

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/05a (02-18)

Approved for use through 11/30/2020. OMF 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( 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.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	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					

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION 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	

**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

2						
---	--	--	--	--	--	--

If you wish to add additional U.S. Published Application citation information please click the Add button.

**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>1</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	20090128221	KR	A	2009-12-15	SAMSUNG ELECTRONICS CO LTD [KR]		<input checked="" type="checkbox"/>
	2							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	IVAN J. TASHEV, Sound Capture and Processing Practical Approaches, 2009 Wiley Publisher, 196 pages	<input type="checkbox"/>
	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	<input type="checkbox"/>
	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	<input type="checkbox"/>
	4	Introducing First Low-cost, Light-weight, and Portable USB Array Microphone for Consumer Market, LI CREATIVE TECHNOLOGIES, INC., Feb 2, 2010, 1 page	<input type="checkbox"/>

**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

5	Crispmic USB-Based Microphone Array for Laptops and PCs LI CREATIVE TECHNOLOGIES, INC. 2 pages	<input type="checkbox"/>
6	MATTHIAS WOLFEL AND JOHN MCDONOUGH DISTANT SPEECH RECOGNITION A John Wiley and Sons, Ltd. Publication, 2009, 592 pages	<input type="checkbox"/>
7	DARPA 172 Phase I Selections from the 07.2 Solicitation, 69 pages	<input type="checkbox"/>
8	DOH H. JOHNSON and DAN E. DUDGEON Array Signal Processing: Concepts and Techniques, 1993 PRENTICE HALL SIGNAL PROCESSING SERIES, 654 pages	<input type="checkbox"/>
9	Group Videoconferencing Systems: Video Made Easy HD5000 Series, Multimedia Workgroup Conferencing System, Installation & Setup Guide, 70 pages	<input type="checkbox"/>
10	ANDREA DA-350 MICROPHONE PERFORMANCE, 1 page	<input type="checkbox"/>
11	VCON - SOLUTIONS - VIDEOCONFERENCING - GROUP VIDEO PRODUCTS MediaConnect 9000 21 Sep 2003 - 8 Feb 2004, 1 page	<input type="checkbox"/>
12	DA-350 HANDS FREE LINEAR ARRAY MICROPHONE, 1 page	<input type="checkbox"/>
13	DA-350 AUTO ARRAY 25 Feb 2006 - 29 Jun 2016, 1 page	<input type="checkbox"/>
14	VCON Group Videoconferencing Systems HD4000 Software-only Multimedia Videoconferencing Version 3.5, 50 pages	<input type="checkbox"/>
15	MediaConnect 9000 A workgroup conferencing system for medium and large room environments, 1 page	<input type="checkbox"/>

**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

16	VCON Group Videoconferencing Systems HD5000 Series Rollabout and Compact Systems Installation & Setup Guide, 74 pages	<input type="checkbox"/>
17	BARUCH BERDUGO, MIRIAM A. DORON, JUDITH ROSENHOUSE, HAIM AZHARI On direction finding of an emitting source from time delays 33 pages	<input type="checkbox"/>
18	EchoStop, Digital Noise Reduction Technology, 1 page	<input type="checkbox"/>
19	VCON - Hardware Addons - Introducing VoiceFinder, 23 Sep 2003 - 25 Feb 2004, 2 pages	<input type="checkbox"/>
20	Digital Super Directional Array (DSDA® 2.0) Far-Field Microphone Technology, 1 page	<input type="checkbox"/>
21	HARRY L. VAN TREES Optimum Array Processing, Part IV of Detection, Estimation, and Modulation Theory A JOHN WILEY & SONS, INC., PUBLICATION, 192 pages	<input type="checkbox"/>
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	<input type="checkbox"/>
23	PureAudio 2.0 Noise Reduction Algorithm, 1 page	<input type="checkbox"/>
24	ANDREA'S TECHNOLOGIES OVERVIEW 21 Oct 2001 - 11 Sep 2011, 4 pages	<input type="checkbox"/>
25	VCON - Hardware Addons - VoiceFinder 23 Sep 2003 - 8 Feb 2004, 1 page	<input type="checkbox"/>
26	JOSEPH MARASH DSDA, Andrea Electronics Corporation Technology, 4 pages	<input type="checkbox"/>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( 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

If you wish to add additional non-patent literature document citation information please click the Add button			
<b>EXAMINER SIGNATURE</b>			
Examiner Signature	/OVIDIO ESCALANTE/	Date Considered	12/10/2019
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			
<small><sup>1</sup> See Kind Codes of USPTO Patent Documents at <a href="http://www.USPTO.GOV">www.USPTO.GOV</a> or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.</small>			

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.