Page 1 UNITED STATES PATENT AND TRADEMARK OFFICE 1 2 BEFORE THE PATENT TRIAL AND APPEAL BOARD 3 IPR2018-00766 (U.S. Patent No. 7,391,791) IPR2018-00767 (U.S. Patent No. 8,942,252) 4 5 6 DEPOSITION OF: ATIF HASHMI, PH.D. - MARCH 8, 2019 7 SONOS, INC., 8 Petitioner, 9 v. 10 IMPLICIT, LLC, 11 Patent Owner. 12 13 PURSUANT TO NOTICE AND AGREEMENT, the 14 DEPOSITION OF ATIF HASHMI, PH.D., was taken on behalf 15 of the Petitioner at 1475 California Street, Denver, 16 Colorado 80202, on March 8, 2019, at 9:33 a.m., before 17 Doreen Girdeen, Certified Realtime Reporter, Registered 18 19 Merit Reporter, and Notary Public within Colorado. 20 21 22 23 24 25 David Feldman Worldwide

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Page 2 1 A P P E A R A N C E S 2 For the Petitioner: COLE B. RICHTER, ESQ. SEAN M. SULLIVAN, ESQ. 3 Lee Sullivan Shea & Smith LLP 4 656 West Randolph Street Suite 5W 5 Chicago, Illinois 60661 (312) 754-9602 6 richter@ls3ip.com sullivan@ls3ip.com 7 For the Patent Owner: CHRISTIAN HURT, ESQ. 8 The Davis Firm, PC 213 North Fredonia Street Suite 230 9 Longview, Texas 75601 (903) 230-9090 10 churt@davisfirm.com 11 Also Present: None 12 13 14 15 16 17 18 19 20 21 22 23 24 25 David Feldman Worldwide 800-642-1099

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Page 3 1 INDEX 2 PAGE EXAMINATION OF ATIF HASHMI, PH.D.: March 8, 2019 3 4 By Mr. Richter: 5 By Mr. Hurt: 184 5 6 INITIAL REFERENCE DEPOSITION EXHIBITS 7 169 Exhibit 2019 Timesync send function 8 Exhibit 2051 Source code that corresponds 91 9 to the file speaker.c 10 Exhibit 2057 Source code that corresponds 117 to the file timesync.rule file 11 Exhibit 2088 Source code that corresponds 85 12 to the file sampleclock.c 13 (Electronically marked.) 14 15 PREVIOUSLY MARKED DEPOSITION INITIAL EXHIBITS: REFERENCE 16 Exhibit 1001 Copies of the 791 and 252 patents 26 17 Exhibit 1009 Dr. Roman Chertov's declaration 50 18 Exhibit 2043 Source code that corresponds to the 82 19 file avidemux.c. 20 Exhibit 2080 Atif Hashmi's declaration (Sonos v. 8 Implicit, IPR2018-0766, -0767) 21 Exhibit 2081 Claim charts U.S. Patent No. 9 22 7,391,791 23 Exhibit 2082 Claim charts U.S. Patent No. 9 8,942,252 24 25

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1	I N D E X, Continued	
2	INFORMATION REQUESTED	:
	(None)	
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4	QUESTIONS INSTRUCTED NOT TO	ANSWER:
	(None)	
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Page 5 1 ATIF HASHMI, PH.D., 2 having been first duly sworn to state the whole truth, 3 testified as follows: EXAMINATION 4 5 BY MR. RICHTER: Good morning, Dr. Hashmi. 6 Q. 7 Could you please state and spell your full name for the record. 8 9 Yes. My full name is Atif Hashmi. Α. A-t-i-f 10 H-a-s-h-m-i. 11 What's your home address? Q. 12 4974 Bridgepoint Place, Union City, Α. California. 13 14 Q. How many times have you been deposed? 15 Three times before. Α. 16 Q. And were those all patent cases? 17 Α. No. 18 Q. How many patent cases have you been deposed 19 in? 20 Α. None. 21 Q. Just generally, what was the nature of each 22 of those three cases in which you gave deposition testimony? 23 24 Α. Source code analysis. 25 Q. And that's source code analysis for all three

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