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Attorney Docket No. 148197

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## 1. A. Name of conveying parties:

(1) Atsushi MURAMATSU  
(2) Kiyoshi KANIE  
(3) Kazuhisa SAITO  
(4) Koji TANOUE  
(5) Akira NAGATOMI

## B. Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

## 2. A. Name and address of receiving parties:

TOHOKU UNIVERSITY  
1-1, KATAHIRA 2-CHOME  
AOBA-KU, SENDAI-SHI  
MIYAGI 980-8577  
JAPAN

DOWA ELECTRONICS  
MATERIALS CO., LTD.  
14-1, SOTOKANDA 4-CHOME  
CHIYODA-KU, TOKYO 101-0021  
JAPAN

## B. Additional name(s) &amp; address(es) attached?

☐ Yes ☒ No

## 3. A. Nature of conveyance:

☐ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name

☒ Other Record to correct 2<sup>nd</sup> Assignee's name on an assignment document previously recorded on April 1, 2011, reel 026110/frame 0732

B. Execution Date: (1) and (2): March 7, 2011; (3): February 8, 2011; (4) and (5): January 28, 2011

4. A. Patent Application No. 13/002,995

## B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

C. Title of Application: MANUFACTURING METHOD OF ITO PARTICLES, AND ITO POWDER, COATING MATERIAL FOR TRANSPARENT ELECTROCONDUCTIVE MATERIAL AND TRANSPARENT ELECTROCONDUCTIVE 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  
Fax Number: 703-836-2787

6. Total number of applications and patents involved: 1

## 7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.

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## 9. Statement and signature.

*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.*

  
James A. Oliff, Registration No. 27,075  
Sarah Lhymn, Registration No. 65,041

Date: April 28, 2011

**PATENT**

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4/15/2011 8:08:16 AM PAGE 4/004 Fax Server

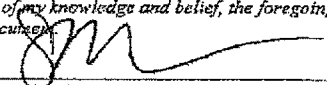
O:JAMES A. OLIFF COMPANY:OLIFF &amp; BERRIDGE, PLC

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<b>Mail Stop:</b> Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		<b>RECORDATION FORM COVER SHEET</b> <b>PATENTS ONLY</b>		<b>U.S. DEPARTMENT OF COMMERCE</b> <b>Patent and Trademark Office</b>	
				Attorney Docket No. <u>148197</u>	
Please record the attached document.					
Total number of pages including cover sheet, attachments, and document: <u>2</u>					
<b>1. A. Name of conveying parties:</b> (1) Atsushi MURAMATSU (2) Kiyoshi KANIE (3) Kazuhisa SAITO (4) Koji TANOUE (5) Akira NAGATOMI  <b>B. Additional name(s) of conveying party(ies) attached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<b>2. A. Name and address of receiving parties:</b>  TOHOKU UNIVERSITY 1-1, KATAHIRA 2-CHOME AOBA-KU, SENDAI-SHI MIYAGI 980-8577 JAPAN  DOWA ELECTRONICS MATERIALS CO. LTD. 14-1, SOTOKANDA 4-CHOME CHIYODA-KU, TOKYO 101-0021 JAPAN  <b>B. Additional name(s) &amp; address(es) attached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>3. A. Nature of conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____  <b>B. Execution Date:</b> <u>(1) and (2): March 7, 2011;</u> <u>(3): February 8, 2011;</u> <u>(4) and (5): January 28, 2011</u>					
<b>4. A. Patent Application No.</b> <u>13/002,995</u> <b>B. Patent No.(s)</b>  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <b>C. Title of Application:</b> <u>MANUFACTURING METHOD OF ITO PARTICLES, AND ITO POWDER</u> <u>COATING MATERIAL FOR TRANSPARENT ELECTROCONDUCTIVE</u> <u>MATERIAL AND TRANSPARENT ELECTROCONDUCTIVE FILM</u>					
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  Name: <u>James A. Oliff</u>  Address: <u>OLIFF &amp; BERRIDGE, PLC</u> <u>P.O. Box 320850</u> <u>Alexandria, VA 22320-4850</u> <u>Phone Number: 703-836-6400</u> <u>Fax Number: 703-836-2787</u>			<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40,00.</b>  <b>8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.</b>		
<b>9. Statement and signature.</b> <i>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.</i>  James A. Oliff, Registration No. 27,075 Sarah Lhynn, Registration No. 65,041  Date: <u>April 1, 2011</u>					

CH \$40.00 150461 13002995

PATENT

REEL: 026215 FRAME: 0371

# **ASSIGNMENT** **(Two Assignees)**

(1-8) <b>Insert Name(s) of Inventor(s)</b>	(1) <u>Atsushi MURAMATSU</u>	(4) <u>Koji TANOUE</u>
	(2) <u>Kiyoshi KANIE</u>	(5) <u>Akira NAGATOMI</u>
	(3) <u>Kazuhisa SAITO</u>	(6) _____

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

(9A) <b>Insert Name of First Assignee</b>	(9A) <u>TOHOKU UNIVERSITY</u>
(10A) <b>Insert Address of First Assignee</b>	(10A) <u>1-1, Katahira 2-chome, Aoba-ku, Sendai-shi Miyagi 980-8577</u>
(9B) <b>Insert Name of Second Assignee</b>	(9B) <u>DOWA ELECTRONICS MATERIALS CO., LTD.</u>
(10B) <b>Insert Address of Second Assignee</b>	(10B) <u>14-1, Sotokanda, 4-chome, Chiyoda-ku, Tokyo 101-0021 Japan</u>

(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, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) <b>Insert Identification, such as Title, Case Number or Foreign Application Number</b>	(11) <u>MANUFACTURING METHOD OF ITO PARTICLES, AND ITO POWDER, COATING MATERIAL FOR TRANSPARENT ELECTROCONDUCTIVE MATERIAL AND TRANSPARENT ELECTROCONDUCTIVE FILM</u>
---	---

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) <b>Insert Date of Signing of Application</b>	(12) _____ on _____
---	------------------------

(13) <b>Alternative Identification for filed applications</b>	(13) U.S. Application Serial Number _____ filed _____
---	--

1) Each undersigned agrees to execute all papers necessary in connection with the 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 Assignees may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees 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 Assignees.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees 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, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, 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 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>March 7, 2011</u>	Inventor Signature <u>Atsushi Muramatsu</u> (SEAL)
Date <u>March 7, 2011</u>	Inventor Signature <u>Kiyoshi Kanie</u> (SEAL)
Date <u>Feb. 8, 2011</u>	Inventor Signature <u>Kazuhisa SAITO</u> (SEAL)
Date <u>Jan. 28, 2011</u>	Inventor Signature <u>Koji Tanoue</u> (SEAL)
Date <u>Jan 28, 2011</u>	Inventor Signature <u>Akira NAGATOMI</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 \_\_\_\_\_

**PATENT**

**REEL: 026215 FRAME: 0372**

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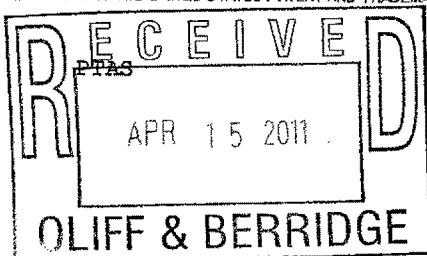
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**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 12, 2011

JAMES A. OLIFF  
OLIFF & BERRIDGE, PLC  
P.O. BOX 320850  
ALEXANDRIA, VA 22320-4850



\*700459887\*

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REEL/FRAME: 026110/0732

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 148197

## ASSIGNOR:

MURAMATSU, ATSUSHI

DOC DATE: 03/07/2011

## ASSIGNOR:

KANIE, KIYOSHI

DOC DATE: 03/07/2011

## ASSIGNOR:

SAITO, KAZUHISA

DOC DATE: 02/08/2011

## ASSIGNOR:

TANOUE, KOJI

DOC DATE: 01/28/2011

## ASSIGNOR:

NAGATOMI, AKIRA

DOC DATE: 01/28/2011

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026110/0732 PAGE 2

## ASSIGNEE:

TOHOKU UNIVERSITY  
1-1, KATAHIRA 2-CHOME  
AOBA-KU, SENDAI-SHI  
MIYAGI 980-8577, JAPAN

## ASSIGNEE:

*Please insert  
comma*  
DOWA ELECTRONICS MATERIALS CO. LTD.  
14-1, SOTOKANDA 4-CHOME  
CHIYODA-KU, TOKYO 101-0021, JAPAN

APPLICATION NUMBER: 13002995

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: MANUFACTURING METHOD OF ITO PARTICLES, AND ITO POWDER,  
COATING MATERIAL FOR TRANSPARENT ELECTROCONDUCTIVE MATERIAL  
AND TRANSPARENT ELECTROCONDUCTIVE FILM

MARY BENTON, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION