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### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Michio KOMATSU	02/24/2021
Kazuhiro NAKAYAMA	02/24/2021
Tetsuya TANAKA	02/24/2021
Yuji TAWARAZAKO	02/24/2021
Tatsuya MUKAI	02/24/2021
Yuki MIWA	02/24/2021

#### **RECEIVING PARTY DATA**

Name: Jgc Catalysts And Chemicals Ltd.	
Street Address:	580, Horikawa-cho, Saiwai-ku
City:	Kawasaki-shi, Kanagawa
State/Country:	Japan
Postal Code:	212-0013

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

Property Type	Number		
Application Number:	17275970		

#### **CORRESPONDENCE DATA**

Fax Number: (703)836-2787

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ATTORNEY DOCKET NUMBER:	187891
NAME OF SUBMITTER:	GREGORY MCKNIGHT
SIGNATURE:	/Gregory McKnight/
DATE SIGNED:	03/12/2021

**PATENT REEL: 055578 FRAME: 0982** 

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## **Total Attachments: 4** source=8334373\_1#page1.tif

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**PATENT REEL: 055578 FRAME: 0983** 

# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

#### WORLDWIDE ASSIGNMENT

	Insert	(1)	Michio KOMATSU	(2)	) Kazuhiro NAKAYAMA
(1-8)	Legal Name(s)	(3)	Tetsuya TANAKA	(4)	Yuji TAWARAZAKO
	of Inventor(s)	(5)	Tatsuya MUKAI	(6)	Yuki MIWA
		(7)		(8)	)
		undersigned	tion of the sum of one dollar (\$ , the receipt and sufficiency of assign, transfer and set over to	1.00) and other go which are hereby a	ood and valuable consideration paid to each of the acknowledged, each undersigned agrees to assign, and
(9)	Insert Name of Assignee	(9)	JGC CATALYSTS AND CH	IEMICALS LTD.	
(10)	Insert Address of Assignee	(10)	580, Horikawa-cho, Saiwai-	ku, Kawasaki-shi,	, Kanagawa 212-0013, JAPAN
		provisional, application( of any treaty	divisional, continuation, internal s) filed in any country based the vor convention; and in all grants reissues and reexamination certi	ational, confirmation reon, and includin s, such as Letters F	in the invention, including any and all provisional, non- tion, substitute and reissue application(s), including any ag the right to file foreign applications under the provision Patent, certificates, utility models, confirmations, are granted in the United States and in all other countries or
(11)	Insert Identification such as Title, Case Number, or Foreign	(11)	SILICA-BASED PARTICLE	E DISPERSION A	AND PRODUCTION METHOD THEREFOR
	Application Number	(Attor	mey Docket No. 187891	), fi	iled on even date herewith or as
(12)	Alternative	(12)	U.S. Application Number		
	Identification for				The state of the s
	filed applications	filed			

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or grant for the invention and also to execute separate assignments in connection with such applications and grants as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or grant for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees 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.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm a grant to the Assignee in the United States and any other country in which the Assignee may file an application for patent or other grant.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office and other issuing authorities to issue any and all patents or other grants resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of any issuing authority, including the United States Patent and Trademark Office, for recordation of this document.

#### (13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

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.

PATENT REEL: 055578 FRAME: 0984 In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date		Inventor Signature	Michio KOMATSU	_ (SEAL)
Date		Inventor Signature	Kazuhiro NAKAYAMA	_ (SEAL)
Date	7eb, 24 2021	Inventor Signature	Tetsuya Tanaka Tetsuya TANAKA	_ (SEAL)
Date		Inventor Signature	Yuji TAWARAZAKO	_ (SEAL)
Date		Inventor Signature	Tatsuya MUKAI	(SEAL)
Date		Inventor Signature	Yuki MIWA	_ (SEAL)
Date		Inventor Signature		_ (SEAL)
Date		Inventor Signature		_ (SEAL)
	s assignment should preferably be signed befo I be signed before at least two witnesses who a		within the U.S.A. (b) a U.S. Consul if outside the U	.S.A. If neither,
Date	Feb, 24 2021	Witness	Yasuhiro Watarala	
Date	Fel. 24 2021	Witness	Mosahira Johase.	

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date		Inventor Signature	Michio KOMATSU	(SEAL)
Date	tub. 24.202	Inventor Signature	Hazulira nakayama	(SEAL)
Date		Inventor Signature	Tetsuya TANAKA	(SEAL)
Date	Feb. 2x 2021	Inventor Signature	Yaji Jawara Zakor Vuji TAWARAZAKO	(SEAL)
Date	Feb. 24 2021	Inventor Signature	Jasauja Mukai Tatsuya MUKAI	(SEAL)
Date	Feb. 24 2021	Inventor Signature	Yuki Miwa Yuki MIWA	(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature	·····	(SEAL)
	s assignment should preferably be signed before be signed before at least two witnesses who also		within the U.S.A. (b) a U.S. Consul if outside the U.S	.A. If neither,
Date	Feb, 24 2021	Witness	Yasuhiro Watanale	······································
Date	Feb, 24 2021	Witness	Mosohiro Japase	

In w	itness whereof, exceu	ted by the undersign	ed on the date(s) opposite the	undersigned name(s).	
Date	Feb. 24	2021	Inventor Signature	Michie Komatsu	(SEAL)
Date			Inventor Signature	Kazuhiro NAKAYAMA	(SEAL)
Date			Inventor Signature	Tetsuya TANAKA	(SEAL)
Date			Inventor Signature	Yuji TAWARAZAKO	(SEAL)
Date			Inventor Signature	Tatsuya MUKAI	(SEAL)
Date		<del></del>	Inventor Signature	Yuki MIWA	(SEAL)
Date			Inventor Signature		(SEAL)
Date	, <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		Inventor Signature		(SEAL)
Th it shoul	is assignment should d be signed before at	preferably be signed least two witnesses y	before: (a) a Notary Public if vào also sign here:	within the U.S.A. (b) a U.S. Consul if outsi	de the U.S.A. If ne
Date	Feb. 24	202/	Witness	Yawkiro Watarale	
Date	Feb . 24	2021	Witness	Masolino Johose	