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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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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>   |
| JACQUES Y. GUIGNE   | 04/12/2018              |
| <b>RECEIVING PARTY DATA</b>   |                         |
| <b>Name:</b>  | ACOUSTIC ZOOM, INC.     |
| <b>Street Address:</b>  | 685 ST. THOMAS LINE     |
| <b>City:</b>  | PARADISE                |
| <b>State/Country:</b>   | CANADA                  |
| <b>Postal Code:</b>   | A1L 3V2                 |
| <b>PROPERTY NUMBERS Total: 1</b>  |                         |
| <b>Property Type</b>  | <b>Number</b>           |
| <b>Application Number:</b>  | 14708826                |
| <b>CORRESPONDENCE DATA</b>  |                         |
| <b>Fax Number:</b>  | (832)201-4829           |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                         |
| <b>Phone:</b>   | 713-539-5006            |
| <b>Email:</b>   | faginr@xp-patents.com   |
| <b>Correspondent Name:</b>  | RICHARD A. FAGIN        |
| <b>Address Line 1:</b>  | 19901 SOUTHWEST FREEWAY |
| <b>Address Line 4:</b>  | SUGAR LAND, TEXAS 77479 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | PAG-18-04               |
| <b>NAME OF SUBMITTER:</b>   | RICHARD A. FAGIN        |
| <b>SIGNATURE:</b>   | /Richard A. Fagin/      |
| <b>DATE SIGNED:</b>   | 04/12/2018              |
| <b>Total Attachments: 2</b>   |                         |
| source=PAG-US-9304224-assignment-signed#page1.tif   |                         |
| source=PAG-US-9304224-assignment-signed#page2.tif   |                         |

## Assignment – Worldwide

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

Acoustic Zoom, Inc.

having the following address:

685 St. Thomas Line  
Paradise A1L 3V2, Newfoundland and Labrador  
Canada

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention known by the following title:

**Stationary star-shaped antenna method for manipulating focused beamformed, shaped fields and beamsteered electromagnetic signal from subtle sedimentary stratigraphic formations deep in the earth**

for which the undersigned has/have executed an application for patent in the United States of America, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

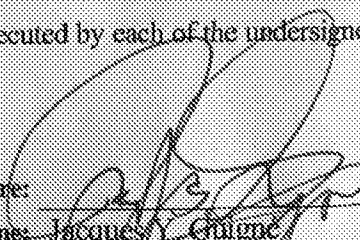
1. To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
2. To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY;

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the attorney named in a separate Power of Attorney the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

APRIL 12, 2018  
Date

Signature:   
Print or Type Name: Jacques Y. Guigne

\_\_\_\_\_  
Date

Signature: \_\_\_\_\_  
Print or Type Name: \_\_\_\_\_

\_\_\_\_\_  
Date

Signature: \_\_\_\_\_  
Print or Type Name: \_\_\_\_\_

\_\_\_\_\_  
Date

Signature: \_\_\_\_\_  
Print or Type Name: \_\_\_\_\_

\_\_\_\_\_  
Date

Signature: \_\_\_\_\_  
Print or Type Name: \_\_\_\_\_

This Assignment must be signed before a Notary Public for one of the States in the United States or corresponding foreign official authorized to administer oaths.

Province of Newfoundland and Labrador

County of Canada

Before me personally appeared: Jacques Guigne  
1<sup>st</sup> Inventor

2<sup>nd</sup> Inventor

3<sup>rd</sup> Inventor

4<sup>th</sup> Inventor

each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: Guillaume van Ooel B.C.

NOTARY PUBLIC

When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 14/708,826

Filing Date: May 11, 2015

Notary Public

My commission expires: \_\_\_\_\_

