

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM675743

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
International Road Dynamics Inc.		09/01/2021	Corporation: CANADA

RECEIVING PARTY DATA

Name:	HSBC Bank of Canada
Street Address:	70 York Street
City:	Toronto, Ontario
State/Country:	CANADA
Postal Code:	M5J 1S9
Entity Type:	Chartered Bank: CANADA

PROPERTY NUMBERS Total: 20

Property Type	Number	Word Mark
Serial Number:	88053712	IPACS
Registration Number:	5472475	IBRDG
Registration Number:	4693162	DYNAX
Registration Number:	5472391	VI2M
Registration Number:	5469973	VI2M
Registration Number:	5348400	VECTORSENSE
Registration Number:	3902399	CUSTOMER DRIVEN
Registration Number:	4426945	INTERNATIONAL ROAD DYNAMICS
Registration Number:	4314949	ROAD REPORTER
Registration Number:	4299615	SSWIM
Registration Number:	4270168	GATEWEIGH
Registration Number:	4247733	SLC
Registration Number:	4246155	NCPASS
Registration Number:	4186939	WIM@TOLL
Registration Number:	4194819	ITOLL
Registration Number:	4166088	WE MAKE HIGHWAYS TALK
Registration Number:	4148137	ISINC
Registration Number:	4130084	IRD PAT TRAFFIC
Registration Number:	1784757	BENDING PLATE

TRADEMARK

Property Type	Number	Word Mark
Registration Number:	1679195	IRD

CORRESPONDENCE DATA

Fax Number: 6137839690

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.

Phone: 6137839644

Email: anna.clark@dentons.com

Correspondent Name: Anna Clark

Address Line 1: 99 Bank Street

Address Line 2: Suite 1420

Address Line 4: Ottawa, ONTARIO K1P 1H4

NAME OF SUBMITTER:	Anna Clark
SIGNATURE:	/Anna Clark/
DATE SIGNED:	09/21/2021

Total Attachments: 9

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CONFIRMATION OF SECURITY INTEREST IN
TRADE MARKS AND RELATED INTELLECTUAL PROPERTY

THIS AGREEMENT executed as of the 1st day of September, 2021

RECITALS:

- (a) The credit agreement dated on the date hereof (the "Credit Agreement") among Quarterhill ITS Inc., as borrower, the Lenders (as such term is defined in the Credit Agreement) and HSBC Bank Canada, in its capacity as administrative agent for and on behalf of the Lenders (in such capacity, the "Agent");
- (b) The Agent and the Lenders are collectively referred to herein as the "Secured Parties";
- (c) International Road Dynamics Inc., a corporation duly incorporated pursuant to the federal laws of Canada, is the owner of the trademarks and other intellectual property set forth in Exhibit "A", the registrations and applications for such trademarks and intellectual property identified therein and the underlying goodwill associated with such trademarks and intellectual property (collectively, the "Intellectual Property"); and
- (d) The Agent, a Canadian chartered bank with offices at 70 York Street, Toronto, Ontario, M5J 1S9, has entered into an agreement with the Debtor, as reflected by a separate document entitled "General Security and Pledge Agreement" dated on or about the date hereof (as the same may be amended, modified, supplemented, extended, renewed, restated or replaced from time to time, the "Security Agreement"), by which the Debtor granted to the Agent, for the benefit of the Secured Parties a security interest in certain property, including the Intellectual Property, in consideration of the provision of certain credit facilities to the Debtor.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are acknowledged, and in accordance with the terms and obligations set forth in the Security Agreement, the Debtor hereby confirms the grant to the Agent, for the benefit of the Secured Parties, of a security interest in and to the Intellectual Property.

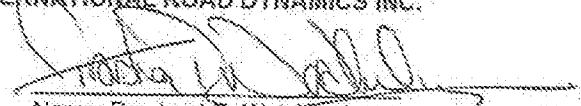
The Debtor waives the right to receive a copy of the verification statement registered under the *Personal Property Security Act* (Ontario) (the "PPSA"), in accordance with Section 46(6.1) of the PPSA.

[Signature Page Follows]

DATED as of the date and year first written above.

INTERNATIONAL ROAD DYNAMICS INC.

By:



Name: Prashant B. Watchmaker
Title: Authorized Signatory

Confirmation of Security re IP

TRADEMARK
REEL: 007427 FRAME: 0295

EXHIBIT "A"

INTELLECTUAL PROPERTY


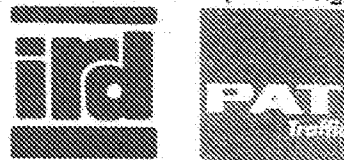


Identification of Intellectual Property	Description of Intellectual Property
US Patent 10,006,799	Measuring Moving Vehicle Information Using Electrical Time Domain Reflectometry
US Patent 10,876,884	Measuring Moving Vehicle Information Using Electrical Time Domain Reflectometry
Canada Patent 2903310	System and Method for Measuring Moving Vehicle Information using Electrical Time Domain Reflectometry
US Patent 5,617,086	Traffic Monitoring System
Canadian Patent 2134717	Time Monitoring System with Safe Speed Computations
Canadian Patent 2163045	Capacitance Transducer
Australian Patent 1996075584	Capacitive Transducer
US Patent 6,006,386	Capacitive Transducer
Canadian Patent 2310149	In Road Vehicle Axle Sensor
Canadian Patent 2655457	Mid-Block Traffic Detection and Signal Control
US Patent 8,502,697	Mid-Block Traffic Detection and Signal Control
Canadian Patent 2903374 (also Europe, UAE,)	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
US Patent 10,859,430	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
US Patent 9,880,045	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
UK Patent 2965300	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Ukraine Patent 121455	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Thailand Patent Application 1501005125	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Switzerland Patent 2965300	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
South Africa Patent 2015/06205	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Saudi Arabia Patent Application 515360982	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
South Korea Patent 10-1819600	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Qatar Patent Application 201509/00359	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Philippines Patent 1-2015-501947	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to

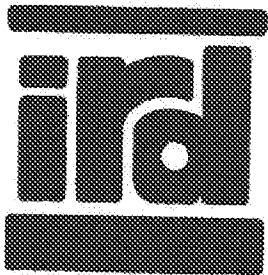


	Vehicular Load
Peru Patent 10374	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Oman Patent 254	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
New Zealand Patent 726586	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Netherlands Patent 2965300	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Mexico Patent 352534	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Malaysia Patent 17-2651-A	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Japan Patent 6381846	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Israel Patent 240959	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
India Patent Application 2826/MUMNP/2015-1	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
German Patent 2965300	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
France Patent 2965300	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Eurasian Patent Organization 30190	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Czech Republic Patent 2985300	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
China Patent 105103207B	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Chile Patent Application 2460-2015	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Australian Patent 2014224245	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Belgian Patent 2965300	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Brazil Patent Application BR112015021430-4	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
Canadian Patent 3039833	Parametric Disturbance Sensor for a Vehicular


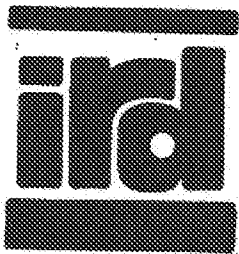
(also US)	Measurement System
European Patent Application 17860733.9	Parametric Disturbance Sensor for a Vehicular Measurement System
China Patent Application 2.0178E+11	Parametric Disturbance Sensor for a Vehicular Measurement System
US Patent Application 16/341,268	Parametric Disturbance Sensor for a Vehicular Measurement System
WIPO Patent Application PCTR/CA2017/051209	Parametric Disturbance Sensor for a Vehicular Measurement System
US Patent 5,477,217 (also Canada)	Bidirectional Road Traffic Sensor
US Patent 5,080,742	Measurement of Wheel and/or Axle Load of Road Vehicles
UK Patent 2189766	Measurement of Wheel and/or Axle Load of Road Vehicles
Canada Patent 2656132	Method for Detecting and Signalling Truck Presence
Canada Patent 2240916	Truck Traffic Monitoring and Warning Systems and Vehicle Ramp Advisory System
Canada Patent 2655995	Method for Providing Traffic Volume and Vehicle Characteristics
Canada Patent 2656134	Method for Detecting Moving Truck
Canada Patent 2656141	Method for Automatically Controlling Traffic Signalling Device
Canada Patent 2238127	Truck Traffic Monitoring and Warning Systems and Vehicle Ramp Advisory System
US Patent 6,204,778	Truck Traffic Monitoring and Warning Systems and Vehicle Ramp Advisory System
US Patent 10,859,430	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
US Patent 9,880,045	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
US Patent Application 20210025750	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
European Patent 2965300	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
US Patent Application 17/070,544	Sensor Including Electrical Transmission-Line Parameter that Changes Responsive to Vehicular Load
US Patent 4,383,584	Sealed Load Cell Construction
Canada Patent 1126767	Sealed Load Cell Construction
US Patent 4,360,071	Sealed Load Cell Construction
US Patent Application 6,469,266	Road Vehicle Axle Sensor
US Patent 5,719,356	Stable Torque Arm Mounting for Weigh Scale
Canada Patent 2161853	Stable Torque Arm Mounting for Weigh Scale
US Patent 6,825,778	Variable Speed Limit System
Canada Patent 2444144	Variable Speed Limit System
US Patent 5,747,746	Restraint System for Weight Scales
Canada Patent 2160418	Restraint System for Weight Scales
Canada Patent 2644875 (also Europe)	Measurement of Wheel and/or Axle Load of Road Vehicles
China Patent 101738244	Measurement of Wheel and/or Axle Load of

NATDOCS\67527956\V-3

	Road Vehicles
Australian Patent 2014224302	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
US Patent 9,429,463 (also, Canada, UAE)	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
US Patent Application 17/103,364	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
US Patent 10,876,884	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Ukraine Patent 119439	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Thailand Patent Application 1501005126	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
South Africa Patent 2015/06204	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Saudi Arabia Patent 6036	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
South Korea Patent 10-212132	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Qatar Patent Application 201509/00360	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Philippines Patent 1/2015/501946	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Peru Patent 10139	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Oman Patent 117	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
New Zealand Patent 712424	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Mexico Patent 349660	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Malaysia Patent 179993-A	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Japan Patent 5989926	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Israel Patent 240961	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Indian Patent Application 2771/MUMNP/2015	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
European Patent Application 14759601.9	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Eurasian Patent Organization 31250	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
African Regional Intellectual Property Organization 5552	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
China Patent Application 2.0148E+11	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Chile Patent 55.279	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
US Patent Application 20210080316	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Brazil Patent Application 112015021311-1	Measuring Moving Vehicle Information Using Electrical Time Domain Relectometry
Canada Patent 2343435	Dynamic Work Zone Safety System
US Patent 5,090,493	Load Cells and Scales Therefrom

US Patent 8,825,586	Vehicle Type Recognition at a Checkpoint Using PCA and BIC
Canada Patent 2694451	Cluster and Discriminant Analysis for Vehicles Detection
US Patent 5,621,195	Sensor Array System for Determining Axle Spacing
Canada Patent 2122684	Sensor Array System for Determining Axle Spacing
Canada Patent 2358728	Wildlife Warning System
US Patent Application 20030071735	Wildlife Warning System
US Patent 6,559,774	Dynamic Work Zone Safety System and Method
France Patent 2189766	Mesure d'une charge de roue et / ou de véhicules routiers
German Patent 6.00201E+12	Messung der Rad- und/oder Achslast eines Strassenfahrzeugs
Canada Trademark 986971	VI ² M 
Canada Trademark 986977	VI2M
Canada Trademark 974514	IBRDG
Canada Trademark 973202	VECTORSENSE
Canada Trademark 797733	IRD PAT TRAFFIC (and design) 
Canada Trademark 602833	SPEED RANGER
Canada Trademark 585538	GATE WEIGH
Canada Trademark 574989	PHOTO WIM
Canada Trademark 569505	CUSTOMER DRIVEN (and design) 
Canada Trademark 725132	IANALYZE
Canada Trademark 662570	HAZTRACK MOBILE
Canada Trademark 386052	IRD INTERNATIONAL ROAD DYNAMICS (and design) 
Canada Trademark 488727	DYNAX
Canada Trademark 425482	BENDING PLATE SYSTEM
Canada Trademark 384888	IRD (and design)

	
Canada Trademark Application 1879809	IPAC
Canada Trademark 837110	ITOLL
Canada Trademark 813770	BENDING PLATE
Canada Trademark 785956	INDUSTRY
Canada Trademark 785957	WIM@TOLL
Canada Trademark 837112	INTERNATIONAL ROAD DYNAMICS
Canada Trademark 830491	INTERNATIONAL ROAD DYNAMICS
Canada Trademark 810994	SSWIM
Canada Trademark 810992	SLC
Canada Trademark 810991	ROAD REPORTER
Canada Trademark 797404	WE MAKE HIGHWAYS TALK
Canada Trademark 784779	ISINC
US Trademark Application 88053712	IPACS
US Trademark 5472475	IBRDG
US Trademark 4693162	DYNAX
US Trademark 5472391	VI2M
US Trademark 5469973	VI2M (and design) 
US Trademark 5348400	VECTORSENSE
US Trademark 3902399	CUSTOMER DRIVEN (and design) 
US Trademark 4426945	INTERNATIONAL ROAD DYNAMICS
US Trademark 4314949	ROAD REPORTER
US Trademark 4299615	SSWIM
US Trademark 4270168	GATEWEIGH
US Trademark 4247733	SLC
US Trademark 4246155	NCPASS
US Trademark 4186939	WIM@TOLL
US Trademark 4194819	ITOLL
US Trademark 4166088	WE MAKE HIGHWAYS TALK
US Trademark 4148137	ISINC
US Trademark 4130084	IRD PAT TRAFFIC (and design)

	
US Trademark 1679295 1679195	IRD (and design) 
US Trademark 1784757	BENDING PLATE
EU Trademark 7454986	BENDING PLATE SYSTEM
China Trademark 7750220	DYNAX
EU Trademark 007457328	DYNAX
Brazil Trademark 830450637	INTERNATIONAL ROAD DYNAMICS
China Trademark 8226893	INTERNATIONAL ROAD DYNAMICS
EU Trademark 009066523	INTERNATIONAL ROAD DYNAMICS
India Trademark [Application] 1993428	INTERNATIONAL ROAD DYNAMICS
China Trademark 8226892	INTERNATIONAL ROAD DYNAMICS
Brazil Trademark 830450670	IRD (and design)
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UK Trademark 00002134093	IRD (and design)
Brazil Trademark 830450658	IRD (and design)
China Trademark 9114029	IRD (and design)
China Trademark 11148941	IRD (and design)
Chile Trademark 1141280	IRD PAT TRAFFIC (and design)
China Trademark 9206312	IRD PAT TRAFFIC (and design)
EU Trademark 007458425	IRD PAT TRAFFIC (and design)
India Trademark 1035865	IRD PAT TRAFFIC (and design)
Chile Trademark 1143917	IRD PAT TRAFFIC (and design)
China Trademark 9114031	IRD PAT TRAFFIC (and design)
China Trademark 7750219	IRD PAT TRAFFIC (and design)
EU Trademark 009288441	ISINC
India Trademark 1154955	ISINC
India Trademark [Application] 1808292	ITOLL
Canada Trademark 593426	LANE MERGER
Canada Trademark 589827	TRAVEL MESSENGER
EU Trademark 008170672	WIM@TOLL
India Trademark [Application] 10808293	WIM@TOLL

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