12/16/2015 503613494

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3660125

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL N. ABDELMALAK	12/08/2015
SRIKANTH ALLU	12/15/2015
NANCY J. DUDNEY	12/08/2015
JIANLIN LI	12/08/2015
SRDJAN SIMUNOVIC	12/08/2015
HSIN WANG	12/08/2015

RECEIVING PARTY DATA

Name:	UT-Battelle, LLC
Street Address:	One Bethel Valley Road
Internal Address:	4500N, MS-6258
City:	Oak Ridge
State/Country:	TENNESSEE
Postal Code:	37831-6258

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14955366

CORRESPONDENCE DATA

Fax Number: (865)574-0381

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: (865) 574-4178 Email: warfielde@ornl.gov JOSEPH A. MARASCO **Correspondent Name:**

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Address Line 2: 4500N, MS-6258

Address Line 4: OAK RIDGE, TENNESSEE 37831-6258

ATTORNEY DOCKET NUMBER:	3376.0 UTB
NAME OF SUBMITTER:	ELIZABETH WARFIELD
SIGNATURE:	/Elizabeth Warfield/
DATE SIGNED:	12/16/2015

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PATENT REEL: 037301 FRAME: 0149

ASSIGNMENT

WHEREAS, we the below-named inventors whose residences are as stated below, have an interest in an invention entitled:

Current Collectors for Improved Safety

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 14/955,366 filed on December 1, 2015, and

WHEREAS, UT-BATTELLE, LLC, a limited liability company of the State of Tennessee, having an office at One Bethel Valley Road, P. O. Box 2008, Oak Ridge, Tennessee 37831-6258, hereinafter referred to as "ASSIGNEE," is desirous of acquiring our entire right, title and interest of the undersigned in the same:

NOW, THEREFORE, in accordance with the terms of our employment agreement with ASSIGNEE and for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign and transfer to ASSIGNEE and its successors in interest our entire right, title and interest in the Subject Invention to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the Subject Invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or patent applications therefor on the Subject Invention.

We hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, we hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said Subject Invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said Subject Invention in the United States of America and in any and all foreign countries.

We further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on us, our heirs, legal representatives, and assigns.

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PATENT REEL: 037301 FRAME: 0150

	Michael N. Abdelmalak
Signature: Mic	hard N. Abolum 1011 Date: 12/8/2015
Residence:	7100 La Christa Way, Knoxville, Tennessee 32921
Name of Inventor:	Srikanth Allu
Signature:	Date:
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Name of Inventor:	Nancy J. Dudney
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Name of Inventor:	Jianlin Li
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Residence:	790 N. Cedar Bluff Road, Apt. 515, Knoxville, Tennessee 37923
Name of Inventor:	Srdjan Simunovic
Signature:	Date:
Residence:	10602 Eagle Glen Drive, Knoxville, Tennessee 37922
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Name of Inventor:	Hsin Wang
	Date:
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PATENT REEL: 037301 FRAME: 0152

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Signature:	Cy / Widney Date: SLC 8, 2015
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Name of Inventor:	Hsin Wang
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Name of Inventor:	Hsin Wang 13 - 9 - 2015
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PATENT REEL: 037301 FRAME: 0156

RECORDED: 12/16/2015