505256065 12/28/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VAHID KHANAGHA	03/31/2017

RECEIVING PARTY DATA

Name:	OMNISPEECH LLC	
Street Address:	4467 TECHNOLOGY DRIVE	
City:	COLLEGE PARK	
State/Country:	MARYLAND	
Postal Code:	20742	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16235075

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	TIMOTHY J. MAIER	
SIGNATURE:	/Timothy J. Maier/	
DATE SIGNED:	12/28/2018	

Total Attachments: 1

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PATENT 505256065 REEL: 047994 FRAME: 0626

DECLARATION AND ASSIGNMENT

Title of Invention: A pitch detection algorithm based on PWVT of Teager Energy Operator

DECLARATION As a below named inventor, I hereby declare that: This declaration is directed to: X The attached application, or United States application or PCT international application number ________, filed on _______ The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. ASSIGNMENT WHEREAS, I. Valid KHANAGHA, whose post office address is c/o OmniSpeech LLC, 4467 Technology Drive, College Park, MD 20742, hereinafter referred to as Assienor, am the owner of useful improvements in A prich detection algorithm based on PWVT of Teager Energy Operator (hereinafter referred to as the INVENTION) for which the above application for United States Letters Patent was filed on: Senal No.: 15476051 31-MAR-2017 established by PCT International Patent Application No. filed: designating the United States of America; WHEREAS, OmniSpeech LLC whose post office address is 4467 Technology Drive, College Park, MD 20742, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States; NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I. ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIONEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation in part and reissue of said application. ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said Investion, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNEE is and to said INVENTION, all without further consideration. ASSIGNEE is and to said INVENTION, all without further consideration. without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the INVENTION that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of Assigner that lawfully may be required of Assignore in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S hears, executors, administrators and other legal representatives. ALSO, Assissors hereby authorizes and requests the Director of the U.S. Patent and Trademark office to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for Assignee's sole use and behoof, and for the use and behoof of ASSIGNES legal representatives and successors, to the full end of the term for which such Letters Paicra may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made. ASSIGNOR authorizes any member of the from of Mater & Mater, PLLC to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office. Legal Name of Inventor: Valud KHANAGHA x 03/31/2014 Inventor's Signature

> PATENT REEL: 047994 FRAME: 0627

RECORDED: 12/28/2018