### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SHUOQIN WANG	09/24/2012
PING LIU	09/25/2012
JOHN WANG	10/05/2012

### **RECEIVING PARTY DATA**

Name:	HRL LABORATORIES, LLC
Street Address:	3011 MALIBU CANYON ROAD
Internal Address:	LEGAL
City:	MALIBU
State/Country:	CALIFORNIA
Postal Code:	90265-4799

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15196030

### **CORRESPONDENCE DATA**

**Fax Number:** (866)586-5349

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 952-472-9884

**Email:** RPO@oconnorcompanypllc.com

Correspondent Name: O'CONNOR & COMPANY

Address Line 1: PO BOX 580 Address Line 2: ATTN: RPO

Address Line 4: MINNETRISTA, MINNESOTA 55364

ATTORNEY DOCKET NUMBER:	111111-DIV
NAME OF SUBMITTER:	RYAN P. O'CONNOR
SIGNATURE:	/Ryan P. O'Connor/
DATE SIGNED:	06/29/2016

### **Total Attachments: 3**

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PATENT 503893509 REEL: 039034 FRAME: 0802

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PATENT REEL: 039034 FRAME: 0803



# ASSIGNMENT

WHEREAS: Shuoqin WANG Residing in: Oakpark, California

(hereinafter referred to as ASSIGNOR), has invented and owns a certain invention entitled:

Title: "METHODS AND APPARATUS FOR DYNAMIC CHARACTERIZATION OF ELECTROCHEMICAL SYSTEMS" (HRL Docket No. 111111)

WHEREAS: HRL Laboratories, LLC

A Limited Liability Company formed under the laws of the State of Delaware, United States of America, having its principal place of business at:

3011 Malibu Canyon Road Malibu, California 90265-4799

(hereinafter referred to as ASSIGNEE), is desirous of acquiring entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that ASSIGNOR, for good and valuable consideration, hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries, including the right to claim priority under any applicable provisions of the International Convention and the Patent Cooperation Treaty and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by any application, continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNOR hereby convents that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with the assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention, assignments related to said application or the invention, and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Subscribed	l and executed at:	Makron	Maring my	
On:	9-34-12			
Inventor:	State			
	State Market State	A Particular Section 1		

PATENT REEL: 039034 FRAME: 0804



## **ASSIGNMENT**

WHEREAS:

Ping LIU

Residing in:

in: <del>Irvine</del>, California

San Diego

(hereinafter referred to as ASSIGNOR), has invented and owns a certain invention entitled:

Title: "METHODS AND APPARATUS FOR DYNAMIC CHARACTERIZATION

OF ELECTROCHEMICAL SYSTEMS" (HRL Docket No. 111111)

WHEREAS:

HRL Laboratories, LLC

A Limited Liability Company formed under the laws of the State of Delaware, United States of America, having its principal place of business at:

3011 Malibu Canyon Road Malibu, California 90265-4799

(hereinafter referred to as ASSIGNEE), is desirous of acquiring entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that ASSIGNOR, for good and valuable consideration, hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries, including the right to claim priority under any applicable provisions of the International Convention and the Patent Cooperation Treaty and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by any application, continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNOR hereby convents that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with the assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention, assignments related to said application or the invention, and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Subscribed and executed at: Washington, DC		
On:	9/25/2012	
Inventor:	724 /	

PATENT REEL: 039034 FRAME: 0805



## ASSIGNMENT

WHEREAS:

John WANG

Residing in:

Glendora, California

(hereinafter referred to as ASSIGNOR), has invented and owns a certain invention entitled:

Title: "METHODS AND APPARATUS FOR DYNAMIC CHARACTERIZATION

OF ELECTROCHEMICAL SYSTEMS" (HRL Docket No. 111111)

WHEREAS: HRL Laboratories, LLC

A Limited Liability Company formed under the laws of the State of Delaware, United States of America, having its principal place of business at:

3011 Malibu Canyon Road Malibu, California 90265-4799

(hereinafter referred to as ASSIGNEE), is desirous of acquiring entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that ASSIGNOR, for good and valuable consideration, hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries, including the right to claim priority under any applicable provisions of the International Convention and the Patent Cooperation Treaty and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by any application, continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

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Subscribed and executed at:	<u> </u>
On: 10/5/12	
Inventor:	<b>&gt;</b>
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PATENT REEL: 039034 FRAME: 0806

RECORDED: 06/29/2016