506047637 05/06/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6094351

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| HYUNG SEOP SHIN | 04/23/2020 |
| KYUNG OH BAE | 04/23/2020 |

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16789859 |

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|-------------------------|-----------------|
| NAME OF SUBMITTER: | HEUNGSOO CHOI |
| SIGNATURE: | /Heungsoo Choi/ |
| DATE SIGNED: | 05/06/2020 |

Total Attachments: 2

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PATENT 506047637 REEL: 052589 FRAME: 0339

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: NAM011.001C1

Title: SMALL-PUNCH TEST APPARATUS FOR QUANTITATIVELY EVALUATING MATERIAL EMBRITTLEMENT BEHAVIOR UNDER VARIOUS GASEOUS HYDROGEN ENVIRONMENTS

Inventor(s): Hyung Seop SHIN; Kyung Oh BAE

Declaration

As the below-named inventor, I hereby declare that:

1. This Declaration is directed to:

The attached application, where "attached" means filed concurrently with, or U.S. Patent Application No. 16/789,859, filed on February 13, 2020

- 2. The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- 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.

Assignment from Inventor

WHEREAS, the below-named inventor (hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries disclosed in the above-identified application (hereinafter the "Application").

AND WHEREAS, ANDONG NATIONAL UNIVERSITY INDUSTRY-ACADEMIC COOPERATION FOUNDATION, with its principal place of business at 1375, Gyeongdong-ro, Andong-si Gyeongsangbuk-do, 36729, Republic of Korea (hereinafter the "ASSIGNEE"), desires to acquire the entire right, little, and interest in and to the Application.

NOW, THEREFORE, for good and valuable consideration of which receipt is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, little, and interest in the Application and related application(s) filed or issued upon the Application (collectively "Patent Properties"), where "Patent Properties" include, but are not limited to:

- the Application;
- all provisional application(s) to which the Application claims priority;
- all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the Application, including, all divisional applications, continuation applications, and continuationsin-part applications, and reissue applications; and
- all Letters Patent of the United States which may be granted on the Application and the
 aforementioned nonprovisional applications, and all reissues and extensions thereof.

ASSIGNOR hereby acknowledges the ASSIGNEE as the Applicant for all aforementioned Patent Properties, and authorizes and requests the Commissioner of Patents of the United States to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of this assignment to ASSIGNEE, or may

PATENT REEL: 052589 FRAME: 0340

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COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: NAM011.001C1 Page 2 of 2

Tille: SMALL-PUNCH TEST APPARATUS FOR QUANTITATIVELY EVALUATING MATERIAL EMBRITTLEMENT BEHAVIOR UNDER VARIOUS GASEOUS HYDROGEN ENVIRONMENTS

Inventor(s): Hyung Seop SHIN; Kyung Oh BAE

accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of all Patent Properties;

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Patent Properties, and testify in any legal proceeding, assist in the preparation of any applications relating to the Patent Properties, sign/execute all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Patent Properties and generally do everything possible to aid the ASSIGNEE, its successore, legal representatives and assigns, to obtain and enforce proper patent protection for the Patent Properties.

Authorization to Add Application Information

In case this document is signed without the filing date and/or the application number in the Declaration section, I suthorize the registrants of Knobbe, Martens, Olson & Bear, LLP, Customer No. 20,995 to add the filing date and application number in the blanks in the Declaration section before filing this document with the United States Patent and Trademark Office.

Legal Name of Inventor 1: Hyung Seop SHIN

Signature: 14403 Sep Sut Date: 1901 23, 2020 sine of inventor 2: Kyung Oh BAE
Signature: 15412 Of BAE Date: 141/23, 2020

Legal Name of Inventor 2: Kyung Oh BAE

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RECORDED: 05/06/2020

PATENT REEL: 052589 FRAME: 0341