503432706 08/12/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3479330

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAPHAEL TSU	04/18/2013
WATTAKA SITAPURA	04/17/2013
JOHN HUDAK	04/16/2013

RECEIVING PARTY DATA

Name:	THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE
Street Address:	9201 UNIVERSITY CITY BLVD.
City:	CHARLOTTE
State/Country:	NORTH CAROLINA
Postal Code:	28223-0001

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	9000432

CORRESPONDENCE DATA

Fax Number: (703)836-2787

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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 703-836-6400
Email: email@oliff.com
Correspondent Name: R. BRIAN DROZD

Address Line 1: OLIFF PLC

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	157164.01
NAME OF SUBMITTER:	CHANDEL LAWRENCE
SIGNATURE:	/Chandel Lawrence/ for R. Brian Drozd
DATE SIGNED:	08/12/2015

Total Attachments: 6

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PATENT 503432706 REEL: 036304 FRAME: 0632

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DECLARATION AND ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))

For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

the unc	dersigned, the receipt and suffici and hereby does assign, transfe THE UNIVERSITY OF 9201 University City Bl	iency of which are I r and set over to NORTH CAR	r good and valuable consideration paid to each of the		
(7) In consthe uncassign,	dersigned, the receipt and suffici and hereby does assign, transfe THE UNIVERSITY OF 9201 University City Bl	(8) lar (\$1.00) and other lency of which are better and set over to	nereby acknowledged, each undersigned agrees to		
In consthe undassign,	dersigned, the receipt and suffici and hereby does assign, transfe THE UNIVERSITY OF 9201 University City Bl	lar (\$1.00) and othe iency of which are h r and set over to F NORTH CAR	nereby acknowledged, each undersigned agrees to		
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, ,	9201 University City BI		OLINA AT CHARLOTTE		
(10)	• •	vd.			
(10)	Charlotte North Carolin				
	Charlotte, North Carolina 28223-0001				
the enti- inventi- continu	ire right, title and interest for the on, and in all applications for pa	e United States of A atent including any and reissue applicati y be granted on the			
GD2O3(100)/N-SI(100)					
(Attorn	ney Docket No. 157164), f	iled on even date herewith or as		
(12)	U.S. Application Number				
filed	•				
	(12) filed	(Attorney Docket No. 157164 (12) U.S. Application Number filed	(Attorney Docket No. 157164), f		

- declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or
- reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

(13)Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Date	4/18/2013	Inventor Signature		ephl	24-	_ (SEAL)
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DECLARATION AND ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))

For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

	Insert	(1)	Kapnaei 150		(2)	Wallaka SITAT UKA
(1-8)	Legal Name(s)	(3)	John HUDAK		(4)	
	of Inventor(s)	(5)			(6)	
		(7)			(8)	
		the un-	dersigned, the rec		of which are l	r good and valuable consideration paid to each of nereby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignee	(9)	THE UNIV	ERSITY OF NO	ORTH CAR	OLINA AT CHARLOTTE
	Insert Address of	(10)	9201 Unive	rsity City Blvd.		
(10)	Assignee	(10)	Charlotte, N	lorth Carolina 2	8223-0001	
		the entinyent	tire right, title and ion, and in all app nation, internation	l interest for the Un dications for patent hal, substitute and r	ited States of A including any eissue applicati	eirs, successors, assigns and legal representatives, timerica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, ion(s), and all Letters Patent, extensions, reissues invention known as
(11)	Insert Identification such as Title, Case	(11)	ENHANCED	ELECTRON MOB	ILITY AT THI	E INTERFACE BETWEEN
	Number, or Foreign		GD2O3(100)/1	4-SI(100)		
	Application Number	(Attor	ney Docket No.	157164), 1	filed on even date herewith or as
(12)	Alternative	(12)	U.S. Application	Number		
	Identification for					
	filed applications	filed				

- Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
 Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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As an above named inventor, I hereby declare that:

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 04/17/13 Inventor Signature Will State (SEAL)

DECLARATION AND ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))

For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

	msert	(1)	Kapitaci 130		(2)	Trattuna 3317ti Olez
(1-8)	Legal Name(s)	(3)	John HUDAK		(4)	
	of Inventor(s)	(5)			(6)	
		(7)			(8)	
	,	theun	dersigned, the rec		y of which are l	r good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignee	(9)	THE UNIV	ERSITY OF N	ORTH CAR	OLINA AT CHARLOTTE
<10)	Insert Address of	(10)	9201 Univer	sity City Blvd.		
(10)	Assignee	(10)	Charlotte, N	orth Carolina 2	8223-0001	
		the ent invent contin	tire right, title and ion, and in all app uation, internation	interest for the Un lications for patent al, substitute and i	nited States of A t including any reissue applicat	eirs, successors, assigns and legal representatives, timerica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, ion(s), and all Letters Patent, extensions, reissues invention known as
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	Number, or Foreign		GD2O3(100)/N	N-SJ(100)		
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Date	4-16-2013	Inventor Signature	206	- Idudak	(SEAL)
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PATENT REEL: 036304 FRAME: 0639

RECORDED: 08/12/2015