#### 507482844 09/09/2022

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7529735

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HIROKI FUKUTA	06/13/2022
KATSUFUMI MOCHIZUKI	06/13/2022
FUMIKO FUJIE	06/13/2022
TAKAHIRO MUKUDA	06/13/2022
HIROSHI NIINO	06/13/2022
EIKO OKAMOTO	06/13/2022
KAZUNARI MATSUMURA	06/13/2022
HIROKO SHINADA	06/13/2022
HIROKI HAMAMOTO	06/13/2022

#### **RECEIVING PARTY DATA**

Name:	MITSUBISHI CHEMICAL CORPORATION
Street Address:	1-1, MARUNOUCHI 1-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-8251

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17941154

#### **CORRESPONDENCE DATA**

**Fax Number:** (202)739-3001

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.

**Phone:** 2027393000

**Email:** patents@morganlewis.com, anne.sayles@morganlewis.com

Correspondent Name: JANICE H. LOGAN

Address Line 1: 1111 PENNSYLVANIA AVE NW Address Line 4: WASHINGTON, D.C. 20004

ATTORNEY DOCKET NUMBER:	045093-5032
NAME OF SUBMITTER:	TOYOMI OHARA

PATENT 507482844 REEL: 061043 FRAME: 0091

SIGNATURE:	/Toyomi Ohara/
ATE SIGNED:	09/09/2022
	This document serves as an Oath/Declaration (37 CFR 1.63).
al Attachments: 14	
ce=045093-5032-Decla	rationAssignment#page1.tif
ce=045093-5032-Decla	rationAssignment#page2.tif
ırce=045093-5032-Decla	rationAssignment#page3.tif
rce=045093-5032-Decla	rationAssignment#page4.tif
ce=045093-5032-Decla	rationAssignment#page5.tif
rce=045093-5032-Decla	rationAssignment#page6.tif
rce=045093-5032-Decla	rationAssignment#page7.tif
ırce=045093-5032-Decla	rationAssignment#page8.tif
ırce=045093-5032-Decla	rationAssignment#page9.tif
ırce=045093-5032-Decla	rationAssignment#page10.tif

source=045093-5032-DeclarationAssignment#page11.tif source=045093-5032-DeclarationAssignment#page12.tif source=045093-5032-DeclarationAssignment#page13.tif source=045093-5032-DeclarationAssignment#page14.tif

(hereinafter designated as the Assignee) my entire right, title and interest for the United States as defined in 35 USC 100, for any invention set forth in the above-identified application.

I agree to execute all papers necessary in connection with this application for patent in the United States Patent & Trademark Office for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

# COMBINED DECLARATION & ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION I hereby authorize and request the USPTO to issue any and all Letters Patents of the United States resulting from the application or any continuation, divisional or reissue applications thereof to the Assignee, as Assignee of my entire interest, and covenant that I have not executed, and will not execute, any agreement in conflict herewith. First Inventor (Legal Name): Hiroki FUKUTA June 13, 2022 signature: Hîrokî Fukuta Second Inventor (Legal Name): Katsufumi MOCHIZUKI Signature: Date: Third Inventor (Legal Name): Fumiko FUJIE Date: Fourth Inventor (Legal Name): Takahiro MUKUDA Signature: Fifth Inventor (Legal Name): Hiroshi NIINO Signature: Date: Sixth Inventor (Legal Name): Eiko OKAMOTO Signature: Signature: Date: June 13, 2022 Seventh Inventor (Legal Name): Kazunari MATSUMURA Signature: Eighth Inventor (Legal Name): Hiroko SHINADA

Morgan, Lewis & Bockius LLP

Ninth Inventor (Legal Name): Hiroki HAMAMOTO

Signature:

Date:

Date:

(hereinafter designated as the Assignee) my entire right, title and interest for the United States as defined in 35 USC 100, for any invention set forth in the above-identified application.

I agree to execute all papers necessary in connection with this application for patent in the United States Patent & Trademark Office for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

# COMBINED DECLARATION & ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION I hereby authorize and request the USPTO to issue any and all Letters Patents of the United States resulting from the application or any continuation, divisional or reissue applications thereof to the Assignee, as Assignee of my entire interest, and covenant that I have not executed, and will not execute, any agreement in conflict herewith. First Inventor (Legal Name): Hiroki FUKUTA Signature: Date: Second Inventor (Legal Name): Katsufumi MOCHIZUKI Date: June 13, 2022 Third Inventor (Legal Name): Fumiko FUJIE Signature: Date: Fourth Inventor (Legal Name): Takahiro MUKUDA Signature: Date: Fifth Inventor (Legal Name): Hiroshi NIINO Signature: Date: Sixth Inventor (Legal Name): Eiko OKAMOTO Signature: \_\_\_\_\_ Date: Seventh Inventor (Legal Name): Kazunari MATSUMURA Signature: Eighth Inventor (Legal Name): Hiroko SHINADA Signature: Date: Ninth Inventor (Legal Name): Hiroki HAMAMOTO Signature: Date:

35 USC 100, for any invention set forth in the above-identified application.

I agree to execute all papers necessary in connection with this application for patent in the United States Patent & Trademark Office for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

#### COMBINED DECLARATION & ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION

I hereby authorize and request the USPTO to issue any and all Letters Patents of the United States resulting from the application or any continuation, divisional or reissue applications thereof to the Assignee, as Assignee of my entire interest, and covenant that I have not executed, and will not execute, any agreement in conflict herewith.

	, , 3
First Inventor (Legal Name): <u>Hiroki FUKUTA</u>	
Signature:	
Second Inventor (Legal Name): <u>Katsufumi MOCHIZUKI</u>	
Signature:	Date:
Third Inventor (Legal Name): <u>Fumiko FUJIE</u>	
Signature: Fumiko Fujie	<sub>Date:</sub> June 13, 2022
Fourth Inventor (Legal Name): <u>Takahiro MUKUDA</u>	
Signature:	
Fifth Inventor (Legal Name): <u>Hiroshi NIINO</u>	
Signature:	Date:
Sixth Inventor (Legal Name): <u>Eiko OKAMOTO</u>	
Signature:	Date:
Seventh Inventor (Legal Name): <u>Kazunari MATSUMURA</u>	
Signature:	Date:
Eighth Inventor (Legal Name): <u>Hiroko SHINADA</u>	
Signature:	Date:
Ninth Inventor (Legal Name): <u>Hiroki HAMAMOTO</u>	
Signature:	Date:

Morgan, Lewis & Bockius LLP

(hereinafter designated as the Assignee) my entire right, title and interest for the United States as defined in 35 USC 100, for any invention set forth in the above-identified application.

I agree to execute all papers necessary in connection with this application for patent in the United States Patent & Trademark Office for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

# COMBINED DECLARATION & ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION I hereby authorize and request the USPTO to issue any and all Letters Patents of the United States resulting from the application or any continuation, divisional or reissue applications thereof to the Assignee, as Assignee of my entire interest, and covenant that I have not executed, and will not execute, any agreement in conflict herewith. First Inventor (Legal Name): Hiroki FUKUTA Second Inventor (Legal Name): Katsufumi MOCHIZUKI Signature: \_\_\_\_\_\_ Date: Third Inventor (Legal Name): Fumiko FUJIE Signature: Fourth inventor (Legal Name): Takahiro MUKUDA Date: June 13, 2022 Fifth Inventor (Legal Name): Hiroshi NIINO Signature: \_\_\_\_\_\_ Date: Sixth Inventor (Legal Name): <u>Eiko OKAMOTO</u> Signature: Seventh Inventor (Legal Name): Kazunari MATSUMURA Signature: Eighth Inventor (Legal Name): Hiroko SHINADA Signature: Date: Ninth inventor (Legal Name): Hiroki HAMAMOTO Signature: Date:

Morgan, Lewis & Bockius LLP

35 USC 100, for any invention set forth in the above-identified application.

I agree to execute all papers necessary in connection with this application for patent in the United States Patent & Trademark Office for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

#### COMBINED DECLARATION & ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION

I hereby authorize and request the USPTO to issue any and all Letters Patents of the United States resulting from the application or any continuation, divisional or reissue applications thereof to the Assignee, as Assignee of my entire interest, and covenant that I have not executed, and will not execute, any agreement in conflict herewith.

First Inventor (Legal Name): <u>Hiroki FUKUTA</u>	
Signature:	Date:
Second Inventor (Legal Name): <u>Katsufumi MOCHIZUKI</u>	
Signature:	Date:
Third Inventor (Legal Name): <u>Fumiko FUJIE</u>	
Signature:	Date:
Fourth Inventor (Legal Name): <u>Takahiro MUKUDA</u>	
Signature:	Date:
Fifth Inventor (Legal Name): <u>Hiroshi NIINO</u> Signature: <u> </u>	<sub>Date:</sub> June 13, 2022
Sixth Inventor (Legal Name): <u>Eiko OKAMOTO</u>	
Signature:	Date:
Seventh Inventor (Legal Name): <u>Kazunari MATSUMURA</u>	
Signature:	Date:
Eighth Inventor (Legal Name): <u>Hiroko SHINADA</u>	
Signature:	Date:
Ninth Inventor (Legal Name): <u>Hiroki HAMAMOTO</u>	
Signature:	Date:

35 USC 100, for any invention set forth in the above-identified application.

I agree to execute all papers necessary in connection with this application for patent in the United States Patent & Trademark Office for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

#### COMBINED DECLARATION & ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION

I hereby authorize and request the USPTO to issue any and all Letters Patents of the United States resulting from the application or any continuation, divisional or reissue applications thereof to the Assignee, as Assignee of my entire interest, and covenant that I have not executed, and will not execute, any agreement in conflict herewith.

First Inventor (Legal Name): <u>Hiroki FUKUTA</u>	
Signature:	Date:
Second Inventor (Legal Name): <u>Katsufumi MOCHIZUKI</u>	
Signature:	Date:
Third Inventor (Legal Name): <u>Fumiko FUJIE</u>	
Signature:	Date:
Fourth Inventor (Legal Name): <u>Takahiro MUKUDA</u>	
Signature:	Date:
Fifth Inventor (Legal Name): <u>Hiroshi NIINO</u>	
Signature:	Date:
Sixth Inventor (Legal Name): <u>Fiko OKAMOTO</u>	
Signature:	Date:
Seventh Inventor (Legal Name): <u>Kazunari MATSUMURA</u>	
Signature: Kazunaki Matrumula	Date: June 13, 2022
Eighth Inventor (Legal Name): <u>Hiroko SHINADA</u>	
Signature:	Date:
Ninth Inventor (Legal Name): <u>Hiroki HAMAMOTO</u>	<u></u>
Signature:	Date:

Morgan, Lewis & Bockius LLP

(hereinafter designated as the Assignee) my entire right, title and interest for the United States as defined in 35 USC 100, for any invention set forth in the above-identified application.

I agree to execute all papers necessary in connection with this application for patent in the United States Patent & Trademark Office for the invention, and any continuation, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any post-grant proceeding which may occur in connection with this application or continuation, divisional or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such post-grant proceeding.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, which includes the right to claim priority and the right to be granted a patent in any PCT Contracting State.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

# COMBINED DECLARATION & ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION I hereby authorize and request the USPTO to issue any and all Letters Patents of the United States resulting from the application or any continuation, divisional or reissue applications thereof to the Assignee, as Assignee of my entire interest, and covenant that I have not executed, and will not execute, any agreement in conflict herewith. First Inventor (Legal Name): Hiroki FUKUTA Second Inventor (Legal Name): Katsufumi MOCHIZUKI Signature: \_\_\_\_\_ Date: Third Inventor (Legal Name): Furniko FUJIE Signature: Date: Fourth Inventor (Legal Name): Takahiro MUKUDA Signature: Fifth Inventor (Legal Name): Hiroshi NIINO Signature: Date: Sixth Inventor (Legal Name): <u>Eiko OKAMOTO</u> Signature: \_\_\_\_\_ Date: Seventh Inventor (Legal Name): Kazunari MATSUMURA Eighth Inventor (Legal Name): Hiroko SHINADA Signature: / Windko Shinada June 13, 2022 Date: Ninth Inventor (Legal Name): Hiroki HAMAMOTO Signature: <u>Hîrokî Hananoco</u> June 13, 2022 Date:

Morgan, Lewis & Bockius LLP