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1. A. Name of conveying parties:  
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 (2) Makiko UMEZAKI  
 (3) Noriaki FUJITANI  
 (4) Hirokazu NISHIMAKI  
 (5) Takahiro KISHIOKA  
 (6) Takahiro HAMADA

B. Additional name(s) of conveying party(ies) attached?  
 Yes  No

2. A. Name and address of receiving party:  
 NISSAN CHEMICAL  
 INDUSTRIES, LTD.  
 7-1, KANDA-NISHIKI-CHO 3-  
 CHOME,  
 CHIYODA-KU, TOKYO 1010054,  
 JAPAN

B. Additional name(s) & address(es) attached?  
 Yes  No

3. A. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

B. Execution Date: ALL: June 11, 2012

4. A. Patent Application No. 13/516,304 B. Patent No.(s) \_\_\_\_\_  
 Additional numbers attached?  Yes  No

C. Title of Application: COMPOSITION FOR FORMING PHOTSENSITIVE RESIST UNDERLAYER FILM

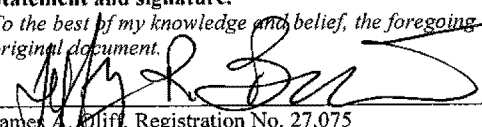
5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: James A. Oliff  
 Address: **OLIFF & BERRIDGE, PLC**  
**P.O. Box 320850**  
**Alexandria, VA 22320-4850**  
**Phone Number: 703-836-6400**  
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6. Total number of applications and patents involved: 1

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*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

  
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 James A. Oliff, Registration No. 27,075  
 Jeffrey R. Bousquet, Registration No. 57,771

Date: June 15, 2012

CH \$40.00 150461 13516304

# ASSIGNMENT

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

(1) Yusuke HORIGUCHI (5) Takahiro KISHIOKA  
 (2) Makiko UMEZAKI (6) Takahiro HAMADA  
 (3) Noriaki FUJITANI (7) \_\_\_\_\_  
 (4) Hirokazu NISHIMAKI (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) COMPOSITION FOR FORMING PHOTOSENSITIVE RESIST UNDERLAYER FILM  
 (Attorney Docket No. 153829)

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 June 11, 2012

(13) Alternative Identification for filed applications (13) U.S. application Serial Number 13/516,304  
 filed June 15, 2012

- 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 & BERRIDGE, 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>Jun. 11, 2012</u>	Inventor Signature	<u>Yusuke Horiguchi</u>	(SEAL)
Date	<u>Jun. 11, 2012</u>	Inventor Signature	<u>Makiko Umezaki</u>	(SEAL)
Date	<u>Jun. 11, 2012</u>	Inventor Signature	<u>Noriaki Fujitani</u>	(SEAL)
Date	<u>Jun. 11, 2012</u>	Inventor Signature	<u>Hirokazu NISHIMAKI</u>	(SEAL)
Date	<u>Jun. 11, 2012</u>	Inventor Signature	<u>Takahiro Kishioaka</u>	(SEAL)
Date	<u>Jun. 11, 2012</u>	Inventor Signature	<u>Takahiro Hamada</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 \_\_\_\_\_

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