

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Wataru SHIBAYAMA	11/17/2016
Kenji TAKASE	11/17/2016
Makoto NAKAJIMA	11/17/2016
Satoshi TAKEDA	11/17/2016
Hiroyuki WAKAYAMA	11/17/2016
Rikimaru SAKAMOTO	11/17/2016
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<b>Name:</b>	NISSAN CHEMICAL INDUSTRIES, LTD.
<b>Street Address:</b>	7-1, KANDA-NISHIKI-CHO 3-CHOME
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<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	1010054
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15325769
<b>CORRESPONDENCE DATA</b>	
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<b>NAME OF SUBMITTER:</b>	KIMBERLY SCOTT
<b>SIGNATURE:</b>	/Kimberly C. Scott/ for James A. Oliff
<b>DATE SIGNED:</b>	01/12/2017

PATENT

**Total Attachments: 1**

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# ASSIGNMENT

(1-8) Insert Name(s)  
of Inventor(s)

(1) Wataru SHIBAYAMA (5) Hiroyuki WAKAYAMA  
(2) Kenji TAKASE (6) Rikimaru SAKAMOTO  
(3) Makoto NAKAJIMA (7) \_\_\_\_\_  
(4) Satoshi TAKEDA (8) \_\_\_\_\_

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee

(9) NISSAN CHEMICAL INDUSTRIES, LTD.

(10) Insert Address of  
Assignee

(10) 7-1, Kanda-Nishiki-cho 3-chome, Chiyoda-ku, Tokyo 1010054, Japan

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. § 100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification,  
such as Title, Case Number  
or Foreign Application  
Number

(11) SILICON-CONTAINING RESIST UNDERLAYER FILM-FORMING  
COMPOSITION HAVING HALOGENATED SULFONYLALKYL GROUP

(Attorney Docket No. \_\_\_\_\_)

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) Insert Date of Signing of  
Application

(12) on November 17, 2016

(13) Alternative Identification  
for filed applications

(13) U.S. application Serial Number \_\_\_\_\_  
filed \_\_\_\_\_

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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 by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Director of Patents to issue any and all Letters Patents of the United States 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 agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, and assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF PLC the power of insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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

Date	<u>Nov. 17, 2016</u>	Inventor Signature	<u>Wataru Shibayama</u>	(SEAL)
Date	<u>Nov. 17, 2016</u>	Inventor Signature	<u>Kenji Takase</u>	(SEAL)
Date	<u>Nov. 17, 2016</u>	Inventor Signature	<u>Makoto Nakajima</u>	(SEAL)
Date	<u>Nov. 17, 2016</u>	Inventor Signature	<u>Satoshi Takeda</u>	(SEAL)
Date	<u>Nov. 17, 2016</u>	Inventor Signature	<u>Hiroyuki Wakayama</u>	(SEAL)
Date	<u>Nov. 17, 2016</u>	Inventor Signature	<u>Rikimaru Sakamoto</u>	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date \_\_\_\_\_ Witness \_\_\_\_\_  
Date \_\_\_\_\_ Witness \_\_\_\_\_