

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID C. BRADLEY	05/13/2016
YAO HUANG MORIN	05/26/2016
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<b>Street Address:</b>	10350 SCIENCE CENTER DRIVE
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15016801
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<b>ATTORNEY DOCKET NUMBER:</b>	077534.12
<b>NAME OF SUBMITTER:</b>	ILAN N. BARZILAY
<b>SIGNATURE:</b>	/Ilan N. Barzilay/
<b>DATE SIGNED:</b>	07/12/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 5</b>	
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**PATENT**

**REEL: 039136 FRAME: 0698**

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 15/016,801  
Filing Date: February 5, 2016

Attorney Docket No. 077534.12

**PARTIES TO THE ASSIGNMENT**

Assignor(s):

**DAVID C. BRADLEY**  
10350 Science Center Drive  
Suite 140  
San Diego, CA 92121

**YAO HUANG MORIN**  
10350 Science Center Drive  
Suite 140  
San Diego, CA 92121

Assignee:

KnuEdge, Inc.  
10350 Science Center Drive  
Suite 140  
San Diego, CA 92121

**AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "HARMONIC  
FEATURE PROCESSING FOR REDUCING NOISE" (Invention) for which a non-provisional application for  
United States Letters Patent

- ☒ was filed on February 5, 2016 and accorded U.S. application no. 15/016,801; or
- ☐ will be filed concurrently with the submission of this executed PATENT ASSIGNMENT for  
recording.

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of Seyfarth  
Shaw LLP, associated with Customer No. 136045, to insert in the header above and here in parentheses  
(U.S. application no. 15/016,801, filed February 5, 2016) this application's U.S. application number and  
filing date, when known.

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 15/016,801  
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WHEREAS, ASSIGNEE, a corporation of the Delaware, is desirous of acquiring the entire right, title and interest in and to the Invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said Invention and any improvements thereto, said Application and any and all letters patent which may be granted for said Invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all provisional, divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said Invention, application and all letters patent on said Invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said Invention, for litigation regarding said letters patent, or for the purpose of protecting title to said Invention or letters patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/016,801  
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accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said letters patent before or after issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Invention or said application, and testify in any legal proceeding, assist in the preparation of any other patent property relating to the application and the Invention or any improvements made thereto, sign/execute all lawful papers, provide all requested documents, execute and make all rightful oaths and/or declarations in connection with the application and the Invention including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Invention in all countries. These provisions are binding upon our heirs, legal representatives, administrators, and assigns.

CORRESPONDENCE ADDRESS

I hereby direct all correspondence and telephone calls in connection with this application be addressed to the number associated with the customer number listed below, which is:

Customer No.

136045

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 15/016,801  
Filing Date: February 5, 2016

Attorney Docket No. 077534.12

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 15/016,801 filed on February 5, 2016; or  
☐ PCT international application number \_\_\_\_\_ filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the 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.

Legal name of inventor: **DAVID C. BRADLEY**

5/13/16  
Date

[Signature]  
Inventor Signature

**WITNESSED BY:**

5/13/16  
Date

[Signature]  
Witness (Signature)  
DEVON PERRYMAN  
Witness (Printed Name)

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.53)

U.S. Patent Appln. No. 15/016,801  
Filing Date: February 5, 2016

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DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 15/016,801 filed on February 5, 2016; or  
☐ PCT International application number \_\_\_\_\_ filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the 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.

Legal name of inventor: YAO HUANG MORIN

May 26, 2016  
Date

[Signature]  
Inventor Signature

WITNESSED BY:

May 26, 2016  
Date

[Signature]  
Witness (Signature)  
Peter Ouyang  
Witness (Printed Name)