

## 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>
COLIN JOSH HURD	11/15/2018
MARK WILLIAM BARGLOF	11/15/2018
RAHUL RAMAKRISHNAN	11/15/2018
QUINCY CALVIN MILLOY	11/15/2018
THOMAS ANTONY	11/15/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SMART AG, INC.
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<b>City:</b>	AMES
<b>State/Country:</b>	IOWA
<b>Postal Code:</b>	50010
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>PCT Number:</b>	US2018060562
<b>Application Number:</b>	16188114
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	00067-40220
<b>NAME OF SUBMITTER:</b>	SPYROS J. LAZARIS
<b>SIGNATURE:</b>	/SPYROS J. LAZARIS/
<b>DATE SIGNED:</b>	11/15/2018
<b>Total Attachments: 3</b>	

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## ASSIGNMENT OF PATENT AND INTELLECTUAL PROPERTY RIGHTS

WHEREAS, we, COLIN JOSH HURD, RAHUL RAMAKRISHNAN, MARK WILLIAM BARGLOF, QUINCY CALVIN MILLOY, AND THOMAS ANTONY, hereinafter referred to as Assignors, have invented the following Invention(s), titled:

- SAFETY SYSTEM FOR AUTONOMOUS OPERATION OF OFF-ROAD AND AGRICULTURAL VEHICLES USING MACHINE LEARNING FOR DETECTION AND IDENTIFICATION OF OBSTACLES, as described at least in the United States non-provisional patent application having serial number 16/188,114, filed on November 12, 2018; and
- SAFETY SYSTEM FOR AUTONOMOUS OPERATION OF OFF-ROAD AND AGRICULTURAL VEHICLES USING MACHINE LEARNING FOR DETECTION AND IDENTIFICATION OF OBSTACLES, as described at least in Patent Cooperation Treaty (PCT) patent application serial number PCT/US2018/060562, filed November 12, 2018,

and as described in all corresponding and/or related domestic, international, and foreign patent applications now existing or to be filed, whether or not those applications claim priority thereto, (referred to collectively as the "Patent Application(s)").

AND WHEREAS, SMART AG, INC., having its principal place of business at 2710 S. Loop Drive, Ames, IA 50010, (hereinafter the "Assignee"), desires to formally acquire all rights, title and interest in and to the Invention(s) and the Patent Application(s) (including any and all domestic, international and foreign non-provisionals, continuations, divisions, or other patents and patent applications claiming priority thereto, including and any renewals, reissues or extensions that may be filed or granted), as the employer of the Assignors.

Therefore, for good and valuable consideration, receipt of which is acknowledged, Assignors hereby assign, sell, and transfer all rights, title, and interest in the Invention(s) and Patent Application(s) (as well as such rights in any and all domestic, international, and foreign non-provisionals, continuations, divisions, or other patents and patent applications claiming priority thereto, including and any renewals, reissues or extensions) to Assignee for the entire term of the issued patent(s) and any reissues or extensions that may be granted and for the entire terms of any and all foreign patents or design registrations that may issue from international applications (as well as divisions, continuations in whole or part or substitute applications) claiming priority to any of the above Patent Application(s).

Assignors authorize the United States Patent & Trademark Office and any other intellectual property office in which corresponding and/or related patent applications are filed to issue any patents resulting from the Invention(s) or the Patent Application(s) to Assignee. The rights, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made.

Assignors further agree to: (a) cooperate with Assignee in the prosecution of the Patent Application(s) & foreign counterparts; (b) execute, verify, acknowledge & deliver all such further papers, including patent applications and instruments of transfer; and (c) perform such other acts as Assignee lawfully may request to obtain or maintain all patents and Patent Applications for the invention in any & all countries.

In testimony thereof, this Assignment is executed by said Assignors, as follows:

COLIN JOSH HURD: Colin Hurd

Executed on this \_\_\_\_\_th/st day of \_\_\_\_\_ 2018,

at \_\_\_\_\_, Iowa.

RAHUL RAMAKRISHNAN: Rahul

Executed on this \_\_\_\_\_th/st day of \_\_\_\_\_ 2018,

at \_\_\_\_\_, Iowa.

MARK WILLIAM BARGLOF: Mark Barglof

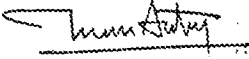
Executed on this \_\_\_\_\_th/st day of \_\_\_\_\_ 2018,

at \_\_\_\_\_, Iowa.

QUINCY CALVIN MILLOY: Quincy Calvin Milloy

Executed on this \_\_\_\_\_th/st day of \_\_\_\_\_ 2018,

at \_\_\_\_\_, Iowa.

THOMAS ANTONY: 

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Executed on this \_\_\_\_\_th/st day of \_\_\_\_\_ 2018,

at \_\_\_\_\_, Iowa.