504906248 05/09/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4952992

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MAHENDRA FULESHWAR PRASAD	04/09/2018
SCOTT LEONARD DILL	04/12/2018
MARK EDWARD REAUME	05/04/2018
JASON WAYNE JANTZI	03/27/2018
YU GAO	03/27/2018
ALEXANDER KARL LEVATO	03/21/2018

RECEIVING PARTY DATA

Name:	BLACKBERRY LIMITED
Street Address:	2200 UNIVERSITY AVENUE EAST
City:	WATERLOO, ONTARIO
State/Country:	CANADA
Postal Code:	N2K 0A7

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15904484

CORRESPONDENCE DATA

Fax Number: (713)468-8883

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: 713-468-8880 chayes@tphm.com

Correspondent Name: TROP PRUNER & HU, P.C. **Address Line 1:** 1616 SOUTH VOSS ROAD

Address Line 2: SUITE 750

Address Line 4: HOUSTON, TEXAS 77057-2631

ATTORNEY DOCKET NUMBER:	50355 RIM0213US
NAME OF SUBMITTER:	DAN C. HU
SIGNATURE:	/Dan C. Hu, Reg. No. 40,025/
DATE SIGNED:	05/09/2018

PATENT 504906248 REEL: 046110 FRAME: 0163

Total Attachments: 40 source=50355 2018-04-09 ASN Prasad-#page1.tif source=50355 2018-04-09 ASN Prasad-#page2.tif source=50355 2018-04-09 ASN Prasad-#page3.tif source=50355 2018-04-09 ASN Prasad-#page4.tif source=50355 2018-04-09 ASN Prasad-#page5.tif source=50355 2018-04-09 ASN Prasad-#page6.tif source=50355 2018-04-09 ASN Prasad-#page7.tif source=50355_2018-04-09_ASN_Prasad-#page8.tif source=50355 2018-04-12 ASN Dill-#page1.tif source=50355 2018-04-12 ASN Dill-#page2.tif source=50355_2018-04-12_ASN_Dill-#page3.tif source=50355 2018-04-12 ASN Dill-#page4.tif source=50355 2018-04-12 ASN Dill-#page5.tif source=50355 2018-04-12 ASN_Dill-#page6.tif source=50355_2018-04-12_ASN_Dill-#page7.tif source=50355 2018-04-12 ASN Dill-#page8.tif source=50355 2018-05-04 ASN Reaume-#page1.tif source=50355 2018-05-04 ASN Reaume-#page2.tif source=50355 2018-05-04 ASN Reaume-#page3.tif source=50355 2018-05-04 ASN Reaume-#page4.tif source=50355 2018-05-04 ASN Reaume-#page5.tif source=50355 2018-05-04 ASN Reaume-#page6.tif source=50355 2018-05-04 ASN Reaume-#page7.tif source=50355 2018-05-04 ASN Reaume-#page8.tif source=50355_2018-03-27_ASN_Jantzi Gao-#page1.tif source=50355 2018-03-27 ASN Jantzi Gao-#page2.tif source=50355 2018-03-27 ASN Jantzi Gao-#page3.tif source=50355 2018-03-27 ASN Jantzi Gao-#page4.tif source=50355_2018-03-27_ASN_Jantzi Gao-#page5.tif source=50355 2018-03-27 ASN Jantzi Gao-#page6.tif source=50355 2018-03-27 ASN Jantzi Gao-#page7.tif source=50355_2018-03-27_ASN_Jantzi Gao-#page8.tif source=50355_2018-03-21_ASN_Levato-#page1.tif source=50355 2018-03-21 ASN Levato-#page2.tif source=50355 2018-03-21 ASN Levato-#page3.tif source=50355_2018-03-21_ASN_Levato-#page4.tif source=50355_2018-03-21_ASN_Levato-#page5.tif source=50355 2018-03-21 ASN Levato-#page6.tif source=50355 2018-03-21 ASN Levato-#page7.tif source=50355_2018-03-21_ASN_Levato-#page8.tif

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)"):

Mahendra FULESHWAR PRASAD, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada

Scott Leonard DILL, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada Mark Edward REAUME, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada

Jason Wayne JANTZI, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada Yu GAO, 2200 University Ave. East, Waterloo, Ontario, N2K 0A7, Canada Alexander Karl LEVATO, 4701 Tahoe Boulevard, Tahoe A, Mississauga, Ontario, L4W 0B5, Canada

am an/are inventor(s) of an invention entitled **CONTROLLING DETECTION OF CARGO TRANSPORTATION UNIT CONDITIONS** ("Invention") for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries ("Applications"), as further described below:

US, APPLICATION # 15/904484, FILED February 26, 2018 PCT, APPLICATION # PCT/US2018/019620, FILED February 26, 2018

AND WHEREAS, **BLACKBERRY LIMITED**, (hereinafter referred to as the "ASSIGNEE"), a company organized under the laws of the Province of Ontario, Canada, having a place of business at 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada, is desirous of acquiring the full and exclusive right, title and interest in and to said Invention, said Applications inclusive of all ancillary rights relating thereto, any and all priority rights derived from said Applications, and all patents, design registrations, utility model registrations and other forms of protection, rights and titles relating to said Invention, in any country or countries and in respect of the whole or any part or parts of or improvements to the Invention;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S) does/do hereby confirm that ASSIGNOR(S) has/have transferred, conveyed and assigned, and by way of further assurance does/do hereby transfer, convey and assign, any and all of ASSIGNOR(S)'s respective rights, title and interest in and to: the Invention; the Applications; inclusive of any and all priority rights, including the right to claim priority, derived from the Applications; any further applications for patent, design registration, utility model registration or other forms of protection, rights or titles for the whole

Page 1 of 8 V7.3

or any part or parts of or improvements to the Invention in any country or countries ("Further Applications") together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications ("Divisionals"); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals ("Grants"); and the right to obtain any extensions / supplementary protection certificates ("Extensions"); together with the right to bring proceedings to recover damages and/or to obtain other remedies for acts committed in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

ASSIGNOR(S) does/do hereby agree, upon request, to provide assistance and to execute any and all further documents, at the expense of ASSIGNEE and/or its successors and assigns (as applicable), which may be necessary or desirable to enable ASSIGNEE, and/or its successors and assigns (as applicable), to file, prosecute, bring proceedings and take other actions with respect to any and all of the Invention, Applications, Further Applications, Divisionals, Grants and Extensions, and any and all patents and registrations granted thereon and other forms of protection, rights and titles relating thereto, and ASSIGNOR(S) further agrees/agree to execute, upon request and at the expense of ASSIGNEE and/or its successors and assigns (as applicable), any and all further documents which may be necessary or desirable to vest or perfect the title of ASSIGNEE therein.

ASSIGNOR(S) does/do hereby authorize ASSIGNEE or its patent agents or attorneys to insert, above, the jurisdictions, application numbers, filing dates and any other indicia identifying the Applications when such information is available for the purpose of recording this assignment.

ASSIGNOR(S) does/do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS WORLDWIDE ASSIGNMENT shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon ASSIGNOR(S) and their successors and permitted assigns.

DELIVERY of this Worldwide Assignment by copy, however transmitted, constitutes valid and effective delivery. This Worldwide Assignment may be executed in one or more counterparts, each of which when so executed and delivered shall be an original, and such counterparts shall together constitute one and the same instrument.

Page 2 of 8 V7.3

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:

Mahendra EULESHWAR PRASAD 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada

Date: <u>April 9 , 2018</u>

STATEMENT BY WITNESS

I, Jenn Fer Baumann, whose full Post Office address is

2200 University Ave East, Wakeloo, ON
(Address of Witness)

NAKCAZ

hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.

(Signature of Witness)

Page 3 of 8

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:
Scott Leonard DILL 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada
STATEMENT BY WITNESS
I,, whose full Post Office address is
(Address of Witness)
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute sam
Date:

Page 4 of 8 V7.3

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:
Date: Mark Edward REAUME 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada
STATEMENT BY WITNESS
I,, whose full Post Office address is
(Address of Witness)
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute sam
Date:

Page 5 of 8 V7.3

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by th undersigned:	e
Jason Wayne JANTZI 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada	
STATEMENT BY WITNESS	
I,, whose full Post Office address is	
(Address of Witness)	
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.	
Date:	

Page 6 of 8 V7.3

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by th undersigned:
Yu GAO 2200 University Ave. East, Waterloo, Ontario, N2K 0A7, Canada
STATEMENT BY WITNESS
I,, whose full Post Office address is
(Address of Witness)
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same
Date: (Signature of Witness)

Page 7 of 8 V7.3

(Signature of Witness)

Page 8 of 8 V7.3

Date: _____

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)"):

Mahendra FULESHWAR PRASAD, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada

Scott Leonard DILL, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada Mark Edward REAUME, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada

Jason Wayne JANTZI, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada Yu GAO, 2200 University Ave. East, Waterloo, Ontario, N2K 0A7, Canada Alexander Karl LEVATO, 4701 Tahoe Boulevard, Tahoe A, Mississauga, Ontario, L4W 0B5, Canada

am an/are inventor(s) of an invention entitled CONTROLLING DETECTION OF CARGO TRANSPORTATION UNIT CONDITIONS ("Invention") for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries ("Applications"), as further described below:

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NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S) does/do hereby confirm that ASSIGNOR(S) has/have transferred, conveyed and assigned, and by way of further assurance does/do hereby transfer, convey and assign, any and all of ASSIGNOR(S)'s respective rights, title and interest in and to: the Invention; the Applications; inclusive of any and all priority rights, including the right to claim priority, derived from the Applications; any further applications for patent, design registration, utility model registration or other forms of protection, rights or titles for the whole

or any part or parts of or improvements to the Invention in any country or countries ("Further Applications") together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications ("Divisionals"); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals ("Grants"); and the right to obtain any extensions / supplementary protection certificates ("Extensions"); together with the right to bring proceedings to recover damages and/or to obtain other remedies for acts committed in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

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Page 2 of 8 Y7.3

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:
Mahendra FULESHWAR PRASAD 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada
STATEMENT BY WITNESS
I,, whose full Post Office address is
(Address of Witness)
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.
Date: (Signature of Witness)

undersigned:
Scott Leonard DILL 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada
STATEMENT BY WITNESS
I, <u>ALEXANDER JOHN のもに</u> , whose full Post Office address is
35 ALGANDRA RUE, APT 205 WATER LOO ON. NZ L 1L4
(Address of Witness)
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.
Date: APRIL 12, 2018 (Signature of Witness)

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:
Date: Mark Edward REAUME 2200 University Avenue East,
Waterloo, Ontario, N2K 0A7, Canada
STATEMENT BY WITNESS
I,, whose full Post Office address is
(Address of Witness)
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.
(Signature of Witness)

IN WITNESS WHEREOF, thi undersigned:	is Worldwide Assignment has	been executed below by the
	Date:	
Jason Wayne JANTZI 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada	*	
STA	TEMENT BY WITNESS	
	*	
· I,	, whose	full Post Office address is
	e e e e e e e e e e e e e e e e e e e	
	(Address of Witness)	
hereby declare that I was personally particles known to me to be a person named in		
(Signature of Witness)	Date:	**

IN WITNESS WHEREOF, this Wornundersigned:	ldwide Assignment has been executed below by the
Yu GAO 2200 University Ave. East, Waterloo, Ontario, N2K 0A7, Canada	Date:
STATEME	ENT BY WITNESS
I,	, whose full Post Office address is
(Addre	ess of Witness)
	and did see the above named person, personally orldwide Assignment, duly sign and execute same.
(Signature of Witness)	Date:
	8

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:
Date;
Alexander Karl LEVATO 4701 Tahoe Boulevard, Tahoe A,
Mississauga, Ontario, L4W 0B5, Canada
STATEMENT BY WITNESS
I,, whose full Post Office address is
(Address of Witness)
hereby declare that I was personally present and did see the above named person, personally
known to me to be a person named in the Worldwide Assignment, duly sign and execute same.
Date:
(Signature of Witness)

V7.3

Page 8 of 8

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)"):

Mahendra FULESHWAR PRASAD, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada

Scott Leonard DILL, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada Mark Edward REAUME, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada

Jason Wayne JANTZI, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada Yu GAO, 2200 University Ave. East, Waterloo, Ontario, N2K 0A7, Canada Alexander Karl LEVATO, 4701 Tahoe Boulevard, Tahoe A, Mississauga, Ontario, L4W 0B5, Canada

am an/are inventor(s) of an invention entitled CONTROLLING DETECTION OF CARGO TRANSPORTATION UNIT CONDITIONS ("Invention") for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries ("Applications"), as further described below:

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or any part or parts of or improvements to the Invention in any country or countries ("Further Applications") together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications ("Divisionals"); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals ("Grants"); and the right to obtain any extensions / supplementary protection certificates ("Extensions"); together with the right to bring proceedings to recover damages and/or to obtain other remedies for acts committed in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

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Page 2 of 8

Black	Berry	Fan	ilv	Ref.	No :	50355

IN WITNESS WHEREOF, this Worldwide Assignment undersigned:	ent has been executed below by the
Date: Mahendra FULESHWAR PRASAD 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada	
STATEMENT BY WITNE	SS
I,	whose full Post Office address is
(Address of Witness)	
hereby declare that I was personally present and did see the a known to me to be a person named in the Worldwide Assigna	bove named person, personally ment, duly sign and execute same.
Date: (Signature of Witness)	

	BlackBerry	Famil	v Ref.	No.: :	50355
--	------------	-------	--------	--------	-------

IN WITNESS WHER undersigned:	EOF, this Worldw	vide Assignment l	has been executed bel	ow by the
	88	Date:		
Scott Leonard DILL		, ************************************		
2200 University Aven	ue East,			
Waterloo, Ontario, N2				
	35			
	STAT	EMENT BY WIT	TNESS	
			per oraș a a reco	aller on or
	***************************************		, whose full Post O	ffice address is
,-11	(Δ	Address of Witnes	67	
	(v)	radices of withes	(5)	
hereby declare that I w	as personally pres	sent and did see th	he ahove named nerso	n nerconally
known to me to be a po	erson named in the	e Worldwide Assi	ignment, duly sign an	d execute same
X ::::			mentality water to their wife	onvouce aune.
		Date:		
(Signature of Witness)				And the second s

Page 4 of 8

Date: May 4, 2018

IN	WITNESS	WHEREOF,	this Worldwide	Assignment has	been executed	below by	the
un	dersigned:						

Mark Edward REAUME 2200 University Avenue East,

Waterloo, Ontario, N2K 0A7, Canada

STATEMENT BY WITNESS

1, Stock Mac Danald, whose full Post Office address is

2300 University Are East

(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.

(Signature of Witness)

Date: 1/2/1/8

Page 5 of 8

IN WITNESS WHEREOF, this Worldw undersigned:	ide Assignment has been executed below by the
Da	te:
Jason Wayne JANTZI 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada	
STATEMENT	BY WITNESS
I,	, whose full Post Office address is
N	
(Address o	of Witness)
hereby declare that I was personally present and known to me to be a person named in the World	
31. W	
(Signature of Witness)	Date:

IN WITNESS WHEREOF, the undersigned:	is Worldwide Assignment has been executed below by the
	Date:
Yu GAO 2200 University Ave. East, Waterloo, Ontario, N2K 0A7, Canada	
STA	TEMENT BY WITNESS
ī,	whose full Post Office address is
**	(Address of Witness)
hereby declare that I was personally p	resent and did see the above named person, personally the Worldwide Assignment, duly sign and execute same.
(Signature of Witness)	Date:

Page 7 of 8

IN WITNESS WHEREOF, this Worldwid undersigned:	e Assignment has been executed below by the
Date Alexander Karl LEVATO 4701 Tahoe Boulevard, Tahoe A, Mississauga, Ontario, L4W 0B5, Canada	\$
STATEMENT E	BY WITNESS
I,	, whose full Post Office address is
(Address of	Witness)
hereby declare that I was personally present and d known to me to be a person named in the Worldw	id see the above named person, personally ide Assignment, duly sign and execute same.
(Signature of Witness)	Date:

Page 8 of 8

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)"):

Mahendra FULESHWAR PRASAD, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada

Scott Leonard DILL, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada Mark Edward REAUME, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada

Jason Wayne JANTZI, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada Yu GAO, 2200 University Ave. East, Waterloo, Ontario, N2K 0A7, Canada Alexander Karl LEVATO, 4701 Tahoe Boulevard, Tahoe A, Mississauga, Ontario, L4W 0B5, Canada

am an/are inventor(s) of an invention entitled CONTROLLING DETECTION OF CARGO TRANSPORTATION UNIT CONDITIONS ("Invention") for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries ("Applications"), as further described below:

US, APPLICATION # 15/904484, FILED February 26, 2018 PCT, APPLICATION # PCT/US2018/019620, FILED February 26, 2018

AND WHEREAS, BLACKBERRY LIMITED, (hereinafter referred to as the "ASSIGNEE"), a company organized under the laws of the Province of Ontario, Canada, having a place of business at 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada, is desirous of acquiring the full and exclusive right, title and interest in and to said Invention, said Applications inclusive of all ancillary rights relating thereto, any and all priority rights derived from said Applications, and all patents, design registrations, utility model registrations and other forms of protection, rights and titles relating to said Invention, in any country or countries and in respect of the whole or any part or parts of or improvements to the Invention;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S) does/do hereby confirm that ASSIGNOR(S) has/have transferred, conveyed and assigned, and by way of further assurance does/do hereby transfer, convey and assign, any and all of ASSIGNOR(S)'s respective rights, title and interest in and to: the Invention; the Applications; inclusive of any and all priority rights, including the right to claim priority, derived from the Applications; any further applications for patent, design registration, utility model registration or other forms of protection, rights or titles for the whole

or any part or parts of or improvements to the Invention in any country or countries ("Further Applications") together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications ("Divisionals"); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals ("Grants"); and the right to obtain any extensions / supplementary protection certificates ("Extensions"); together with the right to bring proceedings to recover damages and/or to obtain other remedies for acts committed in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

ASSIGNOR(S) does/do hereby agree, upon request, to provide assistance and to execute any and all further documents, at the expense of ASSIGNEE and/or its successors and assigns (as applicable), which may be necessary or desirable to enable ASSIGNEE, and/or its successors and assigns (as applicable), to file, prosecute, bring proceedings and take other actions with respect to any and all of the Invention, Applications, Further Applications, Divisionals, Grants and Extensions, and any and all patents and registrations granted thereon and other forms of protection, rights and titles relating thereto, and ASSIGNOR(S) further agrees/agree to execute, upon request and at the expense of ASSIGNEE and/or its successors and assigns (as applicable), any and all further documents which may be necessary or desirable to vest or perfect the title of ASSIGNEE therein.

ASSIGNOR(S) does/do hereby authorize ASSIGNEE or its patent agents or attorneys to insert, above, the jurisdictions, application numbers, filing dates and any other indicia identifying the Applications when such information is available for the purpose of recording this assignment.

ASSIGNOR(S) does/do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS WORLDWIDE ASSIGNMENT shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon ASSIGNOR(S) and their successors and permitted assigns.

DELIVERY of this Worldwide Assignment by copy, however transmitted, constitutes valid and effective delivery. This Worldwide Assignment may be executed in one or more counterparts, each of which when so executed and delivered shall be an original, and such counterparts shall together constitute one and the same instrument.

Page 2 of 8

IN WITNESS WHERE undersigned:	OF, this Worldwide Assignment has	been executed below by the
	Date:	
Mahendra FULESHWAR PRA	Date: SAD	
2200 University Avenue East,	*	
Waterloo, ON, N2K 0A7, Cana	da	£™k
	STATEMENT BY WITNESS	
*		A 94 144 . 104 144 144 144 144 144 144 144 144 144
I,	, whose	full Post Office address is
·	(Address of Witness)	
	Y ARM AND MA MARKET P	
hereby declare that I was person known to me to be a person nan	nally present and did see the above named in the Worldwide Assignment, d	amed person, personally uly sign and execute same.
	Date:	
(Signature of Witness)	we seed to the man	
		<u>\$</u>
		.38.

Page 3 of 8

V7.3

REEL: 046110 FRAME: 0191

IN WITT	NESS WHEREOF, this Worldwide Assignment has been executed below by the ned:
	Date:
2200 Un	onard DILL iversity Avenue East, o, Ontario, N2K 0A7, Canada
	STATEMENT BY WITNESS
	, whose full Post Office address is
نين	(Address of Witness)
	eclare that I was personally present and did see the above named person, personally me to be a person named in the Worldwide Assignment, duly sign and execute same.
(Signatur	Date:e of Witness)

IN WITNESS WHEREOF, this undersigned:	Worldwide Assignment l	nas been executed be	low by the
	?` •-4		
Mark Edward REAUME 2200 University Avenue East,			
Waterloo, Ontario, N2K 0A7, C	Janada		
	STATEMENT BY WIT	NESS	
			od.
Ι,		, whose full Post C	office address is
	(Address of Witnes		······································
	(13331300 01)(111100	,	
hereby declare that I was person known to me to be a person name	nally present and did see the ned in the Worldwide Ass	he above named perse ignment, duly sign ar	on, personally ad execute same.
	Date	· · · · · · · · · · · · · · · · · · ·	***************************************
(Signature of Witness)			
			#

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by th undersigned:
Date: Ma-4 27, 2018 Jason Wayne JANTZI 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada
STATEMENT BY WITNESS
I, bywa budda , whose full Post Office address is
3200 University Ave East Waterles ON (Address of Witness)
(Address of witness)
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.
Date: March 27, 2018 (Signature of Witness)

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned: Date: March 27, 2018 Yu GAO 2200 University Ave. East, Waterloo, Ontario, N2K 0A7, Canada STATEMENT BY WITNESS , whose full Post Office address is hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.

V7.3

Enature of Witness)

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:
Date: Alexander Karl LEVATO 4701 Tahoe Boulevard, Tahoe A, Mississauga, Ontario, L4W 0B5, Canada
STATEMENT BY WITNESS
I,, whose full Post Office address is
(Address of Witness)
hereby declare that I was personally present and did see the above named person, personally known to me to be a person named in the Worldwide Assignment, duly sign and execute same.
Date:

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)"):

Mahendra FULESHWAR PRASAD, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada

Scott Leonard DILL, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada Mark Edward REAUME, 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada

Jason Wayne JANTZI, 2200 University Avenue East, Waterloo, ON, N2K 0A7, Canada Yu GAO, 2200 University Ave. East, Waterloo, Ontario, N2K 0A7, Canada Alexander Karl LEVATO, 4701 Tahoe Boulevard, Tahoe A, Mississauga, Ontario, L4W 0B5, Canada

am an/are inventor(s) of an invention entitled CONTROLLING DETECTION OF CARGO TRANSPORTATION UNIT CONDITIONS ("Invention") for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries ("Applications"), as further described below:

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NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S) does/do hereby confirm that ASSIGNOR(S) has/have transferred, conveyed and assigned, and by way of further assurance does/do hereby transfer, convey and assign, any and all of ASSIGNOR(S)'s respective rights, title and interest in and to: the Invention; the Applications; inclusive of any and all priority rights, including the right to claim priority, derived from the Applications; any further applications for patent, design registration, utility model registration or other forms of protection, rights or titles for the whole

or any part or parts of or improvements to the Invention in any country or countries ("Further Applications") together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications ("Divisionals"); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals ("Grants"); and the right to obtain any extensions / supplementary protection certificates ("Extensions"); together with the right to bring proceedings to recover damages and/or to obtain other remedies for acts committed in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

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Page 2 of 8

IN WITNESS WHEREOF, thi undersigned:	is Worldwide Assignn	nent has bed	en executed below	by the
	Date:			
Mahendra FULESHWAR PRASAD			88 88 88 88 88 88	
2200 University Avenue East,				
Waterloo, ON, N2K 0A7, Canada				
2000000		maa		
STA	TEMENT BY WITN	ESS		
* 33 333 333			l Dant Office adda	ana ia
I,		, whose iui	i Post Office addr	USS 18
	(Address of Witness)			papasi, .
	(Manego of Wintego)			
hereby declare that I was personally p	resent and did see the	ahove nam	ed nerson, nerson	allv
known to me to be a person named in	the Worldwide Assig	nment, duly	sign and execute	same.
Miowii to iiio to oo te person miinoa iii	are morrame radice			
	Date:			
(Signature of Witness)				
(Signature of Arthurst)				

BlackBerry	Family	Ref.	No.:	50355
COLUMN TO CO.	* ******			2000

37440,	
Scott Leonard DILL 2200 University Avenue East, Waterloo, Ontario, N2K 0A7, Canada	
STATEMENT B	Y WITNESS
L,	, whose full Post Office address is
(Address of	Witness)
nereby declare that I was personally present and did known to me to be a person named in the Worldwid	
Signature of Witness)	Date:

<u> </u>	Date:	
Iark Edward REAUME 200 University Avenue East, Vaterloo, Ontario, N2K 0A7, Canad	a	
STA	ATEMENT BY WITNE	SSS .
Ĭ,	•	whose full Post Office address is
	(Address of Witness)	
	(1100100001 (1101000)	
ereby declare that I was personally nown to me to be a person named in	present and did see the a 1 the Worldwide Assign	above named person, personally ment, duly sign and execute same.
	Date:	
Signature of Witness)		
Signature of Witness)		

STATEMENT BY WITNESS I,, whose full Post Office address is (Address of Witness) creby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:		
STATEMENT BY WITNESS I,, whose full Post Office address is (Address of Witness) ereby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:		Date:
STATEMENT BY WITNESS I,, whose full Post Office address is (Address of Witness) creby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:		
I,		
I,, whose full Post Office address is (Address of Witness) creby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:		
I,, whose full Post Office address is (Address of Witness) Treby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:		
I,, whose full Post Office address is (Address of Witness) creby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:	open a en	1978 - 6874 - 1971 - 1774 2 - 188 (1970) - 1871 (1970)
(Address of Witness) reby declare that I was personally present and did see the above named person, personally town to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:		EMENI BY WITNESS
(Address of Witness) creby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:		
ereby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:	I,	, whose full Post Office address is
ereby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:		
ereby declare that I was personally present and did see the above named person, personally nown to me to be a person named in the Worldwide Assignment, duly sign and execute same. Date:		
Date:	(4)	Address of Witness
Date:	(A)	Address of Witness)
Date:		
Signature of Witness)	ereby declare that I was personally pre	sent and did see the above named person, personally
Signature of Witness)	ereby declare that I was personally pres	sent and did see the above named person, personally to worldwide Assignment, duly sign and execute same.
	ereby declare that I was personally pre	sent and did see the above named person, personally to worldwide Assignment, duly sign and execute same.
	ereby declare that I was personally pres nown to me to be a person named in th	sent and did see the above named person, personally to worldwide Assignment, duly sign and execute same.
	ereby declare that I was personally pres nown to me to be a person named in th	sent and did see the above named person, personally to worldwide Assignment, duly sign and execute same. Date:
	ereby declare that I was personally pre- nown to me to be a person named in th	sent and did see the above named person, personally to worldwide Assignment, duly sign and execute same. Date:
	ereby declare that I was personally presonance in the nown to me to be a person named in the signature of Witness)	sent and did see the above named person, personally to worldwide Assignment, duly sign and execute same. Date:

Page 6 of 8

	Date:	***************************************		
/u GAO				
200 University Ave. East,				
Vaterloo, Ontario, N2K 0A7, Canad	a			
ST	ATEMENT BY	WITNESS		
Ι,	88			
	Z A 3 3 - E 33	itness)		
	(Address of W	uness)		
nereby declare that I was personally	present and did	see the above r	amed pers	on, personally
cnown to me to be a person named in	a the Worldwide	e Assignment, o	luly sign a	nd execute same.
		Date:	Second	

Page 7 of 8 V7.

IN WITNESS WHEREOF, this Worldw undersigned:	ide Assignment has been executed below by the
Alexander Karl LEVATO 4701 Tahoe Boulevard, Tahoe A, Mississauga, Ontario, L4W 0B5, Canada	te: <u>MAN 21,2018</u>
	BY WITNESS
Hereby declare that I was personally present and known to me to be a person named in the World	of Witness) did see the above named person, personally wide Assignment, duly sign and execute same.
(Signature of Witness)	Date: <u>21/03/2018</u>
Page 8	of 8 V7.3

PATENT REEL: 046110 FRAME: 0204

RECORDED: 05/09/2018