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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
POSTECH ACADEMY-INDUSTRY FOUNDATION	07/03/2019

RECEIVING PARTY DATA

Name:	POSTECH ACADEMY-INDUSTRY FOUNDATION	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17163329

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DATE SIGNED:	02/04/2021

Total Attachments: 3

PATENT REEL: 055150 FRAME: 0616

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PATENT REEL: 055150 FRAME: 0617 Attorney Docket Nos. 8947-019, 8947-020, 8947-021, 8947-022, 8947-023, 8947-024, 8947-025 and 8947-026

ASSIGNMENT

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U.S. Patents/Applications:

(1) U.S. Patent No.: 10,193,088 Issue Date: January 29, 2019 U.S. Application No.: 15/524,421

Filing Date: July 26, 2017

Title: PEROVSKITE NANOCRYSTALLINE PARTICLES AND

OPTOELECTRONIC DEVICE USING SAME

(8947-019)

(2) U.S. Patent No.: 10,263,207 Issue Date: April 16, 2019

U.S. Application No.: 15/524,754

Filing Date: July 3, 2017

Title: PEROVSKITE LIGHT EMITTING DEVICE CONTAINING EXCITON

BUFFER LAYER AND METHOD FOR MANUFACTURING SAME

(8947-020)

(3) U.S. Application No.: 15/524,735

Filing Date: July 5, 2017

Title: PEROVSKITE NANOCRYSTAL PARTICLE LIGHT EMITTING BODY WITH CORE-SHELL STRUCTURE, METHOD FOR FABRICATING SAME, AND

LIGHT EMITTING ELEMENT USING SAME

(8947-021)

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PATENT REEL: 055150 FRAME: 0618 Attorney Docket Nos. 8947-019, 8947-020, 8947-021, 8947-022, 8947-023, 8947-024, 8947-025 and 8947-026

(4) U.S. Patent No.: 10,047,284 Issue Date: August 14, 2018 U.S. Application No.: 15/524,747 Filing Date: July 5, 2017

Title: PEROVSKITE NANOCRYSTAL PARTICLE LIGHT-EMITTER WHOSE CONTENT IS CHANGED, METHOD OF PRODUCING THE SAME, AND LIGHT

EMITTING ELEMENT USING THE SAME

(8947-022)

(5) U.S. Patent No.: 10,109,805 Issue Date: October 23, 2018 U.S. Application No.: 15/524,429 Filing Date: July 26, 2017

Title: ORGANIC-INORGANIC HYBRID PEROVSKITE NANOCRYSTAL PARTICLE LIGHT EMITTING BODY HAVING TWO-DIMENSIONAL STRUCTURE, METHOD FOR PRODUCING SAME, AND LIGHT EMITTING DEVICE USING SAME

(8947-023)

(6) U.S. Application No.: 15/524,476
Filing Date: July 26, 2017
Title: METHOD FOR MANUFACTURING PEROVSKITE NANOCRYSTAL PARTICLE LIGHT EMITTING BODY WHERE ORGANIC LIGAND IS

PARTICLE LIGHT EMITTING BODY WHERE ORGANIC LIGAND IS SUBSTITUTED, NANOCRYSTAL PARTICLE LIGHT EMITTING BODY MANUFACTURED THEREBY, AND LIGHT EMITTING DEVICE USING SAME

(8947-024)

U.S. Patent No.: 10,276,807
 Issue Date: April 30, 2019
 U.S. Application No.: 15/524,489
 Filing Date: July 26, 2017

Title: LIGHT-EMITTING LAYER FOR PEROVSKITE LIGHT-EMITTING DEVICE, METHOD FOR MANUFACTURING SAME, AND PEROVSKITE

LIGHT-EMITTING DEVICE USING SAME

(8947-025)

(8) U.S. Application No.: 15/524,761

Filing Date: July 5, 2017

Title: WAVELENGTH CONVERTING PARTICLE, METHOD FOR MANUFACTURING WAVELENGTH CONVERTING PARTICLE, AND LIGHT EMITTING DIODE CONTAINING WAVELENGTH CONVERTING PARTICLE (8947-026)

For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the full and exclusive right, title and interest in and to the above-identified inventions, patent applications and patent rights throughout the world, including foreign patent priority rights; said invention, application

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Attorney Docket Nos. 8947-019, 8947-020, 8947-021, 8947-022, 8947-023, 8947-024, 8947-025 and 8947-026

and letters patent in this or any foreign country, and all divisions, continuations, reissues, nonprovisionals and extensions thereof, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and covenant that Assignor has full right so to do, and agree that Assignor will communicate to Assignee, or its successors and assigns, any facts known to Assignor respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, non-provisional and reissue applications, make all rightful oaths, and do everything possible to aid Assignee, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

In the event that the patent application filing date or serial number is not known at the time this document is executed, Assignor hereby grants permission to the attorneys of record in the patent application to fill in the filing date and/or serial number above, and to record this assignment after such information is added.

Executed at Foliang, KR, this 3th day of July 2019

Name: Hyoung Leop Kim

Title: Executive Director

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ASSIGNMENT Page 3 of 3

RECORDED: 02/04/2021

PATENT REEL: 055150 FRAME: 0620