

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YOUNG-HWA KIM	06/08/2022
RICHARD DALE OLMSTED	06/08/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HIGHER DIMENSION MATERIALS, INC.
<b>Street Address:</b>	570 HALE AVE N.
<b>City:</b>	ST. PAUL
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55128
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17870661
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	50624-0003002
<b>NAME OF SUBMITTER:</b>	JOHN D. GUSTAV-WRATHALL
<b>SIGNATURE:</b>	/john d. gustav-wrathall/
<b>DATE SIGNED:</b>	01/18/2023
<b>Total Attachments: 3</b>	
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, YOUNG-HWA KIM, and RICHARD DALE OLMSTED, each individually assign to HIGHER DIMENSION MATERIALS, INC., a corporation formed under the laws of Minnesota and having a principal place of business at 570 Hale Ave N, St. Paul, MN 55128., and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the invention(s) (the "Subject Matter") described in the patent applications that names us as inventors, titled "FLYWHEEL AND MOLTEN SALT HYBRID ENERGY STORAGE SYSTEMS," and was filed in the United States Patent and Trademark Office on November 18, 2021, as application 17/530,219 and titled "FLYWHEEL AND MOLTEN SALT HYBRID ENERGY STORAGE SYSTEMS ", and was filed in the United States Patent and Trademark Office on November 18, 2021, as application PCT/US2021/059871 (the "Applications").

This Assignment assigns, in addition to the Subject Matter, (a) the Applications and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region and under every treaty or convention, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.


To the extent any portion of the rights assigned by this Assignment has previously been assigned to the Assignee, this Assignment is a confirmation of the previous assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or, at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter; will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents; and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

We were under obligation to make this and/or made this Assignment on or before November 18, 2021.

  
\_\_\_\_\_  
Young-Hwa Kim

Date: June 8, 2022

**Witnessed by:**

Signature:   
\_\_\_\_\_

Date: JUNE 8, 2022

Print Name: ELIAS P. BURRELL  
\_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Richard Dale Olmsted  
Richard Dale Olmsted

Date: June 8, 2022

**Witnessed by:**

Signature: Linda A Burrell

Date: June 8, 2022

Print Name: Linda A Burrell

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: HIGHER DIMENSION MATERIALS, INC.

Signature: Young Hua Kim

Date: June 8, 2022

Name: Young Hua Kim

Title: CEO

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