

## 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>
BRENT R. TRENHAILE	08/05/2015
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14822821
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<b>NAME OF SUBMITTER:</b>	TODD A. RATHE
<b>SIGNATURE:</b>	/Todd A. Rathe/
<b>DATE SIGNED:</b>	08/13/2015
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 2</b>	
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## DECLARATION AND ASSIGNMENT

1. **Declaration** As the below named declarant-inventor(s) ("declarant" or "inventor"), each declarant-inventor who signs below hereby declares that: (1) the application identified below was made or was authorized to be made by each declarant, (2) the declarant believes himself or herself to be the original inventor or an original joint inventor of a claimed invention in the application, (3) the declarant hereby acknowledges that any willful false statement made in this declaration of inventorship or document is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both, (4) the declarant states that he or she has reviewed and understand the contents of the above identified application, including the claims, and (5) the declarant acknowledges that he or she is aware of the duty to disclose information (e.g., any prior art or publication) which is material to patentability as defined in 37 CFR § 1.56.

2. **Assignment** WHEREAS, the co-inventors, COLIN E. DAS of 121 Franklin St., Apt. 1, Cedar Falls, Iowa 50613; and BRENT R. TRENHAILE of 1220 Dorchester Drive, Champaign, Illinois 61821; respectively, own the entire right title and interest to an invention (the "invention" which is the subject of a United States patent application ("the Application") entitled:

### BOUNDARY SIGNAL DETECTION

and whereas the below named declarant-inventor(s) are subject to an obligation to assign the invention to The Board of Trustees of the University of Illinois, a body corporate and politic, having a place of business at 352 Henry Administration Building, 506 South Wright Street, Urbana, IL 61801 ("Assignee"), which each below named declarant-inventor has executed on the date indicated below next to each inventor's name.

Pursuant to an agreement between each below named declarant-inventor and Assignee or other legal obligation supported by good and valuable consideration, the receipt of which is acknowledged by each below named inventor, each below named declarant-inventor (individually and collectively "Assignor"), agrees to assign, and hereby assigns to Assignee all of Assignor's title, right and interest in the Invention and Application, including the assigned rights as more fully set forth herein. If any below listed declarant-inventor is or was employed by a German subsidiary or affiliate of Assignee, at the conception or creation of the Invention, as required under German law on employee inventions, Assignee, or its German subsidiary or affiliate, laid claim on the Invention and Assignee became the owner of any rights in the Invention and Application as required under German law. If any inventor has previously assigned the same Invention or same Application to Assignee, instead of merely assigning all title, rights, and interest to Assignee; the Assignor acknowledges that all title, right and interest in the Invention and Application was previously assigned to Assignee and hereby assigns, without any reservation, any remaining rights in or to the Invention and Application that the Assignor may hold for whatever reason.

The assigned rights include, but are not limited to, all worldwide rights to file any United States patent applications, international patent applications, and any foreign patent applications, utility patent applications, design patent applications, copyrights, plant patent applications, utility model applications, or similar industrial property rights for the Invention described in the name of each inventor or in the name of the Assignee, as well as any right of priority to any patent or application of the United States or any other country or jurisdiction based on the Invention. The assigned rights include the right for the Assignee, or its legal representatives, to file any continuing, continuation, continuation-in-part, divisional, reissue, extension, or reexaminations of the Application or Invention, or any U.S., international, or foreign applications that claim priority based on the Application. These assigned rights are to be held and enjoyed by the Assignee, its successors or assigns, as fully and entirely as the same would have been held and enjoyed by each inventor had this assignment not been made.

Each below named inventor agrees to execute any and all documents which Assignee, its successors or assigns, deem necessary to transfer, acknowledge, or assign all of each inventor's rights in or to the Invention and Application to Assignee, its successors, or assigns. Each below named inventor agrees to execute all documents which Assignee, its successors or assigns deem expedient in connection with the

COLIN E. DAS  
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THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS

