

PATENT ASSIGNMENT COVER SHEET

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|---|-------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Hao Huang | 04/18/2014 |
| Yang Yue | 04/17/2014 |
| Nisar Ahmed | 04/18/2014 |
| Moshe J. Willner | 04/18/2014 |
| Yan Yan | 04/18/2014 |
| Yongxiong Ren | 04/18/2014 |
| Moshe Tur | 04/23/2014 |
| Alan E. Willner | 04/18/2014 |
| RECEIVING PARTY DATA | |
| Name: | UNIVERSITY OF SOUTHERN CALIFORNIA |
| Street Address: | 1150 SOUTH OLIVE STREET, SUITE 2300 |
| City: | LOS ANGELES |
| State/Country: | CALIFORNIA |
| Postal Code: | 90015 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14663392 |
| CORRESPONDENCE DATA | |
| Fax Number: | (877)769-7945 |
| <i>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.</i> | |
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| ATTORNEY DOCKET NUMBER: | 06666-0361001 |
| NAME OF SUBMITTER: | NANCY GRANT |
| SIGNATURE: | /Nancy Grant/ |

PATENT

| | |
|---------------------|------------|
| DATE SIGNED: | 04/07/2015 |
|---------------------|------------|

Total Attachments: 5

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ASSIGNMENT

For valuable consideration, we, HAO HUANG of Los Angeles, California, YANG YUE of Los Angeles, California, NISAR AHMED of Los Angeles, California, MOSHE WILLNER of Los Angeles, California, YAN YAN of Los Angeles, California, YONGXIONG REN of Los Angeles, California, MOSHE TUR of Tel Aviv, Israel, and ALAN E. WILLNER of Los Angeles, California, hereby assign to: University of Southern California, a corporation of California having a place of business at: 1150 South Olive Street, Suite 2300, Los Angeles, California 90015; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SYSTEMS AND TECHNIQUES FOR ORBITAL ANGULAR MOMENTUM BASED RECONFIGURABLE SWITCHING, filed 3/19/2014, and assigned U.S. Serial Number 61/955,703, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: _____

HAO HUANG

Date: 4/17/2014

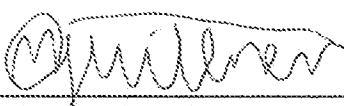
Yang Yue

YANG YUE

Date: _____

NISAR AHMED

Date: 04 / 18 / 2014



MOSHE WILLNER

Date: _____

YAN YAN

Date: _____

YONGXIONG REN

Date: _____

MOSHE TUR

Date: _____

ALAN E. WILLNER

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Date: _____

NISAR AHMED

Date: _____

MOSHE WILLNER


Date: _____

YAN YAN

Date: _____

YONGXIONG REN

Date: April 23, 2014



MOSHE TUR

Date: _____

ALAN E. WILLNER

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ASSIGNMENT

For valuable consideration, we, HAO HUANG of Los Angeles, California, YANG YUE of Los Angeles, California, NISAR AHMED of Los Angeles, California, MOSHE WILLNER of Los Angeles, California, YAN YAN of Los Angeles, California, YONGXIONG REN of Los Angeles, California, MOSHE TUR of Tel Aviv, Israel, and ALAN E. WILLNER of Los Angeles, California, hereby assign to: University of Southern California, a corporation of California having a place of business at: 1150 South Olive Street, Suite 2300, Los Angeles, California 90015; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SYSTEMS AND TECHNIQUES FOR ORBITAL ANGULAR MOMENTUM BASED RECONFIGURABLE SWITCHING, filed 3/19/2014, and assigned U.S. Serial Number 61/955,703, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 4/18/2014



HAO HUANG

Date: _____

YANG YUE

Date: 4/18/2014

w/ on amed

NISAR AHMED

Date: _____

MOSHE WILLNER

Date: 4/18/2014

[Signature]

YAN YAN

Date: 4/18/2014

[Signature]

YONGXIONG REN

Date: _____

MOSHE TUR

Date: 4/18/2014

[Signature]

ALAN E. WILLNER

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