AID 581-40

## **LAPO3Rec'd PCT** 0 8 NOV 2011 **13/138976** U.S. DEPARTMENT OF COMMERCE

Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)	/2011 U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
To the Director of the U.S. Patent and 10363	cuments or the new address(es) below.
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)
Ken-ichi NAKAYAMA, Junji KIDO, Yong-Jin PU,	Name: SEE ATTACHED
Yohei HASHIMOTO	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes No  3. Nature of conveyance/Execution Date(s):  Execution Date(s) September 22, 2011  Assignment Merger  Security Agreement Change of Name  Joint Research Agreement  Government Interest Assignment  Executive Order 9424, Confirmatory License  Other	Street Address:  City:  State:  Country:  Additional name(s) & address(es) attached?  Yes  No
4. Application or patent number(s):	document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers at 5. Name and address to whom correspondence	ached? ☐ Yes ✓ No  6. Total number of applications and patents
concerning document should be mailed:	involved:1
Name: Robert J. Schneider	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Chapman and Cutler LLP	Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: 111 West Monroe Street,	✓ Enclosed
Suite 1700	None required (government interest not affecting title)
City: Chicago	8. Payment Information
State: IL Zip: 60603	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: (312) 845-3919	b. Deposit Account Number 50-0305
Fax Number: (312) 803-5299	
Email Address: bschneid@chapman.com	Authorized User Name Robert J. Schneider
9. Signature:	November 8, 2011
Signature	Date
Jane S. Berman, Reg. No. 43,494  Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450
11/09/2011 TLUU11 00000006 13138976

Attorney Docket No. 1722339

<sup>309</sup>857t:8021

40.00 OP

## IAPO3Rec'd PCT 0 8 NOV 2011 13/138976

ATTY. DOCKET NO. 1722339

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

Name:

DAINICHISEIKA COLOR & CHEMICALS MFG. CO., LTD.

Street Address:

7-6, Nihonbashi Bakuro-cho, 1-chome

City:

Chuo-ku

State:

Tokyo

Country:

Japan

Zip:

103-8383

Name:

Ken-ichi NAKAYAMA

Street Address:

c/ö Yamagata University, 3-16, Jonan 4-chome

City:

Yonezawa-shi

State:

Yamagata

Country:

Japan

Zip:

992-8510

Title of Inventions	NAKAYAMA, Ken-ichi
Title of Invention:	ORGANIC SEMICONDUCTOR MATERIAL, ORGANIC
	SEMICONDUCTOR THIN FILM, AND ORGANIC THIN-FILM TRANSISTOR
Attorney Docket No.:	1722339
U.S. National Phase of:	PCT/JP2010/058255
	ASSIGNMENT
	ASSIGNMENT
	the state of the s
	sideration, the receipt and sufficiency of which are hereby signed inventor has sold and assigned, and by these presents hereby
sells and assigns, unto:	signed inventor has sold and assigned, and by these presents hereby
ons and assigns, amo.	
	DUCKHERHZA COLOD & CHEMICALS MEC CO. LTD
(4) 4 4 TY TY 1	
(1)Assignee's Name: DA	NICHISEIKA COLOR & CHEMICALS MFG. CO., LTD.  6. Nihonhashi Bakuro-cho 1-chome. Chuo-ku, Tokyo 103-8383, Japan
(1)Assignee's Name: DA (1)Assignee's Address: 7	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan
(1)Assignee's Address: 7- (2)Assignce's Name: NA	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi,
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, 'amagata 992-8510, Japan
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Yamagata 992-8510, Japan e entire right, title and interest for the United States of America, its
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, 'amagata 992-8510, Japan
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/ (2) (hereinafter Assignee) the territories and possessions	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Yamagata 992-8510, Japan e entire right, title and interest for the United States of America, its
(1)Assignee's Address: 7- (2)Assignce's Name: NA (2)Assignce's Address: c/ (2)Assignce's Address: c/ (4) (hereinafter ASSIGNEE) the territories and possessions (Invention Title:	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, amagata 992-8510, Japan e entire right, title and interest for the United States of America, its, in and to his/her invention relating to:
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/ (1) (hereinafter Assignee) the territories and possessions (Invention Title: ORGANIC SEMICONDU	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Yamagata 992-8510, Japan entire right, title and interest for the United States of America, its, in and to his/her invention relating to:
(1)Assignee's Address: 7- (2)Assignce's Name: NA (2)Assignce's Address: c/ (2)Assignce's Address: c/ (4) (hereinafter ASSIGNEE) the territories and possessions (Invention Title:	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Yamagata 992-8510, Japan entire right, title and interest for the United States of America, its, in and to his/her invention relating to:
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/ (hereinafter Assignee) th territories and possessions  Invention Title:  ORGANIC SEMICONDU AND ORGANIC THIN-F	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Zamagata 992-8510, Japan e entire right, title and interest for the United States of America, its, in and to his/her invention relating to:  OCTOR MATERIAL, ORGANIC SEMICONDUCTOR THIN FILM, ILM TRANSISTOR
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/ (hereinafter Assignee) th territories and possessions  Invention Title:  ORGANIC SEMICONDU AND ORGANIC THIN-F	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Yamagata 992-8510, Japan entire right, title and interest for the United States of America, its, in and to his/her invention relating to:
(1)Assignee's Address: 7- (2)Assignee's Name: NA (2)Assignee's Address: c/ (hereinafter Assignee) th territories and possessions  Invention Title:  ORGANIC SEMICONDU AND ORGANIC THIN-F	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Zamagata 992-8510, Japan e entire right, title and interest for the United States of America, its, in and to his/her invention relating to:  OCTOR MATERIAL, ORGANIC SEMICONDUCTOR THIN FILM, ILM TRANSISTOR
(1) Assignee's Address: 7- (2) Assignee's Name: NA (2) Assignee's Address: c/ (hereinafter Assignee) the territories and possessions  Invention Title:  ORGANIC SEMICONDUAND ORGANIC THIN-F  as set forth in his/her Unit  _X executed co	6, Nihonbashi Bakuro-cho 1-chome, Chuo-ku, Tokyo 103-8383, Japan KAYAMA, Ken-ichi o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Zamagata 992-8510, Japan e entire right, title and interest for the United States of America, its, in and to his/her invention relating to:  OCTOR MATERIAL, ORGANIC SEMICONDUCTOR THIN FILM, ILM TRANSISTOR  ed States Patent Application (check one):

and to any and all Letters Patent of the United States, which may issue on any such application or

Assignment of U.S. Rights

Assignment of U.S. Rights

Attorney Docket No.:

1722339

U.S. National Phase of:

PCT/JP2010/058255

for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made.

Each of the undersigned hereby authorizes and requests the U.S. Commissioner of Patents and Trademarks to issue all such Letters Patent for said invention to ASSIGNEE, its successors or assigns, in accordance with the terms of this Assignment.

Each of the undersigned warrants, covenants, and agrees that he/she has the full and unencumbered right to sell and assign the interests herein sold and assigned, and that he has not executed and will not execute any document or instrument in conflict herewith.

Each of the undersigned further warrants, covenants and agrees he/she will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to or to obtain and enforce patent protection for said invention, and for said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent for said invention.

Each of the undersigned hereby grants the firm of Chapman and Cutler LLP, or any partner thereof, the power to insert into this Assignment any further identification, which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office concerning recordation of this Assignment.

U.S. National Phase of: PCT/JP2010/058255 Each of the undersigned acknowledges that this Assignment may be executed in counterparts, each of which will be deemed an original, but all of which together will constitute one and the same instrument. Inventor's Name (Print or Type): NAKAYAMA, Ken-ichi Inventor's Address: c/o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Yamagata 992-8510, Japan Inventor's Country of Citizenship: Japan September 29, 2011 Inventor's Name (Print or Type): KIDO, Junji Inventor's Address: c/o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Yamagata 992-8510, Japan Inventor's Country of Citizenship: Japan September 22, 2011 Signature of Inventor September 29, 2011 Witness Inventor's Name (Print or Type): PU, Yong-Jin Inventor's Address: c/o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi, Yamagata 992-8510, Japan Inventor's Country of Citizenship: Korea September 22, 2011 Signature of Inventor September 29, 2011

Assignment of U.S. Rights

Attorney Docket No.:

1722339

Assignment of U.S. Rights

Attorney Docket No.:

• ( ) Q

1722339

U.S. National Phase of:

PCT/JP2010/058255

Inventor's Name (Print or Type): HASHIMOTO, Yohei

Inventor's Address:

c/o YAMAGATA UNIVERSITY, 3-16, Jonan 4-chome, Yonezawa-shi,

Yamagata 992-8510, Japan

Inventor's Country of Citizenship: Japan

Yohei Hashimoto

Signature of Inventor

(ak

Witness

September 22, 2011

Date

Date

PATENT REEL: 027314 FRAME: 0849

RECORDED: 11/08/2011