

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5747596

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JUSTIN FORBES THODE | 08/19/2019 |
| GRACE DA-IN LEE | 08/21/2019 |
| RECEIVING PARTY DATA | |
| Name: | CROWN EQUIPMENT LIMITED |
| Street Address: | 18 ANDROMEDA CRESCENT |
| Internal Address: | EAST TAMAKI |
| City: | AUCKLAND |
| State/Country: | NEW ZEALAND |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16513876 |
| CORRESPONDENCE DATA | |
| Fax Number: | (513)977-8141 |
| <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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| Email: | gina.smith@dinsmore.com |
| Correspondent Name: | DINSMORE & SHOHL LLP |
| Address Line 1: | 255 EAST FIFTH STREET |
| Address Line 2: | SUITE 1900 |
| Address Line 4: | CINCINNATI, OHIO 45202 |
| ATTORNEY DOCKET NUMBER: | 40165-1546 |
| NAME OF SUBMITTER: | RITU SINGH |
| SIGNATURE: | /Ritu Singh/ |
| DATE SIGNED: | 10/01/2019 |
| Total Attachments: 4 | |
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| source=Inventors_to_CrownLtd#page2.tif | |
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| source=Inventors_to_CrownLtd#page4.tif | |

ASSIGNMENT

WHEREAS, we, **Justin Forbes Thode**, of Auckland, NZ, and **Grace Da-In Lee** of Auckland, NZ (hereinafter "ASSIGNORS") have invented a new and original **Systems and Methods For Vehicle Position Calibration Using Rack Leg Identification** (hereinafter "INVENTION") as set forth in:

Patent Application Serial Nos. 16/513,876; filed on July 17, 2019
PCT/US2019/042127

Named Inventors: Justin Forbes Thode, Grace Da-In Lee

Title: Systems and Methods For Vehicle Position Calibration Using Rack Leg Identification

Attorney Docket Nos. CRNZ 1803 PA / 40165-1546; CRNZ 1803 WO / 40165-1547

and pursuant to which have produced various works relating thereto including but not limited to Intellectual Property as set forth in the employment agreement (hereafter "AGREEMENT") and/or the Deed of Assignment of Intellectual Property (herein collectively referred to as "WORKS");

WHEREAS, the ASSIGNORS hereby authorize and request the attorney(s) and/or agent(s) recording the present assignment, to insert above the Application Serial No. and filing date of said application, when known;

AND WHEREAS, **Crown Equipment Limited** having a place of business at 18 Andromeda Crescent, East Tamaki, Auckland, New Zealand (hereinafter "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to said *INVENTION* and said *WORKS*, and in and to any and all Letters Patent utility models of the United States and foreign countries which may be obtained therefor;

AND WHEREAS when creating the *INVENTION*, and the *WORKS*, the *ASSIGNORS* was at all times an employee of the *ASSIGNEE*, in a technical position in which such *INVENTION*, designs, and *WORKS* are expected to arise; and by virtue of the *AGREEMENT* between the *ASSIGNORS* and the *ASSIGNEE*, all intellectual property rights relating to and deriving from the *INVENTION*, and the *WORKS* are deemed to belong to the *ASSIGNEE*;

NOW, THEREFORE, for good and valuable consideration of NZ\$1.00 (the receipt and sufficiency of which is hereby acknowledged) and the terms of my employment with the *ASSIGNEE*, including those set out in the *AGREEMENT*, I do hereby sell, assign, transfer and set over unto said *ASSIGNEE*, its legal representatives, successors, and assigns, free from all encumbrances, any remaining right, title and interest, including the right to sue for past infringement, if any, and the (future) right to claim priority, in and to the *INVENTION*, and the *WORKS* as set forth above, the *INVENTION* and the *WORKS* therein disclosed, and any improvements thereon, and in and to any and all Letters Patent, extensions, renewals, reissues and reexamination certificates which may be granted therefor in the United States and its territorial possession, in any and all foreign countries, including without limit all PCT Contracting States, and in and to any and all divisional, continuation, international, substitute and reissue applications and any other applications claiming priority thereto, and in and to any and all intellectual property rights, including patents, utility models, designs, and intellectual property in the United States and foreign countries which may be

issued for the *INVENTION*, and the *WORKS*, including the right to claim priority from any such intellectual property rights, to the extent that any such right, title and interest was not automatically conveyed to the *ASSIGNEE* under New Zealand law and/or pursuant to the *AGREEMENT* with the *ASSIGNEE*;

UPON SAID CONSIDERATIONS, I hereby agree that I will not execute any writing or do any act whatsoever conflicting with this ASSIGNMENT, and that I will, at any time upon request, without further or additional consideration but at the expense of said *ASSIGNEE*, execute such additional assignments and other writings and do such additional acts as said *ASSIGNEE* may deem necessary or desirable to perfect said *ASSIGNEE*'s enjoyment of this grant, and render all necessary assistance in making any further applications for and obtaining all such intellectual property rights relating to the *INVENTION*, and the *WORKS* (including original, divisional, continuation, reexamined, reissued, or extended Letters Patent of the United States or any and all foreign countries based on the Designs, the *INVENTION*, and the *WORKS*, and in enforcing any intellectual property rights or choses in action accruing as a result of such intellectual property rights, by giving testimony in any proceedings or transactions involving such intellectual property rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of said *ASSIGNORS* and said *ASSIGNEE*;


AND I request all Intellectual Property Offices to issue any such Intellectual Property rights which may be issued for, relating to or derived from the *INVENTION*, and the *WORKS* to said *ASSIGNEE*, its legal representatives, successors or assigns, as a joint owner of the entire right, title and interest in and to the intellectual property rights covered thereby.

[Remainder left intentionally blank]

IN WITNESS WHEREOF, the *ASSIGNOR*, **Justin Forbes Thode**, has hereunto set his hand and seal as of the 19 day of August, 2019.

Signature: 
Justin Forbes Thode

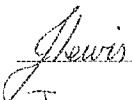
Signed in the presence of:

Signature: 
Name: JACQUELINE LEWIS
Date: 19/8/2019

IN WITNESS WHEREOF, the *ASSIGNOR*, **Grace Da-In Lee**, has hereunto set her hand and seal as of the 21 day of AUGUST, 2019.

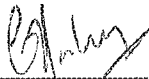
Signature: 
Grace Da-In Lee

Signed in the presence of:

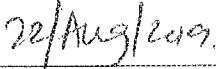
Signature: 
Name: JACQUELINE LEWIS
Date: 21/8/2019

ASSIGNEE hereby accepts and receives this **ASSIGNMENT**.

Signed on behalf of the *ASSIGNEE*:

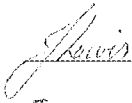


Kashya Chandrasekar
Manager Automation Technology Development for
Crown Equipment Limited



Date

Signed in the presence of:

Signature: 

Name: JACQUELINE LEWIS
Date: 22 AUG 2019

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