502525765 10/09/2013

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2570982

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GERALD FRANCIS	10/30/2012
ROLANDO BURGOS	09/24/2012
DUSHAN BOROYEVICH	09/24/2012
FRED WANG	09/28/2012
ZHIYU SHEN	09/20/2012
PAOLO MATTAVELLI	09/21/2012

RECEIVING PARTY DATA

Name:	Virginia Polytechnic Institute and State University	
Street Address:	301 Burruss Hall	
City:	Blacksburg	
State/Country:	VIRGINIA	
Postal Code:	24061	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13618513

CORRESPONDENCE DATA

 Fax Number:
 (540)951-5292

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Correspondent Name: VIRGINIA TECH INTELLECTUAL PROPERTIES

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ATTORNEY DOCKET NUMBER:	12-010_1 US
NAME OF SUBMITTER:	MARK S. COBURN

502525765 REEL: 031369 FRAME: 0860

Signature:	/Mark S. Coburn/
Date:	10/09/2013
Total Attachments: 4 source=12-010 Assign Inv to VT 13618513#page1.tif source=12-010 Assign Inv to VT 13618513#page2.tif source=12-010 Assign Inv to VT 13618513#page3.tif source=12-010 Assign Inv to VT 13618513#page4.tif	

Serial Number: 13/618,513

ASSIGNMENT

WHEREAS, I/we, the below-named inventor(s) (hereinafter referred to as ASSIGNORS) whose residence address is stated below, have invented certain new and useful improvements in an invention entitled:

An Algorithm and Implementation System for Measuring Impedance in the D-Q Domain

for which an application for United States Letters Patent Serial No. <u>13/618,513</u> has been filed on 9/14/2012; and

WHEREAS, Virginia Polytechnic Institute and State University, (hereinafter referred to as ASSIGNEE), an institute of higher education organized under the laws of the Commonwealth of Virginia, having an office and principal place of business at 301 Burruss Hall, Blacksburg, Virginia, 24061, is desirous of acquiring the entire right, title and interest in, to and under said application and said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries and any non-provisional applications claiming the benefit of said application to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue, enforce and defend said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Serial Number: 13/618,513	
Full Name of Inventor: Gerald Francis Residence: 8750 Georgia Avenue, #529-A, Silver Spring, M N 345 Little Patwent of Signature:	Taryland 20910 Columbia MD 2104 Style Colombia MD 2104 Date: OCTOBIR 30th 2012
Full Name of Inventor: Rolando Burgos Residence: 8700 Hunters Mill Road NW, Apt E, Blacksburg	, Virginia 24060
Signature:	Date:
Full Name of Inventor: Dushan Boroyevich Residence: 423 Seminole Drive, Blacksburg, Virginia 24060	
Signature:	Date:
Full Name of Inventor: Fred Wang Residence: 12001 Butternut Lane, Knoxville, Tennessee 379	234
Signature:	Date:
Full Name of Inventor: Zhiyu Shen Residence: 1234 University City Blvd, Apt N-149, Blacksbu	rg, Virginia 24060
Signature:	Date:
Full Name of Inventor: Paolo Mattavelli Residence: 18000-L Cardinal Court, Blacksburg, Virginia 24	1060

Signature: _____ Date: _____

VTIP 12-010

Serial Number: 13/618,513 Full Name of Inventor: Gerald Francis Residence: 8750 Georgia Avenue, #529-A, Silver Spring, Maryland 20910 Signature: ______ Date: _____ Full Name of Inventor: Rolando Burgos Residence: 8700 Hunters Mill Road NW, Apt E, Blacksburg, Virginia 24060 M Date: 9/24/12 Full Name of Inventor: Dushan Boroyevich Residence: 423 Seminole Drive, Blacksburg, Virginia 24060 Signature: 2012, 09, \$24 Full Name of Inventor: Fred Wang Residence: 12001 Butternut Lane, Knoxville, Tennessee 37934 Signature: _____ Date: ____ Full Name of Inventor: Zhiyu Shen Residence: 1234 University City Blvd, Apt N-149, Blacksburg, Virginia 24060 Signature: Thiyn 9h Date: 09/w/w/2

Signature: Par Mattersolv Date: 9/2//2012

VTIP 12-010

Full Name of Inventor: Paolo Mattavelli

Residence: 18000-L Cardinal Court, Blacksburg, Virginia 24060

Serial Number: 13/618.513 Full Name of Inventor: Gerald Francis Residence: 8750 Georgia Avenue, #529-A, Silver Spring, Maryland 20910 Full Name of Inventor: Rolando Burgos Residence: 8700 Hunters Mill Road NW, Apt E, Blacksburg, Virginia 24060 Signature: Date: Full Name of Inventor: Dushan Boroyevich Residence: 423 Seminole Drive, Blacksburg, Virginia 24060 Signature: _____ Date: _____ Full Name of Inventor: Fred Wang Residence: 12001 Butternut Lane, Knoxville, Tennessee 37934 Signature: Full Name of Inventor: Zhiyu Shen Residence: 1234 University City Blvd, Apt N-149, Blacksburg, Virginia 24060 Signature: _____ Date: _____

Signature: _____ Date: _____

VTIP 12-010

Full Name of Inventor: Paolo Mattavelli

RECORDED: 10/09/2013

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