

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT4573501

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
EDMOND LAVOIE	12/18/2013
AJIT PARHI	07/15/2014
DANIEL S. PILCH	10/24/2013
MALVIKA KAUL	10/24/2013
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<b>City:</b>	NEW BRUNSWICK
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	08909
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14371950
<b>CORRESPONDENCE DATA</b>	
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<b>NAME OF SUBMITTER:</b>	ROBERT J. HARRIS
<b>SIGNATURE:</b>	/Robert J. Harris, Reg. No., 37,346/
<b>DATE SIGNED:</b>	08/30/2017
<b>Total Attachments: 5</b>	
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**ASSIGNMENT**

WHEREAS, We, Edmond J. LaVoie, Ajit Parhi, Daniel S. Pilch and Malvika Kaul made certain new and useful inventions and improvements for which we filed an International Patent Application on JANUARY 11, 2013, which application was assigned International Patent Application Number PCT/US2013/021295.

AND WHEREAS, Rutgers, The State University of New Jersey, a university organized and existing under and by virtue of the laws of the state of New Jersey, having an office and place of business at Old Queens Building, Somerset and George Streets, New Brunswick, New Jersey 08903 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to any Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, we hereby sell, assign, transfer and set over unto said Assignee, including its successors and assigns, our entire right, title and interest to all inventions disclosed in the aforesaid application(s), including all rights to claim priority therefrom, and to any and all present or future patent applications to such inventions filed in the United States or any other country or region, inclusive of, but not limited to, all divisions, continuations, continuations-in-part, renewals thereof, substitutions, reexaminations, reissues, provisional patent applications, applications filed under the Patent Cooperation Treaty, certificates of addition, utility models, and petty patents, as well as all other intellectual property related to the applications, inclusive of, but not limited to, supplementary protection certificates, and to any and all Letters Patents and any related patent term extensions that may be granted for said Letters Patents with respect to the applications; all of the above to be held by Assignee as fully and entirely as the same would have been held by us had this Assignment not been made.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents,





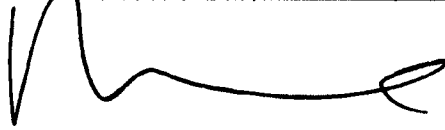


Serial No. PCT/US2013/021295

ASSIGNEE:

WE AGREE TO AND ACCEPT THE ATTACHED ASSIGNMENT DOCUMENT ON THIS  
18 DAY OF JUNE, 2014

RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

  
\_\_\_\_\_

NAME: Richard Mammone, PhD

TITLE: Associate Vice President  
of Innovation & Partnerships

STATE OF NEW JERSEY )

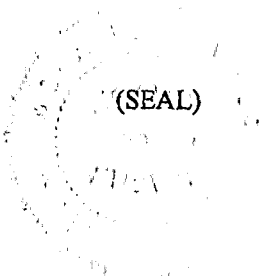
) SS.

COUNTY OF MIDDLESEX )

BEFORE ME, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE,  
PERSONALLY APPEARED Richard Mammone, PhD KNOWN TO ME TO BE THE PERSON  
WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED  
TO ME THAT HE/SHE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS  
THEREIN EXPRESSED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 18<sup>th</sup> DAY OF  
June, 2014

NOTARY PUBLIC Mona L. Daniels



**MONA L. DANIELS**  
**NOTARY PUBLIC OF NEW JERSEY**  
**ID # 2446352**  
**My Commission Expires 4/17/2019**