Doc code: IDS Doc description: Information Disclosure Statement (IDS) Filed PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Application Number 16052623 Filing Date 2018-08-02 First Named Inventor Manli Zhu Art Unit 3992 Examiner Name ESCALANTE, OVIDIO Attorney Docket Number CreativeTech\_01RECon

				U.S.I	PATENTS	
Examiner Initial*	Cite No Patent Number Kind Code1 Issue Date Name of Patentee or Applic of cited Document		Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1	10062372	B1	2018-08-28	Amazon Technologies, Inc., Seattle, WA(US)	
	2	9431982	B1	2016-08-30	Amazon Technologies, Inc., Seattle, WA(US)	
	3	9229526	B1	2016-01-05	Amazon Technologies, Inc., Reno, NV(US)	
	4	9818425	B1	2017-11-14	Amazon Technologies, Inc., Seattle, WA(US)	
	5					
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			U.S.P	ATENT APPLI	CATION PUBLICATIONS	
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20080112574	A1	2008-05-15	AMI Semiconductor, Inc., Rocatello, ID	
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			Applic	Application Number			16052623				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)				Filing Date			2018-08-02				
				First Named Inventor Manli		Zhu					
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	1	20090128221	KR		A	2009-12-1	<sub>5</sub>   E	SAMSUNG ELECTRONICS CO KR]	LTD		$\boxtimes$
	2										
If you wis	h to ac	dd additional Foreign P	atent Do	cument	citation	informatio	n plea	ase click the Add	buttor	1	
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	1	IVAN J. TASHEV, Sound Capture and Processing Practical Approaches, 2009 Wiley Publisher, 196 pages									
	2	MANLI ZHU, QI (PETER) LI, JOSHUA J. HAJICEK Circular and Linear Microphone Arrays for Robust Speech Recognition and Conference Phone, ICASSP 2009 Thursday, April 23, 2009, 1 page									
	3	HARRY L. VAN TREES Arrays and Spatial Filters, Optimum Array Processing: Part IV of Detection, Estimation, and Modulation Theory, John Wiley & Sons, Inc., 73 pages									
	4	Introducing First Low-cost, Light-weight, and Portable USB Array Microphone for Consumer Market, LI CREATIVE TECHNOLOGIES, INC., Feb 2. 2010, 1 page									

	Application Number		16052623	
INCORMATION BIOOLOGUES	Filing Date		2018-08-02	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		3992	
(Not for Sabinission under or or it issue	Examiner Name	ESCA	ALANTE, OVIDIO	
	Attorney Docket Numb	er	CreativeTech_01RECon	

5	Crispmic USB-Based Microphone Array for Laptops and PCs LI CREATIVE TECHNOLOGIES, INC. 2 pages	
6	MATTHIAS WOLFEL AND JOHN MCDONOUGH DISTANT SPEECH RECOGNITION A John Wiley and Sons, Ltd. Publication, 2009, 592 pages	
7	DARPA 172 Phase I Selections from the 07.2 Solicitation, 69 pages	
8	DOH H. JOHNSON and DAN E. DUDGEON Array Signal Processing: Concepts and Techniques, 1993 PRENTICE HALL SIGNAL PROCESSING SERIES, 554 pages	
9	Group Videoconferencing Systems: Video Made Easy HD5000 Series, Multimedia Workgroup Conferencing System, Installation & Setup Guide, 70 pages	
10	ANDREA DA-350 MICROPHONE PERFORMANCE, 1 page	
11	VCON - SOLUTIONS - VIDEOCONFERENCING - GROUP VIDEO PRODUCTS MediaConnect 9000 21 Sep 2003 - 8 Feb 2004, 1 page	
12	DA-350 HANDS FREE LINEAR ARRAY MICROPHONE, 1 page	
13	DA-350 AUTO ARRAY 25 Feb 2006- 29 Jun 2016, 1 page	
14	VCON Group Videoconferencing Systems HD4000 Software-only Multimedia Videoconferencing Version 3.5, 50 pages	
15	MediaConnect 9000 A workgroup conferencing system for medium and large room environments, 1 page	



	Application Number	16052623		
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INFORMATION DISCLOSURE	First Named Inventor Manli		Zhu	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		3992	
(Not for submission under 57 of 11.55)	Examiner Name E		ESCALANTE, OVIDIO	
	Attorney Docket Numb	er	CreativeTech_01RECon	

16	VCON Group Videoconferencing Systems HD5000 Series Rollabout and Compact Systems Installation & Setup Guide, 74 pages	
17	BARUCH BERDUGO, MIRIAM A. DORON, JUDITH ROSENHOUSE, HAIM AZHARI On direction finding of an emitting source from time delays 33 pages	
18	EchoStop, Digital Noise Reduction Technology, 1 page	
19	VCON - Hardware Addons - Introducing VoiceFinder, 23 Sep 2003 - 25 Feb 2004, 2 pages	
20	Digital Super Directional Array (DSDA® 2.0) Far-Field Microphone Technology, 1 page	
21	HARRY L. VAN TREES Optimum Array Processing, Part IV of Detection, Estimation, and Modulation Theory A JOHN WILEY & SONS, INC., PUBLICATION, 192 pages	
22	CHARLES H. KNAPP and G. CLIFFORD CARTER The Generalized Correlation Method for Estimation of Time Delay IEEE transactions on acoustics, speech, and signal processing, Vol, ASSP-24, no. 4, August 1976, 8 pages	
23	PureAudio 2.0 Noise Reduction Algorithm, 1 page	
24	ANDREA'S TECHNOLOGIES OVERVIEW 21 Oct 2001 - 11 Sep 2011, 4 pages	
25	VCON - Hardware Addons - VoiceFinder 23 Sep 2003 - 8 Feb 2004, 1 page	
26	JOSEPH MARASH DSDA, Andrea Electronics Corporation Technology, 4 pages	



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Art Unit		3992			
Examiner Name ESCA		LLANTE, OVIDIO			
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