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

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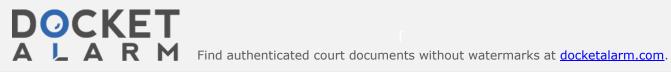


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127 S.Ct. 1727 (2007)	19, 21, 24, 25

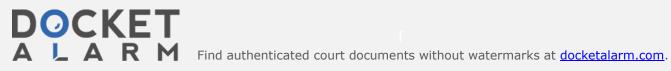


Exhibit List

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. Ehricher, "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 Andrea Elecs. v. Apple Inc., EDNY



Exhibit #	Reference Name
1018	In the Matter of Certain Audio Processing Hardware and Software and Products Containing the Same, Inv. No. 337-TA-949, Claim Construction Order (U.S.I.T.C. Jan. 27, 2016) ("949 CC Order")
1019	In the Matter of Certain Audio Processing Hardware and Software and Products Containing Same, 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	In the Matter of Certain Audio Processing Hardware and Software and Products Containing Same, Inv. No. 337-TA-949, Commission Investigative Staff's Initial Markman 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	In the Matter of Certain Audio Processing Hardware, Software, and Products Containing The Same, 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)
[<u>NEW</u>] 1023	Hochwald Reply Decl.
[<u>NEW</u>] 1024	Reserved
[<u>NEW</u>] 1025	Exhibit 2 from Hochwald Deposition
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[<u>NEW</u>] 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)
[<u>NEW</u>] 1030	Transcript from Deposition of Scott Douglas dated June 16, 2017, taken in Inv. No. 337-TA-1026



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