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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CISCO, INC.
Petitioner

V.

TQ DELTA, LLC Patent Owner

Case No. IPR2016-01009 Patent No. 8,238,412

PATENT OWNER'S PRELIMINARY RESPONSE



TABLE OF CONTENTS

I.	INT	TRODUCTION1
II.	SU	MMARY OF THE '412 PATENT10
III.	CL	AIM CONSTRUCTION11
IV.	SIN OV	REVIEW SHOULD BE INSTITUTED WITH RESPECT TO THE IGLE GROUND RAISED BY PETITIONER—ALLEGED IOUSNESS UNDER 35 U.S.C. §103 BY MILBRANDT IN VIEW OF ANG, HWANG AND ANSI T1.413
	A.	Petitioner Have Not Established a Reasonable Likelihood That Claims 9, 11, or 21 Would Have Been Obvious
		1. The Combination of Milbrandt, Hwang, and ANSI T1.413 Would Still Fail to Disclose a Test Message Comprising "An Array Representing Power Level Per Subchannel Information"
		 Petitioner Has Not Shown That a Test Message Comprising "An Array Representing Power Level Per Subchannel Information" Would Have Been Obvious From Milbrandt, Hwang, and ANSI T1.413
		3. The Combination of Milbrandt, Hwang, and ANSI T1.413 Would Still Fail to Disclose a Test Message "Wherein Bits in the Message Are Modulated Onto DMT Symbols Using Quadrature Amplitude Modulation (QAM) With More Than 1 bit Per Sub Channel"
		4. Petitioner Has Not Shown That a Test Message "Wherein Bits in the Message Are Modulated Onto DMT Symbols Using Quadrature Amplitude Modulation (QAM) With More Than 1 bit Per Sub Channel" Would Have Been Obvious From Milbrandt, Hwang, and ANSI T1.413
	B.	Petitioner Has Not Established a Reasonable Likelihood That Claims 10 or 12 Would Have Been Obvious



	1. The Combination of Milbrandt, Hwang, and ANSI T1.413 Fails to Satisfy the Claims for the Same Reasons As Independent Claims 9 and 11
	2. The Combination of Milbrandt, Chang, Hwang, and ANSI T1.413 Would Also Still Fail to Disclose a Test Message Comprising "Power Level Per Subchannel Information Based on a Reverb Signal"
	3. Petitioner Has Not Shown That a Test Message Comprising "Power Level Per Subchannel Information Based on a Reverb Signal" Would Have Been Obvious From Milbrandt, Hwang, and ANSI T1.413
C.	Petitioner Has Not Established a Reasonable Likelihood That Claim 15 Would Have Been Obvious
	1. The Combination of Milbrandt, Chang, Hwang, and ANSI T1.413 Would Still Fail to Disclose a Test Message Comprising "An Array Representing Signal to Noise Ratio Per Subchannel During Showtime Information"
	2. Petitioner Has Not Shown That a Test Message Comprising "An Array Representing Signal to Noise Ratio Per Subchannel During Showtime Information" Would Have Been Obvious From Milbrandt, Hwang, and ANSI T1.413
	3. The Combination of Milbrandt, Hwang, and ANSI T1.413 Would Still Fail to Disclose or Render Obvious a Test Message "Wherein Bits in the Message Are Modulated Onto DMT Symbols Using Quadrature Amplitude Modulation (QAM) With More Than 1 Bit Per Subchannel"
D.	Petitioner Has Not Established a Reasonable Likelihood That Claims 16-18 Would Have Been Obvious
	1. The Combination of Milbrandt, Chang, Hwang, and ANSI T1.413 Fails to Disclose All Limitations of Claims 16-1843
	Petitioner Does Not Provide Sufficient Articulated Reasons to Combine The Asserted References



	a) Because Milbrandt Already Discloses How To Determine Noise and When to Adjust Power/Gain, Combining Chang's Teachings Would Have Been Redundant and Unneeded	.48
	b) Chang's Method of Measuring Background Noise With Additional Equipment and a Service Technician Visit Is Specifically Taught Away From by Milbrandt and Would Change the Fundamental Principle of Operation of Milbrandt	.50
	c) There is No Evidence of a Reasonable Expectation of Success In Incorporating Chang's Overall Concept of Measuring Background Noise Into Milbrandt, Without Using Chang's Additional Equipment and Service Technician Visit	.50
	d) Petitioner Provides Only Circular and Illogical Reasons For Combining Hwang with Milbrandt/Chang	.57
V.	CONCLUSION	.60
CER'	TIFICATE OF WORD COUNT	.61



I. INTRODUCTION

Patent Owner TQ Delta, LLC ("Patent Owner") submits this preliminary response to the Petition filed by Cisco, Inc. ("Cisco" or "Petitioner") requesting *inter partes* review of claims 9-12, 15-18, and 21 of U.S. Pat. No. 8,238,412 ("the '412 patent").

This is the third IPR Petition filed against the '412 patent (and the second petition against the '412 patent filed by Petitioner Cisco¹). The first petition, filed in IPR2016-00430 by Arris Group, Inc. (a party similarly situated with Cisco as a supplier of products accused of infringement in the related litigation identified in the Petition), was recently denied institution by the Board. (*See* IPR2016-00430 at Paper 9, Decision Denying Institution.) In that decision, the Board found that Arris had (1) failed to show that the asserted prior art disclosed all limitations of the claims of the '412 patent (including the same claims challenged here), and/or (2) failed to provide sufficient rationale to support obviousness. (*See id.*)

Now, Cisco is attempting another bite at the apple of attacking the '412 patent, but using different prior art references than those asserted by Arris. This Petition, however, is deficient for similar reasons. Here, Petitioner Cisco raises a



¹Cisco also filed a petition in IPR2016-001008, challenging claims 1-8, 13-14, and 19 of the '412 patent.

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