Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Isao SHIMOYAMA	08/02/2010
Kiyoshi MATSUMOTO	08/03/2010
Eiji IWASE	07/30/2010
Akihito NAKAI	08/06/2010
Binh Khiem NGUYEN	08/06/2010
Yusuke TANAKA	08/03/2010
Shuji HACHITANI	07/30/2010
Tohru NAKAMURA	07/30/2010
Shoichi KOBAYASHI	07/30/2010

RECEIVING PARTY DATA

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State/Country:	JAPAN	
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Street Address:	3-1, Hongo 7-chome, Bunkyo-ku	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	113-8654	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12920147

CORRESPONDENCE DATA

PATENT REEL: 025330 FRAME: 0206

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NAME OF SUBMITTER: Hiroo MAEDA

Total Attachments: 4

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PATENT REEL: 025330 FRAME: 0207

Panasonic Ref*: <u>P052015-01</u>	-
Japan Firm Name: <u>AOYAMA & PARTNERS</u>	-
US Firm Name*: WLP	•

Application Se	rial No. 12/920147
Japan Firm Re	of: 558025
, US Firm Ref:,	2010-U80A

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:			
Box 1			
Title of Invention: THREE-DIMENSIONAL STRUCTURE AND ITS MANUFACTURING ME	THOD		
1. For use when signing Declaration prior to filing L	I.S. patent application (check onl	y one box below)	
(a)⊡ for which an application for U.S. patent has been executed			
(b) for which an application for U.S. patent has been executed on the following date(s):			
(c) for which an International Application has been filed as: (for the PCT-US national entry, check only (e) and enter PCT application number in the right)	PCT Application No.	PCT/JP2009/001126 and,	
2. For use when signing Declaration	n after filling U.S. patent application	nn	
(d)□ for which an application for U.S. patent has been filed on:	Application Filing Date	and,	

WHEREAS, <u>The University of Tokyo of 3-1. Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654, JAPAN</u>, and <u>Panasonic Corporation of 1006.</u>
Oaza Kadoma, Kadoma-shi, Osaka 571-8501, JAPAN

its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are desirous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, 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, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States and any foreign patent(s) to the Assignee(s) and to vest all rights hereby conveyed to the Assignee(s) as fully and entirely as the same would have been held by

the undersigned if this Assignment had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents, and officials of all foreign countries, whose duty is to issue patents, to issue any and all Letters Patent(s) resulting from said application or any and all Related Applications thereof to said Assignee(s) and hereby covenants that the undersigned has (have) full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

The undersigned hereby does sell, assign and transfer unto said Assignee(s) the full and exclusive authority for revoking power of attorney(s) executed by the undersigned in connection with this application and for appointing a new power of attorney in place thereof. The undersigned hereby grant(s) the Assignee(s) and the appointed U.S. patent attorneys and agents the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent Office for recordation of this document.

The undersigned hereby agree(s) that the above obligations shall apply to the undersigned both individually and collectively.

The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

Box2	(Each Inventor, please Sign and Date belo	ow)	
	(e) First Name, Last Name	(f) Signature	(g) Date signed
	(e)	7	Month, Date, Year
(1)	Isao SHIMOYAMA	199	August 2,2010
			Month, Dale, Year
(2)	Kiyoshi MATSUMOTO	trigals Macrimoto	Aug. 3. 2010
-			"- (Month, Date, Year
(3)	EIJI IWASE	,	
<u> </u>			Month, Date, Year
(4)	Akihito NAKAI	Akihito Vakai PA	TENUT. 6.2010
	1	REEL: 02533	0 FRAME: 0208

ASSIGNMENT (Cont.)

Additional inventors:

<u>12/920147</u>

Box2 ((Continued)		
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(5)	Binh Khiem NGUYEN	penin	Month, Date, Year August, 6,2010
(6)	Yusuke TANAKA	Yusube Tanaka	Month, Date, Year August, 3, 2010
7)	Shuji HACHITANI	Shuji Hackitani Tohru Nakamura	July, 30, 2010
(8)	Tohru NAKAMURA	Tohru Nakamura	July, 30, 2010
(9)	Shoichi KOBAYASHI	Sloviché Kobayadié	July 30 2010
(10)			Month, Date, Year
(11)			Morith, Date, Year
(12)			Month, Date, Year
(13)			Month, Dete, Year
(14)			Month, Date, Year
(15)			Month, Dale, Year
(16)			Month, Date, Year
(17)			Month, Date, Year
(18)		<u> </u>	Month, Date, Year
(19)			Month, Dete, Year
(20)			Month, Date, Year
			Month, Dale, Year
(21)			Month, Date, Year
(22)			PATENT

PATENT

REEL: 025330 FRAME: 0209

Application Serial No. 12/920147
Japan Firm Ref: 558025
US Firm Ref: 2010 - 1180A

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:			
Box 1			
Title of Invention:			
THREE-DIMENSIONAL STRUCTURE AND ITS MANUFACTURING ME	THOD		
		•	
1. For use when signing Declaration prior to filing t	U.S. patent application (check only	r оле box below)	
4 5 - 8 - 4 5 1	his the condensationed commit	annually bearings.	
(a)□ for which an application for U.S. patent has been executed	by the undersigned concu	rendy nerewith, or	
(b)□ for which an application for U.S. patent has been executed on the following date(s):, or			
(If Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank if it	ise Declaration was signed before this Assign	ment, enter the date(s) on which you signed the Dec	elaration)
(c)■ for which an International Application has been filed as:	DOT Application No.	DOT/100000001400	
(C) TOF WINCH AN INTERNATIONAL Application (Las been filed as. (for the PCT-US national entry, check only (c) and enter PCT application number to the right)	PCT Application No.	PCT/JP2009/001126	and,
2. For use when signing Declaratio	n after filing U.S. patent application	n	
	1		
(d) for which an application for U.S. patent has been filed on:	Application Filing Date		and,

WHEREAS, The University of Tokyo of 3-1. Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654, JAPAN, and Panasonic Corporation of 1005.

Oaza Kadoma, Kadoma-shi, Osaka 571-8501, JAPAN

its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are desirous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, relssues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, 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, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all illigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all iRelated Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

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The undersigned hereby authorize(s) and request(s) the Commissioner of Patents, and officials of all foreign countries, whose duty is to issue patents, to issue any and all Letters Patent(s) resulting from said application or any and all Related Applications thereof to said Assignee(s) and hereby covenants that the undersigned has (have) full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute any assignment, sale, agreement or encumbrances in conflict herewith.

(have) not executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

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The undersigned hereby agree(s) that the above obligations shall apply to the undersigned both individually and collectively.

The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within the United States.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

Box2	(Each Inventor, please Sign and Date below)			
	(e) First Name, Last Name	(f) Signature	(g) Date signed	
(1)	Isao SHIMOYAMA		Month, Dela, Year	
(2)	Klyoshi MATSUMOTO		Month, Date, Year	
(3)	EIJI IWASE	Ein Lwase	July 30, 2010	
(4)	Akihito NAKAI	<i>T</i>	Month, Date, Your	

■Check if additional paper(s) is/are attached. Total of 2 pages are submitted.

ASSIGNMENT (Cont.)

Additional inventors:

12/920147

Box2	(Continued)		
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(5)	Binh Khiem NGUYEN		Month, Date, Year
(6)	Yusuke TANAKA		Month, Date, Year
(7)	Shuji HACHITANI		Month, Date, Year
(8)	Tohru NAKAMURA		Month, Date, Year
(9)	Shoichi KOBAYASHI		Month, Date, Year
(10)			Month, Date, Year
(11)			Month, Date, Year
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(20)			Month, Date, Year
(21)			Month, Date, Year

PATENT REEL: 025330 FRAME: 0211

RECORDED: 11/08/2010