## 505637530 08/23/2019

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Timothy James O'Shea	01/10/2019
Thomas Charles Clancy	01/09/2019

#### **RECEIVING PARTY DATA**

Name:	VIRGINIA TECH INTELLECTUAL PROPERTIES, INC.	
Street Address:	1700 KRAFT DRIVE	
Internal Address:	SUITE 2250	
City:	BLACKSBURG	
State/Country:	VIRGINIA	
Postal Code:	24060	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16549011

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	44837-0009002	
NAME OF SUBMITTER:	SHARON M. ALLEN	
SIGNATURE:	/Sharon M. Allen/	
DATE SIGNED:	08/23/2019	

**Total Attachments: 2** 

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PATENT 505637530 REEL: 050150 FRAME: 0766

Attorney Docket No.: 44837-0009001

### **ASSIGNMENT**

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, TIMOTHY JAMES O'SHEA, and T. CHARLES CLANCY, III, each individually assign to VIRGINIA TECH INTELLECTUAL PROPERTIES, INC., a corporation formed under the laws of Delaware and having a principal place of business at 1700 Kraft Drive, Suite 2250, Blacksburg, VA 24060, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "PROCESSING OF COMMUNICATIONS SIGNALS USING MACHINE LEARNING," and was filed in the United States Patent and Trademark Office on May 14, 2018, as application 15/978,920 (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

PATENT REEL: 050150 FRAME: 0767

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Witnessed by: Signature: Date: 40/9
THOMAS CHARLES CLANCY, III
Witnessed by: Andrew Codmas  Signature: Date: 1/9/2019
The Assignee hereby acknowledges and accepts the foregoing assignment.  Assignee: VIRGINIA TECH INTELLECTUAL PROPERTIES, INC.
Signature: Date:
Name:
Title:
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PATENT REEL: 050150 FRAME: 0768