

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YOON-JUNG BAE	09/08/2021
JI-YEON KIM	08/27/2021
KYUNG-HWA WOO	08/27/2021
RECEIVING PARTY DATA	
Name:	LG ENERGY SOLUTION, LTD.
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City:	SEOUL
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Postal Code:	07335
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18404820
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DATE SIGNED:	01/04/2024
Total Attachments: 2	
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**DECLARATION AND ASSIGNMENT FOR
UTILITY OR DESIGN APPLICATIONS**

Attorney Docket Number:

Title of Invention

**APPARATUS AND METHOD FOR CONTROLLING OPERATION OF SECONDARY BATTERY USING
RELATIVE DETERIORATION DEGREE OF ELECTRODE**

As the below named inventor(s) (hereinafter designated as the undersigned), I/We hereby declare that:

This declaration
is directed to:☐ The attached application, or☒ United States application or PCT international application number PCT/KR2020/014620filed on October 23, 2020

The above-identified application was made or authorized to be made by me/us.

I/We believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I/We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.WHEREAS, the undersigned as a sole inventor (if only one name is listed below) or as a joint inventor (if plural names are
listed below) has invented certain new and useful improvements in the application identified above.AND, WHEREAS LG Energy Solution, LTD., (hereinafter referred to as assignee), a corporation of Korea whose mailing
address is Tower 1, 108, Yeouil-daero, Yeongdeungpo-gu, Seoul 07335 Republic of Korea is desirous of acquiring the entire
right, title and interest in the same.

NOW, THEREFORE, in consideration of the sum of one dollar, the receipt whereof is acknowledged, and other good and
valuable consideration, the undersigned hereby sell(s), assign(s) and set(s) over to said assignee my/our entire right, title
and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent
application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted
therefor in the United States of America and all other countries, for said invention, including without limitation all applications
and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and
including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use
and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and
the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements
or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me/us and
my/our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and
deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all
assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known
to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal
proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful
oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent
protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said
assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when
known.

FULL NAME OF INVENTOR(S)

Inventor one: BAE, Yoon-JungDate: Sept. 8, 2021Signature: *BAE*☒ Additional inventors or a legal representative are being named on 1 additional form(s) attached hereto.

PLEASE SEE THE WARNINGS ON THE LAST PAGE OF THIS FORM.



DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet
Inventor two: <u>KIM, Ji-Yeon</u> Signature: <u>김지연</u>	Date: <u>August, 27, 2021</u>
Inventor three: <u>WOO, Kyung-Hwa</u> Signature: <u>우경화</u>	Date: <u>August, 29, 2021</u>
Inventor four: _____ Signature: _____	Date: _____
Inventor five: _____ Signature: _____	Date: _____
Inventor six: _____ Signature: _____	Date: _____
Inventor seven: _____ Signature: _____	Date: _____
Inventor eight: _____ Signature: _____	Date: _____
Inventor nine: _____ Signature: _____	Date: _____
Inventor ten: _____ Signature: _____	Date: _____
<p align="center">WARNING:</p> <p>According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including the claims and is aware of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56."</p> <p>Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.</p>	

