PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Arnett Ryan WEBER	03/02/2012
James Alexander ROBINSON	02/03/2012
Robert James LOWLES	03/06/2012
Kuo-Feng TONG	02/03/2012
Yun Seok CHOI	02/06/2012
Derek Raymond SOLVEN	02/23/2012

RECEIVING PARTY DATA

Name:	RESEARCH IN MOTION LIMITED
Street Address:	295 PHILLIP STREET
City:	WATERLOO, ONTARIO
State/Country:	CANADA
Postal Code:	N2L 3W8

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13273693

CORRESPONDENCE DATA

Fax Number: (561)989-9812 Phone: 561-989-9811 Email: rimadmin@fggbb.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Fleit Gibbons Gutman Bongini & Bianco P.

Address Line 1: 551 NW 77th street

Address Line 2: Suite 111

501875221

Address Line 4: Boca Raton, FLORIDA 33487

380-P0030-US-PAT ATTORNEY DOCKET NUMBER:

> PATENT REEL: 027974 FRAME: 0827

NAME OF SUBMITTER:	JON A. GIBBONS		
Total Attachments: 16			
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PATENT REEL: 027974 FRAME: 0828

WORLDWIDE ASSIGNMENT

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

Arnett Ryan WEBER, 295 Phillip Street, Extension 77717, Waterloo, ON N2L 3W8 Canada

James Alexander ROBINSON, 295 Phillip Street, Ext. 72518, Waterloo, Ontario, N2L 3W8, Canada

Robert James LOWLES, 393 Gatestone Blvd., Waterloo, Ontario, N2T 2J5, Canada Derek Raymond SOLVEN, 608 Yarmouth Dr., Waterloo Ontario, N2K 4C1 Canada Kuo-Feng TONG, 295 Phillip Street, Ext. 79993, Waterloo, Ontario, N2L 3W8, Canada Yun Seok CHOI, 295 Phillip St. Ext. 79949, Waterloo, Ontario N2L 3W8 Canada

am an/are inventor(s) of an invention entitled LIGHT REDIRECTION IN OPTICAL NAVIGATION ("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, Appln. No.: 13/273,693, Filed: October 14, 2011 EP, Appln No.: 11185323.0, Filed: October 14, 2011

AND WHEREAS, RESEARCH IN MOTION 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 295 Phillip Street, Waterloo, Ontario, N2L 3W8, 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.

Date: 03/05/12

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

Arnett Ryan WEBER

295 Phillip Street, Extension 77717

Waterloo, ON

N2L 3W8 Canada

STATEMENT BY WITNESS

I,	Badu	Bedavi	·	, who	se full Post Office address i
	197	Brandon	Ave.	Unit 4	, Kitchener, ON
		(Add	iress of W	Vitness)	•

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: Feb. 3, 2012

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

James Alexander ROBINSON

295 Phillip Street, Ext. 72518

Waterloo, Ontario N2L 3W8, Canada

STATEMENT BY WITNESS

Date: Feb 3/2012

I, Matthew Broga, whose full Post Office address is

55 Pezzack St. Cambridge ON N3C3R7

(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: Feb. 3,2012

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

Janes Zwl Date: March 6, 2012

Robert James LOWLES 393 Gatestone Blvd., Waterloo, Ontario N2T 2J5, Canada

STATEMENT BY WITNESS

I, Jodi Spall , whose full Post Office address is

15 Saddlew ood Dr. Kikherer, ON N2P 2ky

(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 6/12

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:
Date:
Derek Raymond SOLVEN 608 Yarmouth Dr. Waterloo Ontario N2K 4C1 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)

IN WITNESS WH undersigned:	IEREOF, this Worldwid	e Assignment has be	en executed below by the
	ing Tong	Date: Februar	-y 3, 2012
Kuo-Feng TONG 295 Phillip Street, Waterloo, Ontario N2L 3W8, Canada	Ext. 79993		
	STATE	MENT BY WITNES	S
Ι,	Badr Badawi		hose full Post Office address is
<u></u>	(Ad	dress of Witness)	t Kitchener, ON
hereby declare tha known to me to be	at I was personally prese e a person named in the	nt and did see the ab Worldwide Assignm	ove named person, personally ent, duly sign and execute same.
(Signature of Witn	ness)	Date:	Feb. 3, 2012

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

Date: Feb. 6th. 2012

Yun Seok CHOI 295 Phillip St. Ext.79949 Waterloo, Ontario N2L 3W8 Canada

STATEMENT BY WITNESS

I, Thomas GRANDIN, whose full Post Office address is

RSM4 -305 Philip St. WATERLOO, ON CAMPUA NZL 3W8 (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: 06 feb 2012

WORLDWIDE ASSIGNMENT

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

Arnett Ryan WEBER, 295 Phillip Street, Extension 77717, Waterloo, ON N2L 3W8 Canada

James Alexander ROBINSON, 295 Phillip Street, Ext. 72518, Waterloo, Ontario, N2L 3W8, Canada

Robert James LOWLES, 393 Gatestone Blvd., Waterloo, Ontario, N2T 2J5, Canada 25-7 PALMILLA DRIVE, WATER 30-31, SAN JONE, CA, 95134, UISA Derek Raymond SOLVEN, 608 Yarmouth Dr., Waterloo Ontario, N2K 4C1 Canada Kuo-Feng TONG, 295 Phillip Street, Ext. 79993, Waterloo, Ontario, N2L 3W8, Canada Yun Seok CHOI, 295 Phillip St. Ext. 79949, Waterloo, Ontario N2L 3W8 Canada

am an/are inventor(s) of an invention entitled LIGHT REDIRECTION IN OPTICAL NAVIGATION ("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

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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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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.

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IN WITNESS WHEREOF, this Work undersigned:	idwide Assignment has been executed below by the
3	Date:
Arnett Ryan WEBER 295 Phillip Street, Extension 77717 Waterloo, ON N2L 3W8 Canada	
STATEME	ENT BY WITNESS
I,	, whose full Post Office address is
(Addre	ess of Witness)
hereby declare that I was personally present a known to me to be a person named in the Wo	and did see the above named person, personally orldwide Assignment, duly sign and execute same.
(Signature of Witness)	Date:

Page 3 of 8

IN WITNESS WHEREOF, this undersigned:	Worldwide Assignment l	has been executed below by the
	Date:	· · · · · · · · · · · · · · · · · · ·
James Alexander ROBINSON 295 Phillip Street, Ext. 72518 Waterloo, Ontario N2L 3W8, Canada		
1921) 5 w.o., Canada		
	STATEMENT BY WIT	TNESS
Ι,		, whose full Post Office address is
	(Address of Witnes	SS)
		the above named person, personally signment, duly sign and execute same.
(Signature of Witness)	Date	×

Page 4 of 8

IN WITNESS WHEREOF, this undersigned:	s Worldwide Assignment has been exe	cuted below by the
	Date:	
Robert James LOWLES 393 Gatestone Blvd., Waterloo, Ontario		
N2T 2J5, Canada		
		•
	STATEMENT BY WITNESS	
·	•	
I,	, whose fu	ıll Post Office address is
Ι,	, whose fu	ıll Post Office address is
Ι,	, whose for (Address of Witness)	all Post Office address is
Ι,		all Post Office address is
nereby declare that I was person		ned person, personally
nereby declare that I was person	(Address of Witness) nally present and did see the above nar	ned person, personally
nereby declare that I was person	(Address of Witness) nally present and did see the above nar	ned person, personally
nereby declare that I was person	(Address of Witness) nally present and did see the above nar	ned person, personally

Page 5 of 8

IN W under	ITNESS WH signed:	EREOF, this Worldwid	e Assignment h	as been executed belo	w by the
	Z.L		Date: Feb	23, 2012	
608 Y Water	Raymond Stamouth Dr. loo-Ontario ICI-Canada	3507 PALMILLA		•	
		STATEM	ENT BY WITH	NESS	
	I, <u>ARA</u>	M BASSER,		_, whose full Post Of	fice address is
	1260	<u>-2 リタグシア</u> (Add	て、 REO v dress of Witness	JOOD CITY,	eq. 9406)
hereby knowr	declare that to me to be	I was personally presen a person named in the V	it and did see the Vorldwide Assig	e above named person gnment, duly sign and	n, personally l execute same.
(Sioha	thre of Witne	1220	Date:	2/23/12	
Come to Service	was well if still				

Page 6 of 8

	Date:
* ************************************	
Kuo-Feng TONG 295 Phillip Street, Ext. 79993 Waterloo, Ontario N2L 3W8, Canada	
	STATEMENT BY WITNESS
I,	, whose full Post Office address is
MATERIAL	(Address of Witness)
hereby declare that I was person na	onally present and did see the above named person, personally imed in the Worldwide Assignment, duly sign and execute same
hereby declare that I was perso known to me to be a person na	onally present and did see the above named person, personally med in the Worldwide Assignment, duly sign and execute same
hereby declare that I was perso known to me to be a person na	onally present and did see the above named person, personally med in the Worldwide Assignment, duly sign and execute same
hereby declare that I was person na known to me to be a person na (Signature of Witness)	onally present and did see the above named person, personally amed in the Worldwide Assignment, duly sign and execute same Date:

Page 7 of 8

•				
	Date:_			
Yun Scok CHOI 95 Phillip St. Ext.79949 Vaterloo, Ontario I2L 3W8 Canada				÷
	STATEMENT BY	WITNESS		
I,		, whose f	ull Post Office	address i
	(Address of W	itness)	, <u>, , , , , , , , , , , , , , , , , , </u>	
ereby declare that I was pers nown to me to be a person n	onally present and did amed in the Worldwide	see the above na Assignment, du	med person, poly ly sign and ex-	ersonally ecute sam

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