

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5806241

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SEAN O'SULLIVAN	02/22/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CARMA TECHNOLOGY LTD.
<b>Street Address:</b>	REPUBLIC OF WORK
<b>Internal Address:</b>	12 SOUTH MALL
<b>City:</b>	CORK CITY
<b>State/Country:</b>	IRELAND
<b>Postal Code:</b>	T12 RD43
<b>PROPERTY NUMBERS Total: 4</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16670015
Application Number:	16670082
Application Number:	16670151
Application Number:	16670220
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)450-5538
<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>Address Line 4:</b>	WASHINGTON, D.C. 20006
<b>NAME OF SUBMITTER:</b>	SANGWOO AHN
<b>SIGNATURE:</b>	/SANGWOO AHN/
<b>DATE SIGNED:</b>	11/06/2019
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

WHEREAS Sean O'Sullivan (hereinafter "Assignor") has made an invention entitled:

**CONTINUOUS COORDINATED PROXIMITY MONITORING IN A SHARED TRANSPORT NETWORK**

the invention being disclosed in an application for United States Letters Patent filed in the U.S. Patent and Trademark Office (USPTO) and identified by U.S. Application No. 12/924,487 filed on September 28, 2010, a divisional of U.S. Application No. 12/069,656 filed on February 12, 2008, issued as U.S. Patent No. 7,840,427, which claims priority of U.S. Provisional Application No. 60/900,808 filed on February 12, 2007;

WHEREAS, Assignor has licensed certain rights in the invention to **CARMA TECHNOLOGY Ltd**, a company of Ireland whose post office address is Republic of Work, 12 South Mall, Cork City, T12 RD43, IRELAND (hereinafter "Assignee") via an Intellectual Property License Agreement dated February 28, 2007, as amended in an Addendum dated November 28, 2012 ("Agreement") between Assignor and Assignee's predecessors-in-interest Irish Regional Information Systems Limited ("IRISL"), IRISL having been renamed Mapflow Limited on March 19, 2008, Mapflow Limited having assigned its rights to Avego Limited in an Intellectual Property Assignment Agreement dated March 27, 2009, and Avego Limited being renamed Carma Technology Limited as of September 4, 2014; and

WHEREAS, subject to certain Reversion Rights (defined below), Assignee is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, including the entire right, title, and interest in and to the above-referenced U.S. applications and patent, and any United States Letters Patent(s) to be issued upon the above-referenced applications or any application claiming priority to the above-referenced applications;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, subject to those certain Reversion Rights, Assignor has sold, assigned, transferred, and set over, and does hereby sell, assign, transfer, and set over unto Assignee, its lawful successors and assigns, Assignor's entire right, title, and interest in and to this invention, the above-referenced U.S. applications and patent, and all non-provisional applications, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above-referenced U.S. applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country, and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and Assignor hereby authorizes and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment, any and all rights to enforce the Patent and any and all rights to past damages for infringement of the Patent prior to execution of this Assignment, and all rights and benefits under any applicable treaty or convention;

AND, Assignor hereby covenants that Assignor has the full right to convey the interest assigned by this Assignment, and Assignor has not executed and will not execute any agreement in conflict with this Assignment;

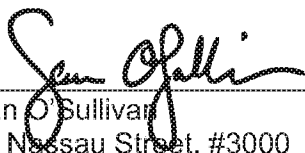
AND, Assignor hereby further covenants and agrees that Assignor will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to him respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all non-provisional, divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, Assignee hereby covenants and agrees that Assignor will be entitled to Reversion Rights in the event that any "Triggering Event" occurs (as defined below), in which case Assignee will take all such actions as reasonably necessary or appropriate to re-convey and assign to Assignor the entire right, title, and interest in and to this invention in all countries throughout the world, including the entire right, title, and interest in and to the above-referenced U.S. applications and patent, and any United States Letters Patent(s) to be issued upon the above-referenced applications or any application claiming priority to the above-referenced applications.

"Triggering Event" means the occurrence of any of the following: Assignee (i) applies for or consents to the appointment of a receiver, trustee, liquidator or custodian of itself or of all of its property, (ii) admits in writing its inability to pay any of its debts generally as they mature, (iii) makes a general assignment of itself or all of its property for the benefit of its or any of its creditors, (iv) is dissolved or liquidated, or (v) commences a voluntary case or other proceeding seeking liquidation or reorganization with respect to itself or all of its debts, in each case (i)-(v), under any bankruptcy or insolvency law now or hereafter in effect or consent to any such relief or to the appointment of or taking possession of all of its property by any official in an involuntary case or other proceeding commenced against it.

The signatures below serve as written consent by Assignor and Assignee under Clause 14 of the Agreement.

Assignor:



Sean O. Sullivan  
174 Nassau Street, #3000  
Princeton, NJ 08542

Date: 22 February 2019

Witness signature \_\_\_\_\_

Name (print): \_\_\_\_\_

Address: \_\_\_\_\_

Date: \_\_\_\_\_

Assignee:  
Carma Technology Ltd



Name: Lawrence Mulligan

Title: Chief Executive Officer

Date: 22 February 2019



Witness signature

Name (print): Sean O'Sullivan

Address: 159 Library Place  
Princeton, NJ 08540 USA

Date: 22 February 2019