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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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JAE-YUN AHN	11/05/2019
JAE-HWAN SIM	11/05/2019
JAE-BONG LIM	11/05/2019
MYUNG-YEOL KIM	11/05/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16517950

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DATE SIGNED:	11/07/2019	

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Total Attachments: 1 source=8F77186#page1.tif

PATENT REEL: 050946 FRAME: 0585 FORM 110 (R 5/97)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: METHOD FOR FORMING PATTERN USING ANTIREFLECTIVE COATING COMPOSITION INCLUDING PHOTOACID GENERATOR

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

Rohm and Haas Electronic Materials Korea Ltd. 56, 3-Gondan 1-ro, Seobuk-gu Seobuk-gu, Cheonan-si Chungcheongnam-do Cheonan Republic of Korea 31093

an entity organized and existing under the laws of the state of Korea, Republic of (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
16/517,950	July 22, 2019	US

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Greengel ~ 9/eongg7-do Republic of day of . Effective as of July 22, 2019 Effective as of July 22, 2019 Signature: Signature: Full Name: Jung-June Lee Full Name: Jae-Yun Ahn Mailing Address: 56, 3-Gondan 1-ro, Seobuk-gu Mailing Address: 56, 3-Gondan 1-ro, Seobuk-gu Seobuk-gu, Cheonan-si Seobuk-gu, Cheonan-si Chungcheongnam-do Chungcheongnam-do Cheonan Cheonan Republic of Korea 31093 Republic of Korea 31093 day of day of 3-14 Effective as of July 22, 2019 Effective as of July 22, 2019 Signature: Full Name: Jae-Hwan Sim Full Name: Jae-Bong Lim Mailing Address: 56, 3-Gondan 1-ro, Seobuk-gu Mailing Address: 56, 3-Gondan 1-ro, Seobuk-gu Seobuk-gu, Cheonan-si Seobuk-gu, Cheonan-si Chungcheongnam-do Chungcheongnam-do Cheonan Cheonan Republic of Korea 31093 Republic of Korea 31093 (عصحور) this _____ day of Effective as of July 42, 2019 day of Signature: Full Name: Myung-Yeol Kim Mailing Address: 56, 3-Gondan 1-ro, Seobuk-gu Seobuk-gu, Cheonan-si Chungcheongnam-do Cheonan Republic of Korea 31093

> PATENT REEL: 050946 FRAME: 0586