

Filed on behalf of TQ Delta LLC

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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CISCO SYSTEMS, INC., DISH NETWORK, LLC,
COMCAST CABLE COMMUNICATIONS, LLC,
COX COMMUNICATIONS, INC.,
TIME WARNER CABLE ENTERPRISES LLC,
VERIZON SERVICES CORP., and ARRIS GROUP, INC.,
Petitioner,

v.

TQ DELTA, LLC,
Patent Owner.

Case IPR2016-01008¹
Patent No. 8,238,412 B2

CORRECTED PATENT OWNER'S MOTION FOR OBSERVATION

¹ DISH Network, L.L.C., who filed a Petition in IPR2017-00253, and Comcast Cable Communications, L.L.C., Cox Communications, Inc., Time Warner Cable Enterprises L.L.C., Verizon Services Corp., and ARRIS Group, Inc., who filed a Petition in IPR2017-00419, have been joined in this proceeding.

Patent Owner TQ Delta, LLC (“Patent Owner”) submits this motion for observation regarding cross-examination of Dr. Sayfe Kiaei a reply declarant for Petitioners. Patent Owner submits the following Observation based on Dr. Kiaei’s testimony taken on June 26, 2017.

Observation #1: In Ex. 2011, on page 45, line 10 to page 46, line 16, Dr. Kiaei testified that a “communication channel is a channel within a much broader frequency band. And it could be subchannel that -- subchannel or the broader frequency band. It could be a subchannel of a much broader frequency band that this subchannel of that broader frequency band is used for communication channel, specifically for the rest of the patent that claimed that it discussed it.” This testimony is relevant to Dr. Kiaei’s declaration testimony that “[a] carrier may be another term for a sub-channel when the sub-channel’s frequency is modified to carry information” (Ex. 1009 at ¶ 69) and “a sub-channel has its own frequency.” *See* Ex. 1009 at ¶ 67. The testimony is relevant because it undermines the credibility of Dr. Kiaei’s declaration testimony concerning the claimed “subchannel” recited in the ‘412 patent claims and the accuracy of Dr. Kaiei’s declaration testimony that Milbrandt’s “subfrequency” is the claimed “subchannel.”

Observation #2: In Ex. 2011, on page 31, lines. 11-12, Dr. Kiaei testified that “subbands and carriers in OFDM are -- and ADSL -- and ADSL are the same.” Separately, on page 20, lines 21-22, Dr. Kiaei testified that subbands and carriers are not the same. (“Q. Is 4 kilohertz the spacing between carriers? A. We’re not talking about carriers here right now. We're talking about 256 subbands.”) The testimony is relevant because Dr. Kaiei contradicts himself and this contradiction goes to the credibility of his declaration testimony relating to the claimed subchannel. *See* Ex. 1100 at ¶¶ 6, 8 and 9.

Observation #3: In Ex. 2011, on page 91, line 1 to page 92, line 19, with reference to “annotated figure on pg. 13 of” his reply declaration, Ex. 1100, Dr. Kiaei testified, *inter alia*, that Petitioner’s definition of subchannel “is a broad definition of a subchannel” and that the definition would include “all the frequencies in that red box” of the figure or “a portion actually from 30 hertz to 11.04 kilohertz or other portions of frequencies. . . .” This testimony is relevant to Dr. Kiaei’s declaration testimony concerning his understanding of “sub-channel” in the context of the ‘412 patent that “[a]channel may be divided into multiple sub-channels, where each sub-channel has its own frequency. For example, the broadband communications channel of the ‘412 patent is formed by multiple carriers. . . .” Ex. 1009 at ¶ 67. This testimony is relevant because it undermines

Dr. Kiaei's claim construction analysis of the claimed "subchannel" and application of the construction to the claimed "subchannel" and Milbrandt's (Ex. 1011) sub-frequency. Further, this testimony is relevant because it contradicts Dr. Kiaei's declaration testimony and goes to the credibility and accuracy of his declaration testimony equating Milbrandt's "sub-frequency" with the claimed "sub-channel."

Observation #4: In Ex. 2011, at page 84, lines 8-19, in response to a question if a subchannel is associated with a frequency, Dr. Kiaei responded that a frequency band is associated with a subchannel. This testimony is relevant to Dr. Kiaei's declaration testimony that "[a] carrier may be another term for a sub-channel when the sub-channel's frequency is modified to carry information" (Ex. 1009 at ¶ 69) and "a sub-channel has its own frequency." *See* Ex. 1009 at ¶ 67. This testimony is relevant because it undermines Dr. Kiaei's credibility.

Observation #5: In Ex. 2011, on page 31, lines 1-12, Dr. Kiaei agreed that the Elahi reference (Petitioner's Ex. 1108 at pages 108 and 109) recites that "[e]ach subfrequency is an independent channel[]" and that "ADSL uses DMT encoding to divide the bandwidth of the channel into multiple subchannels," and he further testified that he understands Elahi's subfrequency "to be the subfrequency mentioned in Milbrandt[.]" This testimony is relevant to Dr. Kiaei's declaration

testimony at Ex. 1009 at ¶ 68 regarding his understanding that “Milbrandt’s ‘sub-frequency’” “correspond[s] to the ‘subchannel’ in the ‘412 patent.” Dr. Kiaei’s testimony that Elahi and Milbrandt’s subfrequency is a channel and that “ADSL uses DMT encoding to divide the bandwidth of the channel into multiple subchannels” is relevant because it is inconsistent with Dr. Kiaei’s declaration testimony that Milbrandt’s sub-frequency is the claimed “subchannel.” This inconsistency is relevant because it undermines the credibility and accuracy of Dr. Kiaei’s declaration testimony relied upon in the institution decision (Paper 7 at pp. 16 and 24) that “Milbrandt’s ‘sub-frequency’” “correspond[s] to the ‘subchannel’ in the ‘412 patent.”

Observation #6: In Ex. 2011, on page 104, line 19 to page 111, line 24, Dr. Kiaei testified that the single value for Transmit Power Spectrum Density (“PSD”) communicated in a message in the ANSI T1.413 standard (Ex. 1014 at p. 101) could be a single value for the entire upstream or downstream channel, rather than separate values per subchannel. *See, e.g.* Ex. 2011, page 106, lines 4-8 (“Q. Okay. But that’s [3-bit value] for the entire upstream or downstream channel? THE WITNESS: That’s for the portion of the upstream or downstream channel. It could be, but I need to look at it carefully.”); Ex. 2011, page 111, lines 13-18 (“Q. So in your opinion, these 3-bit – this 3-bit value does not represent the PSD for the entire

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