

Doc code: IDS

PTO/SB/08a (02-18)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 11/30/2020. OMB 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	7068801	B1	2006-06-27	National Research Council of Canada, Ottawa(CA)	
	2	9820036	B1	2017-11-14	Amazon Technologies, Inc., Seattle, WA(US)	
	3	9978387	B1	2018-05-22	Amazon Technologies, Inc., Seattle, WA(US)	
	4	9432769	B1	2016-08-30	Amazon Technologies, Inc., Seattle, WA(US)	
	5	9521249	B1	2016-12-13	Amazon Technologies, Inc., Reno, NV(US)	
	6	9658738	B1	2017-05-23	Amazon Technologies, Inc., Reno, NV(US)	
	7	10304475	B1	2019-05-28	Amazon Technologies, Inc., Seattle, WA(US)	
	8	9390723	B1	2016-07-12	Amazon Technologies, Inc., Seattle, WA(US)	

<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	

	9	10229698	B1	2019-03-12	Amazon Technologies, Inc., Seattle, WA(US)	
	10	9678559	B1	2017-06-13	Amazon Technologies, Inc., Seattle, WA(US)	
	11	6198693	B1	2001-03-06	Andrea Electronics Corporation, Melville, NY(US)	
	12	9423886	B1	2016-08-23	Amazon Technologies, Inc., Reno, NV(US)	
	13	9747920	B2	2017-08-29	Amazon Technologies, Inc., Seattle, WA(US)	
	14	9589575	B1	2017-03-07	Amazon Technologies, Inc., Seattle, WA(US)	
	15	10147441	B1	2018-12-04	Amazon Technologies, Inc., Seattle, WA(US)	
	16	9966059	B1	2018-05-08	Amazon Technologies, Inc., Seattle, WA(US)	

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	20180182387	A1	2018-06-28	Amazon Technologies, Inc., Seattle, WA(US)	

<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		

	2	20150006176	A1	2015-01-01	Rawles LLC, Wilmington, DE(US)	
	3	20070055505	A1	2007-03-08	Cochlear Limited, Lane Cove, nsw (AU)	
	4	20060153360	A1	2006-07-13	Kellermann et al.	
	5	20090141907	A1	2009-06-04	Samsung Electronics Co., Ltd., Suwon-si(KR)	

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>2</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	2018118895	WO	A2	2018-06-28	Amazon Technologies, Inc., Seattle, WA(US)		<input type="checkbox"/>
	2	2013155098	WO	A1	2013-10-17	Amazon Technologies, Inc., Reno, NV(US)		<input type="checkbox"/>
	3	2017105998	WO	A1	2017-06-22	Amazon Technologies, Inc., Seattle, WA(US)		<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>
--------------------	---------	---	----------------

<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

1	SCOTT MATTHEW GRIEBEL, A Microphone Array System for Speech Source Localization, Denoising and Dereverberation, Thesis, The Division of Engineering and Applied Sciences, Harvard University, Cambridge, Massachusetts, April 2002 163 pages	<input type="checkbox"/>
2	CHA ZHANG, DINEI FLORENCIO, DEMBA E. BA, ZHENGYOU ZHANG, Maximum Likelihood Sound Source Localization and Beamforming for Directional Microphone Arrays in Distributed Meetings, Journal of Latex Class files, Vol 6, No. 1, January 2007, 10 pages	<input type="checkbox"/>
3	MICHAEL BRANDSTEIN, DARREN WARD Microphone Arrays, Signal Processing Techniques and Applications Springer-Verlag, Berlin, Heidelberg, New York in 2001, 401 pages	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

#### EXAMINER SIGNATURE

Examiner Signature	/OVIDIO ESCALANTE/	Date Considered	01/16/2020
--------------------	--------------------	-----------------	------------

\*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.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) 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.

<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

### CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

### SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/a tankha/	Date (YYYY-MM-DD)	2020-01-03
Name/Print	Ashok Tankha	Registration Number	33802

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

# 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.