PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT WILSON ASHCRAFT	02/02/2017
MASOUD ARYANPOUR	02/02/2017
LINCOLN JAMES MIARA	02/02/2017

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD
Street Address:	129, SAMSUNG-RO
Internal Address:	YEONGTONG-GU, SUWON-SI
City:	GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15428018

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	AML16-LI01
NAME OF SUBMITTER:	JACOB L. LACOMBE
SIGNATURE:	/Jacob L. Lacombe/
DATE SIGNED:	02/08/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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PATENT REEL: 041207 FRAME: 0524

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PATENT REEL: 041207 FRAME: 0525

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of	HETEROGENEOUS ELECTRICAL ENERGY STORAGE SYSTEM
Invention	
A - 41 - 1 -	
As the undersi	gned inventor, I hereby declare that:
This combined	declaration and \(\times \text{The attached application. or}\)
assignment is	A 1
	filed on
The above-ide	ntified application was made or authorized to be made by me.
I believe that I	am the original inventor or an original joint inventor of a claimed invention in the application.
I have reviewe	d and understand the contents of the application including the claims, for which this combined declaration and being submitted.
assignment is t	tenig submitted.
I am aware of t	the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR
1.56.	of the same of the
WHEREAS, S	amsung Electronics Co., Ltd., a Korean corporation, having a place of business at 129, Samsung-ro, Yeongtong-gu
Suwon-si, Gye	onggi-do, 16677, Korea (hereinafter referred to as "ASSIGNEE"), desires to acquire the entire right, title and
interest in said	invention and to any patent that may be granted thereon in the United States and foreign countries;
NOW THERE	PODE for and administrational design of the second and administration of the second administration of the second and administration of the second and administration of the second and administration of the second administration of the second and administration of the second a
inventors here	FORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, We, the below named by sell, assign and transfer to said ASSIGNEE, its successors and assigns, the entire right, title and interest in the
above-identifie	d application and the invention disclosed therein in all countries, including all divisional applications, continuation
applications, ar	and corresponding priority applications including those to which priority is claimed under the International
Convention of	Paris including under 35 U.S.C. 119, substitutions, and renewals thereof, and to all patents that may be granted
thereon, and all	reissues thereof.
We hereby auth	norize and request the Patent Office Officials in the United States and all foreign countries to issue patents, when
granted, to said	ASSIGNEE, its successors and assigns. Further, We agree that said ASSIGNEE, its successors and assigns, may
apply for paten	ts for the invention in foreign countries without further authorization from us. Also, We agree to execute all
papers and gen	erally to do everything possible to aid said ASSIGNEE, its successors and assigns, in obtaining and enforcing invention in all countries.
patents for the	mivention in an countries.
I hereby acknow	wledge that any willful false statement made in this combined declaration and assignment is punishable under 18
U.S.C. 1001 by	fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF FIRST INVENTOR (e.g., full first name, middle initial, last name)

Inventor: Robert Wilson Ashcraft Date: 02 Feb 2017

Signature: Date: 02 Feb 2017

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LEGAL NAME OF SECOND INVENTOR (e.g., full first name, middle initial, last name)		
Inventor:Masoud_Aryanpour	Date: Feb 102/2017	
Signature: Signature:		

LEGAL NAME OF THIRD INVENTOR (e.g., full first name, mi	ddle initial, last name)	
Inventor: Lincoln James Miara	Date: 2/2/2017	e ^{rr}
Signature:		

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RECORDED: 02/08/2017