

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.
Petitioner,

v.

ANDREA ELECTRONICS INC.,
Patent Owner.

Patent No. 6,363,345

Inter Partes Review No. IPR2017-00626

Petitioner's Reply

Table of Contents

I.	Introduction.....	1
II.	Claim Construction	2
III.	<u>Hirsch</u> Anticipates Claims 1-3, 12-13, 21, 23, and 38.....	2
IV.	<u>Hirsch</u> and <u>Martin</u> Render Claims 4-11, 25, 39-42, and 46 Obvious.....	3
	A. <u>Martin</u> Discloses the “Future Minimum” of Claims 4 and 39	3
	1. Andrea’s Argument Does Not Apply Where the <u>Martin</u> Algorithm Is Configured to Use 1 Sub-Window	5
	2. Andrea’s Argument Depends on the Non-Existent Claim Requirement that a “Future Minimum” Be a Minimum “Across the Entire Window L”	8
	B. <u>Martin</u> Discloses Setting a Current Minimum to a Future Minimum Value “Periodically,” as Required by Claim 6.....	11
	C. <u>Martin</u> Discloses the “Current Minimum Value” of Claim 10.....	13
	D. A Skilled Artisan Would Have Combined <u>Hirsch</u> and <u>Martin</u>.....	16
	E. Andrea’s Criticisms of Dr. Hochwald Are Unfounded	21
V.	A POSA Would Have Considered it Obvious to Modify <u>Hirsch</u> and <u>Martin</u> with Conventional Spectral Subtraction Techniques	22
	A. A POSA Would Have Combined <u>Hirsch</u> with <u>Martin</u> and <u>Boll</u>... 	23
	B. A POSA Would Have Combined <u>Hirsch</u> with <u>Boll</u> and <u>Arslan</u>....	24
	C. A POSA Would Have Combined <u>Hirsch</u> with <u>Martin</u> and <u>Uesugi</u>.....	25
VI.	Conclusion	26

TABLE OF AUTHORITIES

Cases	Page(s)
<i>KSR Intern. Co. v. Teleflex Inc.</i> , 127 S.Ct. 1727 (2007).....	19, 21, 24, 25

Exhibit List

Exhibit #	Reference Name
1001	U.S. Patent No. 6,363,345
1002	U.S. Patent No. 6,363,345 File History
1003	Declaration of Bertrand Hochwald
1004	[Reserved]
1005	H. G. Hirsch and C. Ehrlicher, "Noise estimation techniques for robust speech recognition," Proc. IEEE Int. Conf. Acoustics, Speech, Signal Processing, vol. 1, pp. 153 -156, 1995 ("Hirsch")
1006	Rainer Martin, "An Efficient Algorithm to Estimate the Instantaneous SNR of Speech Signals," Proc. Eurospeech, pp. 1093-96, 1993 ("Martin")
1007	Letter from Technische Informationsbibliothek re: Proc. Eurospeech 1993 (2 Jan. 2017)
1008	Proc. Eurospeech 1993 Vol. 2 Table of Contents from Technische Informationsbibliothek
1009	Steven F. Boll, "Suppression of Acoustic Noise in Speech Using Spectral Subtraction," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-27, No. 2, April 1979 ("Boll")
1010	U.S. Patent No. 5,550,924 to Helf ("Helf")
1011	U.S. Patent No. 5,706,395 to Arslan ("Arslan")
1012	Excerpts from Deller et al., Discrete-Time Processing of Speech Signals (1993)
1013	Excerpt from Merriam-Webster Dictionary (1993)
1014	Excerpts from Oppenheim and Willsky, Signals and Systems (1997)
1015	U.S. Patent No. 5,459,683 to Uesugi
1016	Lim and Oppenheim, "Enhancement and Bandwidth Compression of Noisy Speech," <i>Proceedings of the IEEE</i> , vol. 67, no. 12, pp. 1586-1604, December 1979
1017	Affidavit of Service in <i>Andrea Elecs. v. Apple Inc.</i> , EDNY

Exhibit #	Reference Name
1018	<i>In the Matter of Certain Audio Processing Hardware and Software and Products Containing the Same</i> , Inv. No. 337-TA-949, Claim Construction Order (U.S.I.T.C. Jan. 27, 2016) (“949 CC Order”)
1019	<i>In the Matter of Certain Audio Processing Hardware and Software and Products Containing Same</i> , Inv. No. 337-TA-949, Complainant Andrea Electronics Corp.’s Initial Claim Construction Brief (U.S.I.T.C. Oct. 19, 2015) (“Andrea CC Br.”)
1020	<i>In the Matter of Certain Audio Processing Hardware and Software and Products Containing Same</i> , Inv. No. 337-TA-949, Commission Investigative Staff’s Initial <i>Markman</i> Brief (U.S.I.T.C. Oct. 19, 2015) (“OUII CC Br.”)
1021	Letter from the parties in 337-TA-949 informing ALJ they agreed to certain constructions (Nov. 10, 2015) (prior litigation)
1022	<i>In the Matter of Certain Audio Processing Hardware, Software, and Products Containing The Same</i> , Inv. No. 337-TA-1026, Verified Complaint Against Apple Inc. and Samsung Inc. Under Section 337 of the Tariff Act of 1930, as Amended (U.S.I.T.C. Sept. 19, 2016)
[NEW] 1023	Hochwald Reply Decl.
[NEW] 1024	Reserved
[NEW] 1025	Exhibit 2 from Hochwald Deposition
[NEW] 1026	Transcript from Deposition of Scott Douglas dated Jan. 17, 2018
[NEW] 1027	Exhibit 1 from Douglas Dep., Figure 27 depicting Current and Future Minima
[NEW] 1028	Exhibit 2 from Douglas Dep., Dr. Douglas’s mark up of Exhibit 1
[NEW] 1029	Exhibit 8 from Douglas Dep., Declaration of Scott Douglas in Support of Complainant Andrea’s Claim Construction Brief in Inv. No. 337-TA-949 (Oct. 19, 2015)
[NEW] 1030	Transcript from Deposition of Scott Douglas dated June 16, 2017, taken in Inv. No. 337-TA-1026

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