

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT3243463

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DI WU	10/26/2012
KONRAD WORONOWICZ	10/26/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BOMBARDIER TRANSPORTATION GMBH
<b>Street Address:</b>	SCHOENEBERGER UFER 1
<b>City:</b>	BERLIN
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	10785
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14424346
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)945-5933
<i>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.</i>	
<b>Phone:</b>	412-471-8815
<b>Email:</b>	assignments@webblaw.com
<b>Correspondent Name:</b>	THE WEBB LAW FIRM, P.C.
<b>Address Line 1:</b>	ONE GATEWAY CENTER
<b>Address Line 2:</b>	420 FT. DUQUESNE BLVD, SUITE 1200
<b>Address Line 4:</b>	PITTSBURGH, PENNSYLVANIA 15222
<b>ATTORNEY DOCKET NUMBER:</b>	7170-150419
<b>NAME OF SUBMITTER:</b>	RICHARD L. BYRNE
<b>SIGNATURE:</b>	/richard l byrne/
<b>DATE SIGNED:</b>	02/26/2015
<b>Total Attachments: 3</b>	
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### RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Di WU  
Konrad WORONOWICZ

Additional name(s) of conveying party(ies) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) October 26, 2012

- Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other

**2. Name and address of receiving party(ies)**

Name: BOMBARDIER TRANSPORTATION GMBH

Internal Address: \_\_\_\_\_

Street Address: Schoeneberger Ufer 1

City: Berlin

State: \_\_\_\_\_

Country: GERMANY Zip: 10785

Additional name(s) & address(es) attached?  Yes  No

**4. Application or patent number(s):**

A. Patent Application No.(s)

14/424,346

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Russell D. Orkin

Internal Address: The Webb Law Firm

Street Address: One Gateway Center  
420 Ft. Duquesne Blvd., Ste 1200

City: Pittsburgh

State: PA Zip: 15222

Phone Number: 412-471-8815

Fax Number: 412-945-5933

Email Address: assignments@webblaw.com

**6. Total number of applications and patents involved: 1****7. Total fee (37 CFR 1.21(h) & 3.41) \$ 0**

- Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

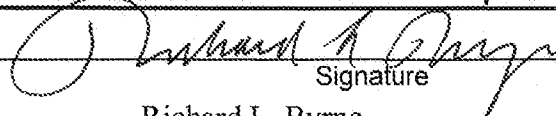
**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**

  
Signature

February 26, 2015  
Date

Richard L. Byrne  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

### CONFIRMATORY ASSIGNMENT

WHEREAS, Di Wu, citizen of China, residing at 485 Canatara Court apt. 511, Kingston, ON, Canada, K7M 6G6; Konrad Woronowicz, citizen of Canada, residing at 5029 Fox Run Place, Kingston, ON, Canada, K7P 0E4, hereinafter referred to as the "Assignors", made an invention as described and claimed in the following patent application, hereinafter referred to as the "Application":

Title	Filing Date	Country/Region or PCT	Serial Number
ADAPTIVE SOFT SWITCHING CONTROL FOR POWER CONVERTER	August 27, 2012	PCT	PCT/CA2012/000797

AND WHEREAS, BOMBARDIER TRANSPORTATION GMBH, whose full post office address is Schoeneberger Ufer 1, 10785 Berlin, Germany, (hereinafter referred to as the "Assignee"), is desirous of confirming acquisition of the entire right, title, and interest in and to the invention, and in and to the Application inclusive of any continuations or divisions thereof and all priority rights derived therefrom, for any and all countries in the world, and in and to any and all corresponding patent applications and any continuations or divisions thereof filed in any and all countries in the world, and in and to any and all patents issuing in any and all countries of the world, to be granted for the invention based on the Application or on corresponding patent applications;

NOW, THEREFORE, in consideration of the sum of ten Canadian dollars (\$10.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignors hereby confirm having sold, assigned and transferred to the Assignee, its successors and assigns, their entire right, title, and interest in and to the invention, and in and to the Application inclusive of any continuations or divisions thereof and all priority rights derived therefrom, and in and to any and all corresponding patent applications and any continuations or divisions thereof filed in any and all countries in the world, and in and to any and all patents which may be granted for the invention in any and all countries in the world, and in and to any and all reissues, substitutions, or prolongations thereof; the same to be held and enjoyed by the Assignee for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term or terms for which the patent, or reissues, substitutions or prolongations thereof may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors had no sale, assignment or transfer been made;

AND the Assignors hereby agree, upon request, and without further consideration, but at the expense of the Assignee, to communicate to the Assignee or its representatives or nominees any facts known to them respecting the invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally aid the Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention in all countries, and the Assignors further agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of the Assignee, its successors and assigns, in and to the invention, and in and to any and all patents, or reissues, substitutions or prolongations thereof, which may be granted for the invention in any and all countries in the world;

AND the Assignors hereby authorize and request any official whose duty it is to issue patents to issue each and every patent to be granted for the invention in any and all countries, and each and every reissue, substitution or prolongation of such patent, to the Assignee, its successors and assigns;

AND the Assignors hereby authorize the firm of SMART & BIGGAR whose full post office address is 1000 De La Gauchetière West, Suite 3300, Montreal, Quebec, H3B 4W5, CANADA to correct clerical errors in the Assignment or to insert any further identification or other information necessary or desirable to make the Assignment suitable for recordal by a Patent Office;

THIS Assignment is made effective as of August 27, 2012.

SIGNED this 26 day of October, 2012

Wu Di  
Di Wu

**DECLARATION OF WITNESS**

I, Alireza Sofae, whose full postal address is 48-244 St John A Macdonald Blvd, Kingston ON, hereby declare that I was personally present and did see Wu Di, who is personally known to me to be the person named in this Assignment, sign and execute same.

Declared at Kingston, this 26 day of October, 2012.  
(Locality)

Sofae  
Witness signature

SIGNED this 26 day of October, 2012

Konrad Woronowicz  
Konrad Woronowicz

**DECLARATION OF WITNESS**

I, Alireza Sofae, ON whose full postal address is 48-244 St John A Macdonald Blvd, Kingston hereby declare that I was personally present and did see Konrad Woronowicz, who is personally known to me to be the person named in this Assignment, sign and execute same.

Declared at Kingston, this 26 day of October, 2012.  
(Locality)

Sofae  
Witness signature