

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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| QIXIANG FAN | 04/01/2021 |
| SHISEN XU | 04/01/2021 |
| SHIWANG GAO | 04/01/2021 |
| SHAOMIN WANG | 04/01/2021 |
| HE ZHAO | 04/01/2021 |
| MINHUA JIANG | 04/01/2021 |
| PING XIAO | 04/01/2021 |
| BIN HUANG | 04/01/2021 |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17222994 |
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| ATTORNEY DOCKET NUMBER: | DF210482US |
| NAME OF SUBMITTER: | MICHAEL P. WIERSCH |
| SIGNATURE: | /Michael P. Wiersch #55996/ |
| DATE SIGNED: | 06/11/2021 |
| Total Attachments: 4 source=DF210482US-ASSIGNMENT#page1.tif source=DF210482US-ASSIGNMENT#page2.tif source=DF210482US-ASSIGNMENT#page3.tif source=DF210482US-ASSIGNMENT#page4.tif | |

ASSIGNMENT

WHEREAS, we, Shiqing WANG of China, Beijing City, Qixiang FAN of China, Beijing City, Shisen XU of China, Beijing City, Shiwan GAO of China, Beijing City, Shaomin WANG of China, Beijing City, He ZHAO of China, Beijing City, Minhua JIANG of China, Beijing City, Ping XIAO of China, Beijing City, Bin HUANG of China, Beijing City, Hongwei NIU of China, Beijing City, Jinyi WANG of China, Beijing City, Lianbo LIU of China, Beijing City, ("Assignor"), are the inventors of an invention entitled "FLUE GAS LOW-TEMPERATURE ADSORPTION DENITRIFICATION METHOD" that is the subject matter of: (check all that apply)

- ☐ a U.S. application for Letters Patent which claims the priority of the Chinese Patent Application No. filed on ____.
- ☒ an application made under the Patent Cooperation Treaty which is identifiable at WIPO by Application No. PCT/CN2020/076851, filed on February 26, 2020.
- ☐ an application for Letters Patent which is identifiable in the Patent Office of ____ the U.S. by Application No. _____ filed on _____.

WHEREAS, HUANENG CLEAN ENERGY RESEARCH INSTITUTE, a corporation organized and existing under the laws of China ("Assignee"), and having offices at Lab Block A, Huaneng Base, Beijing Future Science Park, Changping District, Beijing, China is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection

- ☒ in the United States
- ☐ in all other countries or jurisdictions;

"NOW THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged,

- a) we agree to transfer, and
b) we do hereby transfer,

to Assignee, its successors and assigns, effective as of October 29, 2019 *nunc pro tunc*, our entire right, title and interest in the above named countries and jurisdictions in and to the following including the right to sue for past infringement: the invention, the above-identified applications, all applications from which any of the above-identified applications claim priority, corresponding U.S. and non-U.S. applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention, and I/we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee."

We authorize the U.S. Attorneys handling this matter in the U.S. and the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in the above named countries and jurisdictions and appoint Assignee the common representative in the above-identified international application and any international application for the invention.

We represent to the Assignee, its successors and assigns, that we shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries and jurisdictions, including without limitation providing testimony in any related interference, litigation or proceeding. To the extent that we, our executors or administrators are unable or unavailable to execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as Assignee, its successors and assigns may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries and jurisdictions, we, our executors or administrators hereby authorize Assignee, its successors and assigns to act on our behalf.

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If any provision(s) of this Assignment are held unenforceable or in conflict with the law of any jurisdiction, the validity of the remaining provisions will not be affected by such holding and the part held unenforceable in or in conflict with the law of one jurisdiction will remain in effect for other jurisdictions until held unenforceable or in conflict with the law of that jurisdiction.

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