

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYUNCHUL LEE	08/27/2018
JUNHWAN KU	09/14/2018
HYEOKJO GWON	08/31/2018
NAGJONG KIM	08/27/2018
CHILHEE CHUNG	09/17/2018
SANGMIN JI	08/31/2018
JINKYU KANG	08/27/2018
CHANGDUK KANG	08/31/2018
RYOUNGHEE KIM	09/14/2018
MINSANG KIM	09/14/2018
EUNCHEOL DO	09/14/2018
KITAE PARK	08/27/2018
SUNGHAENG LEE	08/27/2018

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
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State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16196729

CORRESPONDENCE DATA

Fax Number: (312)616-5700

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PATENT

Address Line 2: 180 NORTH STETSON AVENUE
Address Line 4: CHICAGO, ILLINOIS 60601-6731

ATTORNEY DOCKET NUMBER:	739229
NAME OF SUBMITTER:	JOHN L. GASE
SIGNATURE:	/John L. Gase/
DATE SIGNED:	11/20/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: POROUS FILM, SEPARATOR INCLUDING THE SAME, ELECTROCHEMICAL DEVICE INCLUDING SEPARATOR, AND METHOD OF PREPARING POROUS FILM

DECLARATION

As an inventor named below, I hereby declare for:

the attached patent application, or
 United States patent application or PCT international patent application number _____ filed
_____ that:

- (i) the patent application identified above was made or authorized to be made by me;
- (ii) I believe that I am the original inventor or an original joint inventor of an invention claimed in the patent application identified above; and
- (iii) I 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 fine and imprisonment.

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are acknowledged, I sell, assign, and transfer to

SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, KR

(hereinafter "ASSIGNEE") and its successors, assigns, and legal representatives, my entire right, title and interest for the United States of America, as defined in 35 U.S.C. 100, in the invention(s) disclosed in the patent application identified above, and any and all extensions, divisions, reissues, reexaminations, continuations, or continuations-in-part patent applications of the patent application identified above;

I authorize and request the United States Director of Patents and Trademarks to issue any and all United States Letters Patent which may be granted for the invention(s) disclosed in the patent application identified above, and any and all extensions, divisions, reissues, reexaminations, continuations, or continuations-in-part patent applications of the patent application identified above, and the right to all benefits under the Patent Corporation Treaty, and the international Convention for the Protection of Industrial Property to the ASSIGNEE, for its interest as ASSIGNEE; and

I agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, continuation, divisional, continuation-in-part, reissued, or reexamined Letters Patent of the United States, upon request of the ASSIGNEE, and without further remuneration, in and to any improvements, and applications for patent based on the patent application identified above, growing out of or related to the invention(s) disclosed in the patent application identified above, and to execute any papers of the ASSIGNEE, deemed essential to ASSIGNEE'S full protection and title in and to the invention(s) transferred by this Assignment.

It is agreed the terms of this assignment shall bind, and inure to the benefit of, the legal representatives, successors, and assigns of all parties hereto.

I authorize ASSIGNEE to insert in this assignment the number and filing date of the application if the number and filing date of the application are not recited herein at the time of execution of this assignment.

Hyun Chul Lee
Hyunchul Lee

Date 2018. 8. 27

Junhwan Ku
Junhwan Ku

Date 2018. 9. 14

Hyeokjo Gwon
Hyeokjo Gwon

Date 2018. 8. 31

Nag-Jong Kim
Nagjong Kim

Date 2018. 8. 27

Chilhee Chang
Chilhee Chang

Date 2018. 9. 17

Sang Min Ji
Sangmin Ji

Date 2018 8 31

Jinkyu Kang
Jinkyu Kang

Date 2018. 8. 27

Chang Duk Kang
Changduk Kang

Date 31. Aug. 2018

Ryounghee Kim
Ryounghee Kim

Date 2018.9.14

Minsang Kim
Minsang Kim

Date 2018.9.14

Euncheol Do
Euncheol Do

Date 2018.9.14

Kitae Park
Kitae Park

Date 21. Aug. 2018

Sunghaeng Lee
Sunghaeng Lee

Date 27, Aug. 2018