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Attorney Docket No.

157164

1)NUV4717-13	Attorney Docket 140. 15/104				
Please record the attached or	iginal document or copy thereof.				
1. A. Name of conveying parties:	2. A. Name and address of receiving party:				
1) Raphael TSU 2) Wattaka SITAPURA 3) John HUDAK	THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE 9201 UNIVERSITY CITY BLVD. CHARLOTTE, NORTH CAROLINA				
B. Additional name(s) of conveying party(ies) attached? ☐ Yes ☑ No	28223-0001				
3. A. Nature of conveyance:	B. Additional name(s) & address(es) attached? ☐ Yes ☒ No				
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☐ Security Agreement ☐ Change of Name	·	,			
Other					
	·				
B. Execution Date: 1) April 18, 2013;2) April 17, 2013; 3) April 16, 2013					
4. This document is being filed together with a new appl	ication.				
A. Patent Application No.(s)	B. Patent No.(s)				
Additional numbers a	utached?	22 A S S S S S S S S S S S S S S S S S S			
C. Title of Application: ENHANCED ELECTRON GD2O3(100)/N-SI(100)	MOBILITY AT THE INTERFACE BETWEEN				
D. A This Assignment is submitted for a dual purpo the above-identified application as the oath or	ose: (1) recording in the assignment database; and (2) for use in declaration pursuant to 37 CFR 1.63(c).				
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1				
Name: R. Brian Drozd	7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.				
Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850	Credit any overpayment or charge any underpayment to deposit account number/15204613 KNSUYEN1 00660037 1	i9461 13867389			
7510ARING 124, 771 22320 1000	B) FC:8091 40 00 00				
9. Statement and signature. To the best of my knowledge and belief, the foregoing information original document.	mation is true and correct and any attached copy is a true copy of the Date: April 22, 2013				
R. Brian Drozd Registration No. 55,130					
Total number of pages including cover sheet, attachments, and document: 5					

PATENT REEL: 030332 FRAME: 0424 Phoenix Applications Management System

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date: 04-24-2013

Table of Contents (Selected Documents)								
Date	Code	Pages	PackageID	Source	Annotation			
04 22 2012	\triangle	E	110 120672000	ADA EECIM				

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)	Raphael TSU	(2)	Wattaka SITAPURA
(1-8)	Legal Name(s)	(3)	John HUDAK	(4)	
	of Inventor(s)	(5)		(6)	
		(7)		(8)	
		the unc		fficiency of which are	er good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignee	(9)	THE UNIVERSITY	OF NORTH CAF	OLINA AT CHARLOTTE
(10)	Insert Address of Assignee	(10)	9201 University City	Blvd.	
(10)			Charlotte, North Card	olina 28223-0001	
(11)	Insert Identification such as Title, Case	contin	uation, international, substituexamination certificates that	ite and reissue applica may be granted on the	and all provisional, non-provisional, divisional, tion(s), and all Letters Patent, extensions, reissues invention known as
	Number, or Foreign Application Number		GD2O3(100)/N-SI(100)		
		(Attor	ney Docket No. 157164),	filed on even date herewith or as
(12)	Alternative	(12)	U.S. Application Number		
	Identification for				,
	filed applications	filed			
declared	ite separate assignments in 2) Each undersigned agree concerning any application as forward with such interfe	connection es to execu or patent erence or p	with such applications and ute all papers necessary in c for the invention and to coc ost-grant proceeding.	patents as the Assign connection with any in operate with the Assign	pplication and/or patent for the invention and also nee may deem necessary. Iterference or post-grant proceeding which may be the in every way possible in obtaining evidence t 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 Reph Jan (SEAL)

PATENT REEL: 030332 FRAME: 0427 In witness whereof, executed by the undersigned on the date(9) opposite the undersigned name(s).

Date 04/17/13

Inventor Signature

(SEAL)

PATENT REEL: 030332 FRAME: 0428 Date 4-16-2013

Inventor Signature

(SEAL

PATENT REEL: 030332 FRAME: 0429

RECORDED: 04/22/2013