

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT2987435

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHONGWU ZHOU	08/19/2014
FUMIAKI ISHIKAWA	08/11/2014
HSIAO-KANG CHANG	08/07/2014
KOUNGMIN RYU	10/28/2008
RECEIVING PARTY DATA	
Name:	UNIVERSITY OF SOUTHERN CALIFORNIA
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City:	LOS ANGELES
State/Country:	CALIFORNIA
Postal Code:	90015
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	61117519
Application Number:	12538597
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	SARAH J. KNIGHT
SIGNATURE:	/sarah j. knight/
DATE SIGNED:	08/19/2014
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, we, the undersigned, CHONGWU ZHOU, FUMIAKI ISHIKAWA, HSIAO-KANG CHANG, and KOUNGMIN RYU, residing respectively at the addresses given below, have invented certain new and useful improvements in **TRANSPARENT ELECTRONICS BASED ON TRANSFER PRINTED CARBON NANOTUBES ON RIGID AND FLEXIBLE SUBSTRATES** (“Invention”), for which an application for United States Letters Patent was:

Filed November 24, 2008, Serial No. 61/117,519; and
Filed August 10, 2009, Serial No. 12/538,597.

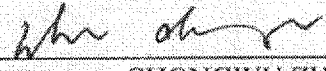
WHEREAS, by virtue of our employment, appointment, or affiliation with the UNIVERSITY OF SOUTHERN CALIFORNIA, having an office at 1150 South Olive Street, Suite 2300, Los Angeles, CA 90015, and pursuant to the agreement executed October 28, 2008 in the Technology Disclosure, we have assigned all our rights in the Invention to the UNIVERSITY OF SOUTHERN CALIFORNIA or its assignee or designee;

NOW, THEREFORE, in view of good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, we, the undersigned, confirm and ratify that we have sold, assigned, and transferred, and by these presents do sell, assign, and transfer, unto said UNIVERSITY OF SOUTHERN CALIFORNIA, its successors and assigns, the full and exclusive right to the said Invention in the United States and its territorial possessions and in all foreign countries and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, and extensions thereof.


We hereby authorize and request the Patent Office Officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said UNIVERSITY OF SOUTHERN CALIFORNIA, as the assignee of the entire right, title and interest in and to the same, for the sole use and behalf of said UNIVERSITY OF SOUTHERN CALIFORNIA, its successors and assigns.

FURTHER, we agree that we will communicate to said UNIVERSITY OF SOUTHERN CALIFORNIA, or its representatives, any facts known to me respecting said Invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said UNIVERSITY OF SOUTHERN CALIFORNIA; make all rightful oaths; and generally do everything possible to aid the said UNIVERSITY OF SOUTHERN CALIFORNIA, its successors and assigns, to obtain and enforce proper protection for said Invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 19th day of August, 2014.

Signature: 
CHONGWU ZHOU

Address: 2870 Somerset Pl.
San Marino, CA 91108

Witness: 

Signature: 

Name: HAITIAN CHIEN

Date: 08/19th, 2014

IN TESTIMONY WHEREOF, I have hereunto set my hand this 11 day of August, 2014.

Signature: Fumiaki Ishikawa
FUMIAKI ISHIKAWA

Address: Homeing Residence Mito Chu 805
1-2-10 Chu Mito city, Ibaraki,
310-0805, Japan

Witness:

Signature: Liang Chen

Name: Liang Chen

Date: 8/11/2014

IN TESTIMONY WHEREOF, I have hereunto set my hand this 17th day of August, 2014.

Signature: [Signature]
HSIAO-KANG CHANG

Address: 16534 NW Rosetta St
Portland, OR 97229

Witness:

Signature: [Signature]

Name: Hsin-Ni Chuang

Date: 08/07/2014

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2014.

Signature: _____
KOUNGMIN RYU

Address: _____

Witness:
Signature: _____
Name: _____
Date: _____

Date Received MAY 8 2008	University of Southern California Technology Disclosure		USC File No. 09-140		
1. Non-Confidential and Descriptive Title of Technology Transparent Electronics Based on Transfer Printed Aligned Carbon Nanotubes on Rigid and Flexible Substrates.					
2. Inventor(s) &/or Software Author(s) - Identify one preferred contact	Telephone	Fax number	Email address	Employer/Position	Departmental Address
Chongwu Zhou Fumiaki Ishikawa Hsiao-kang Chang Koungmin Ryu	[REDACTED] [REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED]	USC/Associate professor USC/Grad. Student USC/Grad. Student USC/Grad. Student	Department of Electrical Engineering - Electrophysics RTH 511 Ronald Tutor Hall 3710 McClintock Ave. Los Angeles, CA 90089
3.a. Has any funding been used, in whole or in part, to conceive, make, test, or develop the technology? (List additional sponsors on a separate sheet.) Please note that accurate and complete sponsorship information is necessary to fulfill USC obligations under research contracts and Federal grants. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, list the following information.					
Grant Number CCF-0726815 CCF-0702204 2003-NT-1107	USC Account No 53-4502-7141 53-4502-6301 53-4502-5314	Sponsor NSF NSF Center on Functional Engineered and Nano Architectonics	Principal Investigator Chongwu Zhou Chongwu Zhou Chongwu Zhou		
3.b. Have any USC funds and/or facilities been used, in whole or in part, to conceive, make, test, or develop the technology? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please identify and list the specific USC account numbers and/or USC facilities used. If necessary, list on a separate sheet of paper. Account number: Facilities in RTH B118					
4. Are any of the inventors affiliated with the Alfred Mann Institute (AMI-USC)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please identify the inventor(s) and affiliation(s).					
5. Does the technology include software? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, please complete the "Software Addendum."					
6. Have you received materials or equipment from a third party in connection with this technology? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please attach any relevant written agreements with the third party (for example, material transfer agreement (MTA).)					
7. Are there any other arrangements with a third party that may affect patent rights, including research or consulting agreements? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please attach the relevant written agreements.					
8. Please list the dates and locations of the following: (see Instruction Sheet for definitions)	Date	Notebook No. or Publication Citation	Page		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		

9. Have any of the following occurred or will occur in connection with the technology?					
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

*See the Instruction Sheet for a definition of "Publication" and the types of documents included.
 If "Yes" to any of the above, fully describe the publication (full journal citation, USC technical report no, meeting location and date, etc) and attach copies of any written publications.

10. Attach a complete description of technology (Caption attachments describing the invention per the Instruction Sheet.)

11. Attach market information per the Instruction Sheet (if known)

12. List key words for searches. List full names of inventors of possibly similar technologies.

Transparent transistor, printing, aligned carbon nanotube, flexible transistor

13. I (we) hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed true.

I (We) hereby agree to assign all right, title, and interest to this invention to USC and agree to execute all documents as requested, assigning to USC our rights in any patent application filed on this invention, and to cooperate with USC OTL in the protection of this invention. USC will share net royalty income derived from the invention with the inventor(s)/author(s) according to its standard policies.

Inventor's Signature Chongwu Zhou <i>Chongwu Zhou</i>	Date Oct 28 th 2008	Inventor's Signature Fumiaki Ishikawa <i>Fumiaki Ishikawa</i>	Date Oct 28 th 2008
Home Address 2411 Briargate Ln Arcadia, CA 91007		Home Address 2527 Artesia Blvd., Torrance, CA, 90504	

Country of Citizenship China	Country of Citizenship Japan
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Inventor's Signature Hsiao-Kang Chang <i>Hsiao-Kang Chang</i>	Date Oct 28 th 2008	Inventor's Signature Koungmin Ryu <i>Koungmin Ryu</i>	Date Oct 28 th 2008
Home Address 2727 Ellendale pl., #208 Los Angeles, CA 90007		Home Address 1138 W. 29 th St. #4 Los Angeles, CA 90007	

Country of Citizenship Republic of China (Taiwan)	Country of Citizenship South Korea
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Please note that country of citizenship required. If there are more than four inventors, please attach an additional form.

YOU ARE RESPONSIBLE FOR PROMPTLY NOTIFYING OTL IN WRITING OF ANY CHANGES OR ADDITIONS TO THE INFORMATION PROVIDED ON THIS FORM ON A CONTINUING BASIS.

Technology disclosed to and understood by a non-inventor witness	Date
Signature of Non-Inventor Witness	

Name and Title of Witness (Please print or type.)