

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JASON THOMAS KRAFT | 03/02/2020 |
| RECEIVING PARTY DATA | |
| Name: | THE TORO COMPANY |
| Street Address: | 8111 LYNDALE AVENUE SOUTH |
| City: | BLOOMINGTON |
| State/Country: | MINNESOTA |
| Postal Code: | 55420-1196 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16422153 |
| CORRESPONDENCE DATA | |
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| <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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| ATTORNEY DOCKET NUMBER: | 0206.000197US01 |
| NAME OF SUBMITTER: | ANGELA J. HOERNEMANN |
| SIGNATURE: | /Angela J. Hoernemann/ |
| DATE SIGNED: | 04/14/2020 |
| Total Attachments: 2 | |
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| source=Kraft-Assignment-Signed 03-02-2020#page2.tif | |

ASSIGNMENT

Whereas I, **Jason T. Kraft**, with residence and citizenship as indicated below, have made an invention in

**AUTONOMOUS GROUNDS MAINTENANCE MACHINES WITH PATH PLANNING
FOR TRAP AND OBSTACLE AVOIDANCE**

Filed: May 24, 2019

U.S. Application No.: 16/422,153

and executed an application for Letters Patent of the United States of America based thereon, said application claiming priority to and/or the benefit of the following United States Provisional Patent Applications:

**AUTONOMOUS GROUNDS MAINTENANCE MACHINES WITH PATH PLANNING
FOR TRAP AND OBSTACLE AVOIDANCE**

Filed: May 25, 2018

U.S. Application Serial No.: 62/676,379

Filed: February 5, 2019

U.S. Application Serial No.: 62/801,267

Now, therefore, for good and valuable consideration, receipt and sufficiency of which are hereby acknowledged, I have individually agreed to assign and transfer and do hereby assign and transfer unto **THE TORO COMPANY** ("Assignee"), a corporation of **Delaware**, having its principal office at **8111 Lyndale Avenue South, Bloomington, Minnesota, 55420-1196, United States of America**, its successors and assigns, my entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment by the Assignee), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by the Assignee, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

