (Attachments: # 1 Certificate of Good Standing - GA State Bar, # 2 Proposed Order Proposed Order) (Attorney Mitchell G Stockwell added to party Cox Communications California, LLC(pty:dft), Attorney Mitchell G Stockwell added to party Cox Communications, Inc.(pty:dft), Attorney Mitchell G Stockwell added to party CoxCom, LLC(pty:dft)) (Stockwell, Mitchell) (Entered: 03/16/2023)	
29	03/16/2023	NOTICE of Deficiency in Electronically Filed Pro Hac Vice Application RE: APPLICATION of Non-Resident Attorney Mitchell G. Stockwell to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-34966605) 28 . The following error(s) was/were found: Local Rule 5-4.3.4 Application not hand-signed. Other error(s) with document(s): Please note that electronic, image or stamp signatures are not allowed for either applicant or local counsel. See Instructions for Applicants (1). (lt) (Entered: 03/16/2023)	
30	03/20/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Mitchell G. Stockwell to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC 28 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 03/20/2023)	
31	03/21/2023	Joint STIPULATION to Continue Hearing on Order to Show Cause re Consolidation from March 31, 2023 to April 21, 2023 Re: Minutes of In Chambers Order/Directive - no proceeding held,,, Set/Reset Hearing,, 17 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order on Joint Stipulation to	

#	Date	Proceeding Text	Source
		Request Continuance)(Goodrich, Christina) (Entered: 03/21/2023)	
32	03/23/2023	APPLICATION of Non-Resident Attorney Michael J. Turton to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35006987) filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. (Attachments: # 1 Certificate of Good Standing - GA State Bar, # 2 Certificate of Good Standing - TX State Bar, # 3 Proposed Order Proposed Order) (Attorney Michael J. Turton added to party Cox Communications California, LLC(pty:dft), Attorney Michael J. Turton added to party Cox Communications, Inc.(pty:dft), Attorney Michael J. Turton added to party CoxCom, LLC(pty:dft)) (Turton, Michael) (Entered: 03/23/2023)	
33	03/23/2023	ORDER GRANTING JOINT STIPULATION TO REQUEST CONTINUANCE OF HEARING ON ORDER TO SHOW CAUSE REGARDING CONSOLIDATION by Judge John W. Holcomb, re Stipulation to Continue 31 . it is hereby ORDERED that the March 31, 2023, hearing on the Order to Show Cause Regarding Consolidation is CONTINUED from March 31, 2023, to April 21, 2023, at 9:00 a.m. IT IS SO ORDERED. (et) (Entered: 03/23/2023)	
34	03/28/2023	APPLICATION of Non-Resident Attorney Vaibhav P. Kadaba to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35031682) filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. (Attachments: # 1 Certificate of Good Standing - GA State Bar, # 2 Proposed Order Proposed Order) (Attorney Vaibhav P Kadaba added to party Cox Communications California, LLC(pty:dft), Attorney Vaibhav P Kadaba added to party Cox Communications, Inc.(pty:dft), Attorney Vaibhav P Kadaba added to party CoxCom, LLC(pty:dft)) (Kadaba, Vaibhav) (Entered: 03/28/2023)	
35	03/28/2023	APPLICATION of Non-Resident Attorney Christopher S. Leah to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35034958) filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. (Attachments: # 1 Certificate of Good Standing - GA State Bar, # 2 Proposed Order Proposed Order) (Gupta, Rishi) (Entered: 03/28/2023)	
36	03/28/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Michael J. Turton to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC 32 ; APPLICATION of Non-Resident Attorney Vaibhav P. Kadaba to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC 34 ; APPLICATION of Non-Resident Attorney Christopher S. Leah to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC 35 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 03/28/2023)	
37	03/31/2023	Joint STIPULATION for Extension of Time to File Answer to May 8, 2023 re Complaint (Attorney Civil Case Opening),, 1 filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. (Attachments: # 1 Proposed Order)(Isaacson, April) (Entered: 03/31/2023)	

#	Date	Proceeding Text	Source
38	03/31/2023	NOTICE of Appearance filed by attorney Sarah Y Kamran on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC (Attorney Sarah Y Kamran added to party Cox Communications California, LLC(pty:dft), Attorney Sarah Y Kamran added to party Cox Communications, Inc.(pty:dft), Attorney Sarah Y Kamran added to party CoxCom, LLC(pty:dft))(Kamran, Sarah) (Entered: 03/31/2023)	
40	04/03/2023	MINUTE ORDER TO SHOW CAUSE REGARDING APPOINTMENT OF SPECIAL MASTER REGARDING DISCOVERY DISPUTES (IN CHAMBERS) by Judge John W. Holcomb. These cases will likely generate a substantial number of discovery disputes.For that reason, the Court is considering appointing a Special Master to assist the Court in managing and deciding discovery matters, and, therefore, it issues this order to show cause (OSC). For the foregoing reasons, the Court hereby ORDERS as follows: 1. No later than April 14, 2023, the parties are DIRECTED to respond to this OSC by each filing a statement either consenting to the appointment of a Special Master for discovery purposes or showing cause why a Special Master should not be appointed. 2. A hearing on this OSC is SET for April 21, 2023, at 9:00 a.m. See minute order for details. (lom) (Entered: 04/04/2023)	
39	04/04/2023	ORDER GRANTING JOINT STIPULATION FOR AN ADDITIONAL 30-DAY EXTENSION OF TIME FOR DEFENDANTS TO ANSWER OR OTHERWISE RESPOND TO PLAINTIFF'S COMPLAINT 37 by Judge John W. Holcomb. It is hereby ORDERED that the deadline for Defendants to answer or otherwise respond to Plaintiff's Complaint is EXTENDED up to and including May 8, 2023. (lom) (Entered: 04/04/2023)	
41	04/07/2023	APPLICATION of Non-Resident Attorney Courtney S. Dabbiere to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35100060) filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. (Attachments: # 1 Certificate of Good Standing - GA State Bar, # 2 Proposed Order) (Gupta, Rishi) (Entered: 04/07/2023)	
42	04/11/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Courtney S. Dabbiere to Appear Pro Hac Vice on behalf of Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC 41 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 04/11/2023)	
43	04/14/2023	STATEMENT JOINTLY SUBMITTED BY THE PARTIES IN RESPONSE TO ORDER TO SHOW CAUSE RE APPOINTMENT OF A SPECIAL MASTER filed by Plaintiff Entropic Communications, LLC re: Minutes of In Chambers Order/Directive - no proceeding held,,,, Set/Reset Deadlines/Hearings,,, 40 . (Goodrich, Christina) (Entered: 04/14/2023)	
44	04/17/2023	APPLICATION of Non-Resident Attorney James A. Shimota to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35149271) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 04/17/2023)	
45	04/17/2023	Notice OF INTERESTED PARTIES (LOCAL RULE 7.1-1) (AMENDED) filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered: 04/17/2023)	

#	Date	Proceeding Text	Source
46	04/21/2023	MINUTE ORDER OF HEARING RE: ORDER TO SHOW CAUSE RE CONSOLIDATION held before Judge John W. Holcomb. Counsel state their appearances. The Court confers with counsel regarding the posture of the case. For the reasons stated on the record, the parties are DIRECTED to meet and confer regarding a proposed order pertaining to consolidation and the appointment of Special Master. IT IS SO ORDERED. Court Reporter: Debbie Hino-Span. (yl) (Entered: 04/24/2023)	
47	04/24/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney James A. Shimota to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC 44 by Judge John W. Holcomb THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 04/24/2023)	
48	05/08/2023	ANSWER to Complaint (Attorney Civil Case Opening),, 1 with JURY DEMAND - Answer and Defenses to Complaint filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC.(Isaacson, April) (Entered: 05/08/2023)	
49	05/08/2023	CORPORATE DISCLOSURE STATEMENT - DEFENDANTS FED. R. CIV. P. 7.1 DISCLOSURE STATEMENT AND L.R. 7.1-1 NOTICE OF INTERESTED PARTIES filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC identifying Cox Enterprises, Inc. as Corporate Parent. (Isaacson, April) (Entered: 05/08/2023)	
50	05/14/2023	TRANSCRIPT for proceedings held on 4/21/2023 at 8:59 a.m. ****Transcript may be viewed at the court public terminal or purchased through Court Reporter DEBBIE HINO-SPAAN at: WEBSITE www.debbiehinospaan.com; E-mail, dhinospaan@yahoo.com before the deadline for Release of Transcript restriction. After that date, it may be obtained from the Court Reporter or through PACER. Additional formats of the transcript (ASCII, Condensed, and Word Indexing/Concordance) are also available to be purchased at any time through the Court Reporter. Notice of Intent to Redact due within 7 days of this date.** Redaction Request due 6/5/2023. Redacted Transcript Deadline set for 6/14/2023. Release of Transcript Restriction set for 8/14/2023. (dhs) (Entered: 05/14/2023)	
51	05/14/2023	NOTICE OF FILING TRANSCRIPT filed for proceedings 4/21/2023 at 8:59 a.m. re Transcript 50 THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (dhs) TEXT ONLY ENTRY (Entered: 05/14/2023)	
52	05/17/2023	ORDER SETTING SCHEDULING CONFERENCE by Judge John W. Holcomb. Scheduling Conference set for 6/30/2023 at 9:00 AM before Judge John W. Holcomb. (cla) (Entered: 05/17/2023)	
53	05/17/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court SETS a Status Conference on June 9, 2023, at 11:00 a.m. The parties are DIRECTED to file a Joint Status Report no later than Friday, May 26, 2023, that includes an update regarding the appointment of a Special Master and case consolidation. The parties are DIRECTED to appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 05/17/2023)	
54	05/26/2023	STATUS REPORT re Consolidation and Appointment of Special Master Prepared Jointly by All Parties filed by Plaintiff Entropic Communications, LLC. (Goodrich, Christina) (Entered:	

#	Date	Proceeding Text	Source
		05/26/2023)	
55	05/26/2023	APPLICATION of Non-Resident Attorney George C. Summerfield to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35393510) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 05/26/2023)	
56	05/30/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court CONTINUES the Status Conference from June 9, 2023, at 11:00 a.m., to June 9, 2023, at 9:00 a.m. ***TIME CHANGE ONLY*** The parties are DIRECTED to appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 05/30/2023)	
57	05/31/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney George C. Summerfield to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC 55 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (ev) TEXT ONLY ENTRY (Entered: 05/31/2023)	
58	06/06/2023	APPLICATION of Non-Resident Attorney Darlene F. Ghavimi to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35440348) filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order) (Goodrich, Christina) (Entered: 06/06/2023)	
59	06/06/2023	Joint STIPULATION to Continue Scheduling Conference from June 30, 2023 to July 21, 2023 Re: Initial Order Setting R26 Scheduling Conference - form only 52 filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. (Attachments: # 1 Proposed Order)(Isaacson, April) (Entered: 06/06/2023)	
60	06/07/2023	NOTICE of Deficiency in Electronically Filed Pro Hac Vice Application RE: APPLICATION of Non-Resident Attorney Darlene F. Ghavimi to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC (Pro Hac Vice Fee - $500 Fee Paid, Receipt No. ACACDC-35440348) 58 . The following error(s) was/were found: Local Rule 5-4.3.4 Application not hand-signed. Local Rule 83-2.1.3.3(d) Attached Certificate of Good Standing not issued within 30 days prior to filing of the application. Other error(s) with document(s): Please note that electronic, image or stamp signatures are not allowed for either applicant or local counsel. See Instructions for Applicants (1). (lt) (Entered: 06/07/2023)	
61	06/08/2023	Joint STIPULATION for Order to Appoint Special Master filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Affidavit of David M. Keyzer Pursuant to Fed. R. Civ. P. 53(b)(3)(A), # 2 Proposed Order)(Goodrich, Christina) (Entered: 06/08/2023)	
62	06/09/2023	HEARING RE: STATUS CONFEFERENCE held before Judge John W. Holcomb. Counsel state their appearances. The Court confers with counsel regarding the posture of the case and case schedule. For the reasons stated on the record, the Court hereby ORDERS as follows: The parties' Joint Stipulation for Continuance of the Scheduling Conference [ECF No. 59] is APPROVED. The Scheduling Conference is CONTINUED to July 21, 2023, at 11:00	

#	Date	Proceeding Text	Source
		a.m. IT IS SO ORDERED. Court Reporter: Debbie Hino-Span. (yl) (Entered: 06/13/2023)	
63	06/14/2023	Text Only ORDER GRANTING APPLICATION of Non-Resident Attorney Darlene F. Ghavimi to Appear Pro Hac Vice on behalf of Plaintiff Entropic Communications, LLC 58 by Judge John W. Holcomb. THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 06/14/2023)	
64	06/16/2023	NOTICE OF MOTION AND MOTION for Order for Rule 12(C) Motion For Invalidity Under 35 U.S.C. 101 filed by Plaintiffs Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. Motion set for hearing on 7/21/2023 at 09:00 AM before Judge John W. Holcomb. (Attachments: # 1 Memorandum of Points and Authorities in Support, # 2 Proposed Order) (Isaacson, April) (Entered: 06/16/2023)	
65	06/26/2023	TRANSCRIPT ORDER as to Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC for Court Reporter. Court will contact Stephanie Pearson at sdmpearson@kilpatricktownsend.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Isaacson, April) (Entered: 06/26/2023)	
66	06/30/2023	Plaintiff Entropic Communications, LLC's Opposition re: NOTICE OF MOTION AND MOTION for Order for Rule 12(C) Motion For Invalidity Under 35 U.S.C. 101 64 filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Declaration of Darlene Ghavimi, # 2 Exhibit A, # 3 Exhibit B, # 4 Exhibit C, # 5 Exhibit D, # 6 Exhibit E)(Goodrich, Christina) (Entered: 06/30/2023)	
67	07/05/2023	ORDER APPOINTING DAVID KEYZER, ESQ. AS SPECIAL MASTER FOR DISCOVERY PURPOSES by Judge John W. Holcomb, re Stipulation 61 : Pursuant to Fed. R. Civ. P. 53(b)(3)(A), and good cause shown, it is hereby ORDERED as follows: 1. Appointment: The Court determines that the appointment of David Keyzer, Esq. (the "Special Master") is appropriate under Rule 53(a)(1)(C) of the Federal Rules of Civil Procedure to address pretrial matters that cannot be effectively and timely addressed by an available district judge or magistrate judge in this district. (see document for further details) (bm) (Entered: 07/05/2023)	
68	07/05/2023	TRANSCRIPT ORDER as to Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC for Court Reporter. Court will contact Stephanie DM Pearson at sdmpearson@kilpatricktownsend.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Isaacson, April) (Entered: 07/05/2023)	
69	07/07/2023	REPLY IN SUPPORT OF NOTICE OF MOTION AND MOTION for Order for Rule 12(C) Motion For Invalidity Under 35 U.S.C. 101 64 filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. (Isaacson, April) (Entered: 07/07/2023)	
70	07/07/2023	JOINT REPORT Rule 26(f) Discovery Plan ; estimated length of trial 6 to 8 days, filed by Plaintiff Entropic Communications, LLC.. (Goodrich, Christina) (Entered: 07/07/2023)	
71	07/10/2023	SCHEDULING NOTICE AND ORDER by Judge John W. Holcomb: On its own motion, the Court CONTINUES the hearing on Defendant's Motion for Invalidity [ECF No. 64] and the Scheduling Conference from Friday, July 21, 2023, at 9:00 a.m., to Wednesday, August 9, 2023, at 10:00 a.m. The parties are DIRECTED to appear in person in Courtroom 9D, on the 9th Floor	

#	Date	Proceeding Text	Source
		of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 07/10/2023)	
72	07/14/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Kenneth Bridges counsel for Plaintiff Entropic Communications, LLC. Adding Kenneth Bridges as counsel of record for Entropic Communications, LLC for the reason indicated in the G-123 Notice. Filed by Plaintiff Entropic Communications, LLC. (Attorney Kenneth Bridges added to party Entropic Communications, LLC(pty:pla))(Bridges, Kenneth) (Entered: 07/14/2023)	
73	07/17/2023	TRANSCRIPT for proceedings held on 6/9/2023 at 9:05 a.m. ****Transcript may be viewed at the court public terminal or purchased through Court Reporter DEBBIE HINO-SPAAN at: WEBSITE www.debbiehinospaan.com; E-mail. dhinospaan@yahoo.com before the deadline for Release of Transcript restriction. After that date, it may be obtained from the Court Reporter or through PACER. Additional formats of the transcript (ASCII, Condensed, and Word Indexing/Concordance) are also available to be purchased at any time through the Court Reporter. Notice of Intent to Redact due within 7 days of this date.** Redaction Request due 8/7/2023. Redacted Transcript Deadline set for 8/17/2023. Release of Transcript Restriction set for 10/16/2023. (dhs) (Entered: 07/17/2023)	
74	07/17/2023	NOTICE OF FILING TRANSCRIPT filed for proceedings 6/9/2023 re Transcript 73 THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (dhs) TEXT ONLY ENTRY (Entered: 07/17/2023)	
75	07/24/2023	Notice of Special Master Order No. SM-1 filed by Special Master David M Keyzer. pursuant to July 5, 2023 appointment Order, setting special master preliminary conference for July 26, 2023, at 12:00 P.M., by videoconference (Attachments: # 1 Special Master Order No. SM-1)(Keyzer, David) (Entered: 07/24/2023)	
76	07/26/2023	Notice of Special Master Minutes filed by Special Master David M Keyzer. minutes of preliminary conference conducted by the special master on July 26, 2023, pursuant to the Court's July 5, 2023 Order appointing special master (Attachments: # 1 Special Master Minutes)(Keyzer, David) (Entered: 07/26/2023)	
77	08/01/2023	Notice of Appearance or Withdrawal of Counsel: for attorney Cassidy Young counsel for Plaintiff Entropic Communications, LLC. Adding Cassidy Young as counsel of record for Plaintiff Entropic Communications, LLC for the reason indicated in the G-123 Notice. Filed by Plaintiff Entropic Communications, LLC. (Attorney Cassidy Young added to party Entropic Communications, LLC(pty:pla))(Young, Cassidy) (Entered: 08/01/2023)	
78	08/04/2023	Notice of Special Master Order No. SM-2 filed by Special Master David M Keyzer. regarding Discovery Dispute Resolution Procedures (Attachments: # 1 Special Master Order No. SM-2 re Discovery Dispute Resolution Procedures)(Keyzer, David) (Entered: 08/04/2023)	
79	08/09/2023	NOTICE OF LODGING filed Slides Presented at August 9, 2023 Hearing re Objection/Opposition (Motion related), 66 (Young, Cassidy) (Entered: 08/09/2023)	
83	08/09/2023	HEARING RE: MOTION OF DEFENDANT COX COMMUNICATIONS UNDER RULE 12(c) FOR INVALIDITY [ECF No. 64]; SCHEDULING CONFERENCE held before Judge John W. Holcomb. For the reasons stated on the record, the Court	

#	Date	Proceeding Text	Source
		takes the motion [ECF No. 64] under submission. Also for the reasons stated in open court, it is hereby ORDERED as follows: Counsel are DIRECTED to meet and confer forthwith regarding the Claim Construction Schedule. The parties are DIRECTED to file no later than August 18, 2023, a Stipulation and Proposed Order setting a Claim Construction Schedule. IT IS SO ORDERED. Court Reporter: Miriam Baird. (yl) (Entered: 08/14/2023)	
80	08/10/2023	NOTICE OF LODGING filed NOTICE OF LODGING OF DEMONSTRATIVE SLIDES PRESENTED AT THE AUGUST 9, 2023 HEARING re NOTICE OF MOTION AND MOTION for Order for Rule 12(C) Motion For Invalidity Under 35 U.S.C. 101 64 (Isaacson, April) (Entered: 08/10/2023)	
81	08/10/2023	TRANSCRIPT ORDER as to Plaintiff Entropic Communications, LLC for Court Reporter. Court will contact Cassidy T. Young at cassidy.young@klgates.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Young, Cassidy) (Entered: 08/10/2023)	
82	08/14/2023	TRANSCRIPT ORDER as to Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC for Court Reporter. Court will contact Stephanie DM Pearson at sdmpearson@kilpatricktownsend.com with further instructions regarding this order. Transcript preparation will not begin until payment has been satisfied with the court reporter. (Isaacson, April) (Entered: 08/14/2023)	
84	08/18/2023	TRANSCRIPT for proceedings held on 8/9/23. Court Reporter/Electronic Court Recorder: miriam baird, phone number mvb11893@aol.com. Transcript may be viewed at the court public terminal or purchased through the Court Reporter/Electronic Court Recorder before the deadline for Release of Transcript Restriction. After that date it may be obtained through PACER. Notice of Intent to Redact due within 7 days of this date. Redaction Request due 9/8/2023. Redacted Transcript Deadline set for 9/18/2023. Release of Transcript Restriction set for 11/16/2023. (Baird, Miriam) (Entered: 08/18/2023)	
85	08/18/2023	NOTICE OF FILING TRANSCRIPT filed for proceedings 8/9/23 re Transcript 84 THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (Baird, Miriam) TEXT ONLY ENTRY (Entered: 08/18/2023)	
86	08/18/2023	STIPULATION for Order Setting Claim Construction Schedule filed by Plaintiff Entropic Communications, LLC. (Attachments: # 1 Proposed Order)(Young, Cassidy) (Entered: 08/18/2023)	
87	08/21/2023	ORDER by Judge John W. Holcomb GRANTING Stipulation Setting Claim Construction Schedule 86 as follows: Claim Construction Hearing set for 9/17/2024 at 10:00 AM. (See document for further information). (jp) (Entered: 08/22/2023)	
88	08/25/2023	NOTICE OF MOTION AND MOTION to AMEND Answer to Complaint (Attorney Civil Case Opening) 48 , NOTICE OF MOTION AND MOTION to AMEND ANSWER AND JOINDER filed by Defendants Cox Communications California, LLC, Cox Communications, Inc., CoxCom, LLC. Motion set for hearing on 9/22/2023 at 08:45 AM before Judge John W. Holcomb. (Attachments: # 1 Memorandum of Points and Authorities, # 2 Proposed Order, # 3 Amended Answer, # 4 Exhibit A to Amended Answer, # 5 Exhibit B to Amended Answer, # 6 Redline Compare Original Answer to Amended Answer) (Isaacson, April) (Entered: 08/25/2023)	
89	08/28/2023	SCHEDULING NOTICE AND ORDER by Judge John W.	

#	Date	Proceeding Text	Source
		Holcomb: On its own motion, the Court RESETS the hearing on Defendant's Motion to Amend Answer to Complaint [ECF No. 88] to September 22, 2023, at 9:00 a.m. ***TIME CHANGE ONLY*** The parties are DIRECTED to appear in person in Courtroom 9D, on the 9th Floor of the Ronald Reagan Federal Building and United States Courthouse at 411 W. Fourth Street Santa Ana, CA 92701. IT IS SO ORDERED.THERE IS NO PDF DOCUMENT ASSOCIATED WITH THIS ENTRY. (cla) TEXT ONLY ENTRY (Entered: 08/28/2023)	
90	09/01/2023	NOTICE OF NON-OPPOSITION to NOTICE OF MOTION AND MOTION to AMEND Answer to Complaint (Attorney Civil Case Opening) 48 NOTICE OF MOTION AND MOTION to AMEND ANSWER AND JOINDER 88 filed by Plaintiff Entropic Communications, LLC. (Young, Cassidy) (Entered: 09/01/2023)	

Patents

Number	Title	Issued	Class	Subclass
7,594,249	Network interface device and broadband local area network using coaxial cable	09/22/2009	725	78
7,889,759	Broadband cable network utilizing common bit-loading	02/15/2011	370	465
8,228,910	Aggregating network packets for transmission to a destination node	07/24/2012	370	389
8,320,566	Method and apparatus for performing constellation scrambling in a multimedia home network	11/27/2012	380	268
8,363,681	Method and apparatus for using ranging measurements in a multimedia home network	01/29/2013	370	509
9,838,213	Parameterized quality of service architecture in a network	12/05/2017	1	1
10,257,566	Broadband local area network	04/09/2019	1	1
10,432,422	Parameterized quality of service architecture in a network	10/01/2019	1	1

Copyright © LexisNexis CourtLink, Inc. All Rights Reserved.
*** THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY ***

End of Document



Assignment Query System

Close
Print
Main Page
Patents
Trademarks

Patent Assignment Abstract of Title

Total Assignments: 11

Application #: 09910412 **Filing Dt:** 07/21/2001 **Patent #:** 7594249 **Issue Dt:** 09/22/2009
PCT #: NONE **Intl Reg #:** **Publication #:** US20020166124 **Pub Dt:** 11/07/2002
Inventors: Itzhak Gurantz, Ladd Elwardani, Anton Monk, Brett Bernath, Magnus Berggren
Title: NETWORK INTERFACE DEVICE AND BROADBAND LOCAL AREA NETWORK USING COAXIAL CABLE

Assignment: 1

Reel/Frame:	Received:	Recorded:	Mailed:	Pages:
012499 / 0136	01/28/2002	01/16/2002	03/21/2002	2

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: GURANTZ, ITZHAK **Exec Dt:** 07/18/2001
ELWARDANI, LADD **Exec Dt:** 07/18/2001
MONK, ANTON **Exec Dt:** 07/18/2001
BERNATH, BRETT **Exec Dt:** 07/18/2001
BERGGREN, MAGNUS **Exec Dt:** 06/27/2001

Assignee: ENTROPIC COMMUNICATIONS INC.
12230 SORRENTO VALLEY RD. SUITE 220
SAN DIEGO, CALIFORNIA 92121

Correspondent: MICHAEL W. LANDRY
5098 SEACJASE ST/
SAN DIEGO. CA 92130

Assignment: 2

Reel/Frame:	Received:	Recorded:	Mailed:	Pages:
013016 / 0075	06/27/2002	03/22/2002	08/26/2002	7

Conveyance: SECURITY INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: ENTROPIC COMMUNICATIONS, INC. **Exec Dt:** 03/06/2002

Assignee: SILICON VALLEY BANK
MAIL SORT HG155
3003 TASMAN DRIVE
SANTA CLARA, CALIFORNIA 95054

Correspondent: SILICON VALLEY BANK
JOSEPHINE M. CARINO
3003 TASMAN DR.
MAIL STOP HG155
SANTA CLARA, CA 95054

Assignment: 3

Reel/Frame:	Received:	Recorded:	Mailed:	Pages:
014072 / 0754	05/20/2003	05/19/2003	10/24/2003	3

Conveyance: RELEASE

Assignor: SILICON VALLEY BANK **Exec Dt:** 05/12/2003

Assignee: ENTROPIC COMMUNICATIONS, INC.
9276 SCRANTON ROAD STE 200
SAN DIEGO, CALIFORNIA 92121

Correspondent: SILICON VALLEY BANK
3003 TASMAN DR.
LOAN DOCUMENTATION HA155
SANTA CLARAK, CA 95054

Assignment: 4

Reel/Frame:	Received:	Recorded:	Mailed:	Pages:
035706 / [illegible]	[illegible]	[illegible]	[illegible]	66

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

REEXAM CONTROL NUMBER	FILING OR 371 (c) DATE	PATENT NUMBER
90/019,247	09/11/2023	

CONFIRMATION NO. 2398
REEXAMINATION REQUEST
NOTICE

HAYNES AND BOONE, LLP
IP Section
2323 Victory Avenue
Suite 700
Dallas, TEXAS 75219

Date Mailed: 09/20/2023

NOTICE OF REEXAMINATION REQUEST FILING DATE

(Third Party Requester)

Requester is hereby notified that the filing date of the request for reexamination is 09/11/2023, the date that the filing requirements of 37 CFR § 1.510 were received.

A decision on the request for reexamination will be mailed within three months from the filing date of the request for reexamination. (See 37 CFR 1.515(a)).

A copy of the Notice is being sent to the person identified by the requester as the patent owner. Further patent owner correspondence will be the latest attorney or agent of record in the patent file. (See 37 CFR 1.33). Any paper filed should include a reference to the present request for reexamination (by Reexamination Control Number).

cc: Patent Owner
23446
MCANDREWS HELD & MALLOY, LTD
500 WEST MADISON STREET
SUITE 3400
CHICAGO, IL 60661

/rbell/

Legal Instruments Examiner
Central Reexamination Unit 571-272-7705; FAX No. 571-273-9900

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

REEXAM CONTROL NUMBER	FILING OR 371 (c) DATE	PATENT NUMBER
90/019,247	09/11/2023	

CONFIRMATION NO. 2398

REEXAM ASSIGNMENT NOTICE

23446
MCANDREWS HELD & MALLOY, LTD
500 WEST MADISON STREET
SUITE 3400
CHICAGO, IL 60661

OC000000062045436

Date Mailed: 09/19/2023

NOTICE OF ASSIGNMENT OF REEXAMINATION REQUEST

The above-identified request for reexamination has been assigned to Art Unit 3992. All future correspondence to the proceeding should be identified by the control number listed above and directed to the assigned Art Unit.

A copy of this Notice is being sent to the latest attorney or agent of record in the patent file or to all owners of record. (See 37 CFR 1.33(c)). If the addressee is not, or does not represent, the current owner, he or she is required to forward all communications regarding this proceeding to the current owner(s). An attorney or agent receiving this communication who does not represent the current owner(s) may wish to seek to withdraw pursuant to 37 CFR 1.36 in order to avoid receiving future communications. If the address of the current owner(s) is unknown, this communication should be returned within the request to withdraw pursuant to Section 1.36.

NOTICE OF USPTO EX PARTE REEXAMINATION PATENT OWNER STATEMENT WAIVER PROGRAM

The USPTO has implemented a pilot program where, after a reexamination proceeding has been granted a filing date and before the examiner begins his or her review, the patent owner may orally waive the right to file a patent owner's statement. See *"Pilot Program for Waiver of Patent Owner's Statement in Ex Parte Reexamination Proceedings,"* 75 FR 47269 (August 5, 2010). One goal of the pilot program is to reduce the pendency of reexamination proceedings and improve the efficiency of the reexamination process.

Ordinarily when ex parte reexamination is ordered, the USPTO must wait until after the receipt of the patent owner's statement and the third party requester's reply, or after the expiration of the time period for filing the statement and reply (a period that can be as long as 5 to 6 months), before mailing a first determination of patentability. The USPTO's first determination of patentability is usually a first Office action on the merits or a Notice of Intent to Issue Reexamination Certificate (NIRC).

Under the pilot program, the patent owner's oral waiver allows the USPTO to act on the first determination of patentability immediately after determining that reexamination will be ordered, and in a suitable case issue the reexamination order and the first determination of patentability (which could be a NIRC if the claims under reexamination are confirmed) at the same time.

Benefits to the Patent Owner for participating in this pilot program include reduction in pendency.

To participate in this pilot program, Patent Owners may contact the USPTO's Central Reexamination Unit (CRU) at 571-272-7705. The USPTO will make the oral waiver of record in the reexamination file in an interview summary and a copy will be mailed to the patent owner and any third party requester.

cc: Third Party Requester(if any)
HAYNES AND BOONE, LLP
IP Section
2323 Victory Avenue
Suite 700
Dallas, TEXAS 75219

/rbell/

Legal Instruments Examiner
Central Reexamination Unit 571-272-7705; FAX No. 571-273-9900

United States Patent and Trademark Office

Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

WELCOME TO THE UNITED STATES PATENT AND TRADEMARK OFFICE (USPTO)

*Congratulations on taking the first step to protect your invention. You can now advertise or mark any products covered by this application for your invention as **"Patent Pending"** for as long as this application is pending!*

We are here to help you on the rest of your journey.

New to the process? The Patent Basics page will take you from "What is a patent?" to assistance with the application process.

- **www.uspto.gov/PatentBasics**

Consider cost savings. You might qualify for small entity or micro entity status, which means a discount on most USPTO patent fees.

- **www.uspto.gov/EntityStatus**

Become a registered electronic filer (eFiler). You'll gain access to the full capabilities of Patent Center. As a registered eFiler, you can electronically view your submission, track the progress of your application, and respond to USPTO correspondence.

- **www.uspto.gov/NewPatentFilers**

Learn how to identify which of your creative ideas might be intellectual property assets and how to protect them by using the USPTO Intellectual Property (IP) Identifier.

- **ipidentifier.uspto.gov**

We also provide Pro Se Assistance, support specifically geared for **independent inventors without an attorney or agent.** Follow the link below, call us at 866-767-3848, or email **proseassistancecenter@uspto.gov**.

- **www.uspto.gov/ProSePatents**

Need help near you? We have regional offices across the country, as well as Patent and Trademark Resource Centers in libraries in nearly every state, with specialists standing by to help you at no cost.

- **www.uspto.gov/locations**
- **www.uspto.gov/ptrc**

Contact us:

- **General information:** USPTO Contact Center
  - **www.uspto.gov/help**
- **Patent Center:**
  Patent Electronic Business Center
  - **www.uspto.gov/EBC**
- **Pre or post-examination:** Application Assistance Unit
  - **www.uspto.gov/PatentAssistance**

Want to learn more?

- **Access our free services** all in one spot. Find all of our contact centers, nationwide services, events, education, and training.
  - **www.uspto.gov/FreeServices**
- **Connect with us** on Instagram, LinkedIn, Twitter, Facebook, and YouTube.
- **Hear about resources for startups, inventors, and entrepreneurs,** as well as our initiatives engaging women, the military community, and others. These programs offer helpful tips and tricks on identifying and managing your IP, finding options for funding, and expanding your network to support your business.
  - **www.uspto.gov/startups**
  - **www.uspto.gov/inventors**
  - **www.uspto.gov/initiatives**
- We hope you connect with us by subscribing to receive important notifications by email.
  - **www.uspto.gov/subscribe**

Kathi Vidal

Kathi Vidal
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

Derrick Brent
Deputy Under Secretary of Commerce for Intellectual Property and
Deputy Director of the United States Patent and Trademark Office