PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3824014

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIMOTHY F. MASTERS	01/13/2014
ARMANDO VARELA	01/15/2014

RECEIVING PARTY DATA

Name:	ABB TECHNOLOGY AG	
Street Address:	AFFOLTERNSTRASSE 44	
City:	ZURICH	
State/Country:	SWITZERLAND	
Postal Code:	CH-8050	

PROPERTY NUMBERS Total: 3

Property Type	Number
Application Number:	29532072
Application Number:	29532064
Application Number:	29465681

CORRESPONDENCE DATA

Fax Number: (317)713-3699

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.

Phone: 3177133500

Email: Taft-IP-Docket@taftlaw.com

Correspondent Name: TAFT STETTINIUS & HOLLISTER LLP

Address Line 1: DOUGLAS A. COLLIER

Address Line 2: ONE INDIANA SQUARE, STE. 3500
Address Line 4: INDIANAPOLIS, INDIANA 46204

ATTORNEY DOCKET NUMBER:	ABBI-350, 351 AND 352
NAME OF SUBMITTER:	LISA SCHODROWSKI
SIGNATURE:	/LISA SCHODROWSKI/
DATE SIGNED:	04/11/2016

Total Attachments: 4

source=Assignment#page1.tif source=Assignment#page2.tif

PATENT 503777368 REEL: 038244 FRAME: 0477

source=Assignment#page3.tif source=Assignment#page4.tif

> PATENT REEL: 038244 FRAME: 0478

Attorney Docket No.: US-1305S-DZT

ASSIGNMENT

This ASSIGNMENT by Timothy F. Masters and Armando Varela residing at 6 Rabbit Run Pl., The Woodlands, TX 77382 and 22324 Boyaca Avenue, Boca Ratan, FL 33433, respectively (hereinafter referred to as the "Assignor"), have invented certain new and useful improvements described in the Application for Letters Patent of the United States entitled: WIRE-ALIKE PROTECTION RELAY REPLACEMENT, which is a Design application having Attorney Docket No. US-13055-DZT

For good and sufficient consideration, the receipt of which is hereby acknowledged, each Assignor agrees to assign, and hereby does assign, transfer and set over to ABB Technology AG, a corporation duly organized under the laws of Switzerland, and having a principal place of business at Affolternstrasse 44, Zurich, Switzerland CH-8050, (hereinafter referred to as the Assignee) his or her entire right, title and interest in the Application and the invention(s) described therein as well as the right to claim priority from the Application in the United States, its territories, dependencies and possessions, and for all other national jurisdictions and international entities that have the power to grant patents, wherever situated. The foregoing assignment includes, without limitation, all applications for patent which claim priority to and/or the benefit of the subject matter disclosed in the Application, including any utility application and/or design application, as well as any continuation application, divisional application, continuation-in-part application, reissue application, reexamination application, patent interference proceeding, and any foreign national application and/or any application filed or to be filed under a patent treaty such as the International Convention for Protection of Industrial Property and/or the Patent Cooperation Treaty, and any Letters Patent which may be granted therefor in any jurisdiction.

Each Assignor agrees to execute all papers and documents and perform any act which maybe necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

Each Assignor agrees to perform all affirmative acts which may be necessary to obtain a grant of a valid United States Patent to the Assignee including the duty to disclose to the United States Patent and Trademark Office all information known to the Assignor to be material to the patentability of the U.S. patent application for this invention as defined in Section 1.56 of Title 37 Code of Federal Regulations.

Each Assignor agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

ş

PATENT REEL: 038244 FRAME: 0479 Attorney Docker No.: US-13055-DZT

Each Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any and all Letters Patent of the United States resulting from the Application or any divisions or continuing applications thereof to the Assignee of the entire interest in the inventions and hereby coverant that he or she has the full right to convey the entire interest herein assigned, and that he or she has not executed and will not execute, any agreement in conflict herewith.

Each Assignor hereby authorizes and requests the attorneys of the ABB Inc. Intellectual Property Law Department located in Wickliffe, OH to insert in 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 or with the rules of any other national or international Patent Office for recordation of this document or a true copy thereof.

Signature of Assignor:		Date			
	Fimothy F. Masters				
Signature of Assignon {	Aghando Varela	Date		lis _j	12014

Received a	ind accepted	by:	
ABB TEC	HNOLOGY	AG	
	***********	amen	
Paul R. Ka	itterle		

Chief Counsel Intellectual Property, ABB North America

Attorney Docket No.: US-13055-DZT

ASSIGNMENT

This ASSIGNMENT by Timothy F. Masters and Armando Varela residing at 6 Rabbit Run Pl., The Woodlands, TX 77382 and 22324 Boyaca Avenue, Boca Ratan, FL 33433, respectively (hereinafter referred to as the "Assignor"), have invented certain new and useful improvements described in the Application for Letters Patent of the United States entitled: WIRE-ALIKE PROTECTION RELAY REPLACEMENT, which is a Design application having Attorney Docket No: US-13055-DZT

For good and sufficient consideration, the receipt of which is hereby acknowledged, each Assignor agrees to assign, and hereby does assign, transfer and set over to ABB Technology AG, a corporation duly organized under the laws of Switzerland, and having a principal place of business at Affoltemstrasse 44, Zurich, Switzerland CH-8050, (hereinafter referred to as the Assignee) his or her entire right, title and interest in the Application and the invention(s) described therein as well as the right to claim priority from the Application in the United States, its territories, dependencies and possessions, and for all other national jurisdictions and international entities that have the power to grant patents, wherever situated. The foregoing assignment includes, without limitation, all applications for patent which claim priority to and/or the benefit of the subject matter disclosed in the Application, including any utility application and/or design application, as well as any continuation application, divisional application, continuation-in-part application, reissue application, reexamination application, patent interference proceeding, and any foreign national application and/or any application filed or to be filed under a patent treaty such as the International Convention for Protection of Industrial Property and/or the Patent Cooperation Treaty, and any Letters Patent which may be granted therefor in any jurisdiction.

Each Assignor agrees to execute all papers and documents and perform any act which maybe necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

Each Assignor agrees to perform all affirmative acts which may be necessary to obtain a grant of a valid United States Patent to the Assignee including the duty to disclose to the United States Patent and Trademark Office all information known to the Assignor to be material to the patentability of the U.S. patent application for this invention as defined in Section 1.56 of Title 37 Code of Federal Regulations.

Each Assignor agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

Attorney Docket No.: US-13055-DZT

Each Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any and all Letters Patent of the United States resulting from the Application or any divisions or continuing applications thereof to the Assignee of the entire interest in the inventions and hereby covenant that he or she has the full right to convey the entire interest herein assigned, and that he or she has not executed and will not execute, any agreement in conflict herewith.

Each Assignor hereby authorizes and requests the attorneys of the ABB Inc. Intellectual Property Law Department located in Wickliffe, OH to insert in 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 or with the rules of any other national or international Patent Office for recordation of this document or a true copy thereof.

Signature of Assignor:	Timothy F. Masters Date 1/23/14 Date 1/23/14
Signature of Assignor:	DateDate
	Received and accepted by: ABB TECHNOLOGY AG
	Paul R. Katterfe Chief Counsel Intellectual Property, A68 North America

2