

## 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>
JOSHUA DAVID HARMON	01/07/2019
HUIYAN WU	01/08/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CNH INDUSTRIAL AMERICA LLC
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<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	17557
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16245607
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	55469/CNHW-257
<b>NAME OF SUBMITTER:</b>	MATTHEW J. SUTCH
<b>SIGNATURE:</b>	/Matthew J. Sutch/
<b>DATE SIGNED:</b>	01/11/2019
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

THIS ASSIGNMENT, made on the date set forth below by, **Joshua David Harmon**, a resident of The United States, residing in Lititz, PA, **Huiyan Wu**, a resident of The United States, residing in Downingtown, PA, (hereinafter referred to as "the Assignor"), witnesseth:

WHEREAS, the Assignors have invented or co-invented certain improvements (hereinafter referred to as "the Invention") for which an application for Letters Patent has been filed in the United States Patent and Trademark Office, identified as Application No.

16/245,607, filed January 11, 2019 and entitled:

**"SYSTEM AND METHOD FOR DETECTING WORN OR DAMAGED  
COMPONENTS OF AN AGRICULTURAL MACHINE BASED ON  
ACOUSTIC DATA"**

; and

WHEREAS, **CNH Industrial America LLC**, a corporation duly organized under and pursuant to the laws of the State of Delaware, having a place of business at 500 Diller Ave., New Holland, Pennsylvania 17557, (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to the Invention and the application for Letters Patent, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and therefrom.

NOW, THEREFORE, for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in and to: (1) the Invention, (2) the application for Letters Patent, (3) any application for Letters Patent claiming benefit of the application for Letters Patent, including, when the application for Letters Patent is a non-provisional application for Letters Patent, any and all divisions, continuations, and continuations-in-part of the application for Letters Patent, (4) any and all Letters Patent or Patents (hereinafter referred to as "the Letters Patent or Patents") in the United States of America and all foreign countries which may be granted on the application for Letters Patent or an application claiming benefit of the application for Letters Patent, (5) any utility models and industrial designs claiming benefit of the application for Letters Patent, (6) any enhancements, improvements, and extensions thereon, (7) all rights of priority to the application for Letters Patent, and (8) all rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, the Hague Agreement Concerning the International Deposit of Industrial Designs, and all other treaties of like purposes ("Assigned Patent Rights"), the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which the Letters Patent or Patents may be

granted, as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby represent and warrant that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners or joint owners of the entire right, title, and interest in and to the Assigned Patent Rights and that the same are unencumbered and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that the Assignors shall execute all papers and documents, take all lawful oaths, make all lawful declarations, and do all acts necessary or required to be done for the procurement, protection, maintenance, enforcement, and defense of the Assigned Patent Rights;

The Assignors hereby authorize and request the Commissioner of Patents and Trademarks and any counterpart thereto of any and all countries foreign to the United States of America to issue, respectively, any Letters Patent or Patents of the United States and any Letters Patent or Patents of any foreign patent office resulting from the Assigned Patent Rights to the Assignee, as the Assignee of the Assigned Patent Rights, for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

The Assignors hereby grant the Assignee, an attorney of the Assignee, or an agent of the Assignee 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 or any foreign counterpart thereto for recordation of this document.


IN WITNESS WHEREOF, the Assignors have hereunto set his or her hands as of the date written below.

Date: JANUARY 7, 2019

  
Inventor - Joshua David Harmon

On this 7 day of JANUARY, 2019, before me personally appeared **Joshua David Harmon** known to me to be the person(s) whose name is subscribed to the within Assignment, and acknowledged that he executed the same for the purposes therein contained, and desires the same might be recorded as such.

Witness:



Date: 1/8/2019

Huiyan Wu  
Inventor - Huiyan Wu

On this 8<sup>th</sup> day of January, 2019, before me personally appeared **Huiyan Wu** known to me to be the person(s) whose name is subscribed to the within Assignment, and acknowledged that he executed the same for the purposes therein contained, and desires the same might be recorded as such.

Witness:

