505205001 11/26/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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EPAS ID: PAT5251769

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| KOUJI KAWANO | 10/11/2018 |
| AKIO ISHIKAWA | 10/11/2018 |

RECEIVING PARTY DATA

| Name: | MITSUBISHI CHEMICAL ENGINEERING CORPORATION | |
|-----------------|---|--|
| Street Address: | 1-2-2, NIHONBASHI-HONGOKUCHO | |
| City: | TOKYO | |
| State/Country: | JAPAN | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16304645 |

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| ATTORNEY DOCKET NUMBER: | H-5190 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | PAUL A. FATTIBENE |
| SIGNATURE: | /paf/ |
| DATE SIGNED: | 11/26/2018 |

Total Attachments: 1

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PATENT 505205001 REEL: 047584 FRAME: 0819

Attorney Docket

H-5190

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSIGNMENT

The below named inventor(s), in consideration of the sum of one dollar (\$1.00), and other good and valuable consideration paid to the undersigned, the receipt and sufficiency of which is hereby acknowledged, the undersigned agree(s) to and hereby does assign, transfer and set over to

Assignee

| Name | MITSUBISHI CHEMICAL ENGINEERING CORPORATION |
|---------|---|
| Address | 1-2-2, Nihonbashi-Hongokucho |
| | Chuo-ku |
| | Tokyo, JAPAN |

a legal entity of the country or state as indicated

Citizen, Corporation, Partnership, Sole Proprietorship

| Legal Entity | Country or State |
|--------------|------------------|
| CORPORATION | JAPAN |

the entire right, title, and interest for the United States, its territories, dependencies and possessions, in the invention known as

Title

PRODUCTION PROCESS ANALYSIS METHOD

for which the undersigned has (have) filed an International Application under the PCT and initiated an application for patent in the United States of America on the dates indicated and given the serial number or application number indicated below, unless filed concurrently herewith.

Insert filed filing date and Serial Number, unless filed concurrently.

| Date | US Serial Number (filed herewith) | |
|---|--------------------------------------|--|
| International PCT Application Filing Date | International PCT Application Number | |
| 06 March 2017 | PCT/JP2017/008682 | |

The undersigned agree(s) to execute all papers and perform any act, which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby covenants to have full right to convey the entire interest herein assigned, and has not, and will not execute any agreement in conflict herewith.

The undersigned authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States resulting from this application or any continuing or divisional applications thereof to the Assignee.

The undersigned grants the law firm of Fattibene and Fattibene, 2480 Post Road, Southport, Connecticut, 06890, the power to insert any further identification, which may be necessary to facilitate the recordation of this document in the United States Patent and Trademark Office.

| First Joint inventor Kouji KAWANO | signature Koft Kawama | Date 11 October 2018 |
|-------------------------------------|-----------------------------|------------------------|
| Second Joint Inventor Akio ISHIKAWA | Signature Olkio Dehikuwa | Date 110 Hober 2018 |

Assignment

Page 1 of 1

H-5190

PATENT REEL: 047584 FRAME: 0820

RECORDED: 11/26/2018