502015442 08/06/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Seng-Tiong HO | 06/18/2012 |
| Qian WANG | 06/01/2012 |
| Yadong WANG | 06/01/2012 |

RECEIVING PARTY DATA

| Name: | Agency for Science, Technology and Research |
|-----------------|---|
| Street Address: | 1 Fusionopolis Way #20-10 |
| City: | Connexis |
| State/Country: | SINGAPORE |
| Postal Code: | 138632 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13476187 |

CORRESPONDENCE DATA

 Fax Number:
 9495886172

 Phone:
 949-588-6171

Email: pto@crockett-crockett.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: CROCKETT & CROCKETT, P.C.

Address Line 1: 26020 ACERO
Address Line 2: SUITE 200

Address Line 4: MISSION VIEJO, CALIFORNIA 92691

| ATTORNEY DOCKET NUMBER: | 213/517 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | Michelle Campero |

Total Attachments: 3

source=213-517_Assignment#page1.tif source=213-517_Assignment#page2.tif source=213-517_Assignment#page3.tif

> PATENT REEL: 028732 FRAME: 0193

OF \$40.00 134/618/

502015442

Assignment of Invention and Patent Application

| | | elemanter About Nok(s)), hereby sem, assign, transfer, and |
|--|---|--|
| | or Science, Technology and Resea | |
| | signs (hereinafter ASSIGNEE) al | 5 |
| (A) ASSIGNOR'S righ Waveguide Structure | t, title and interest in and to the in | vention entitled: |
| invented by ASSIGNO | R(s); Seng-Tiong HO, Qian WAN | IG and Yadong WANG |
| (B) the application for | United States patent therefor, sign | |
| (C) any patent or reiss | ues of any patent that may be gran | sted thereon; and |
| (D) any applications w ASSIGNOR authorizes spaces above. ASSIGN resulting patent(s) to A | thich are continuations, continuations, continuations ASSIGNEE To enter the date of OR also authorizes and requests the SSIGNEE. | ons-in-part, substitutes, or divisions of said application. signature and/or Serial Number and Filing Date in the he Commissioner of Patents and Trademarks to issue any |
| and interest in and to sa conveys to ASSIGNEE ASSIGNOR agrees to a ASSIGNEE'S expense, resulting patent of the I | tid invention in each and every co all priority rights resulting from t execute all papers, give any requir as ASSIGNEE may require to en Jnited States and countries foreign | tets over unto ASSIGNEE, ASSIGNOR'S entire right, title untry foreign to the United States; and ASSIGNOR further the above-identified application for United States patent. ed testimony and perform other lawful acts, at able ASSIGNEE to perfect ASSIGNEE'S interest in any in thereto, and to acquire, hold, enforce, convey, and uphold treof, and ASSIGNEE'S interest therein. |
| Date: 18 June 2013 | First Inventor | Seng-Tiong HO |
| Date: | Second Inventor | Qian WANG |
| Date: | Third Inventor | Yadong WANG |
| Date: | Fourth Inventor | |
| Date: | Fifth Inventor | - With the second secon |
| Date: | Sixth Inventor | Marie de la companya |
| Date: | Seventh Inventor | 19199-200 |
| Date: | Eighth Inventor | 11. |
| Date: | Ninth Inventor | |

Tenth Inventor

Date: ___

CROCKETT & CROCKETT 2012

PATENT REEL: 028732 FRAME: 0194

Assignment of Invention and Patent Application

| | | ereinafter ASSIGNOR(s)), hereby sell, assign, transfer, and | |
|--|---|--|--|
| set over unto Agency for Science, Technology and Research | | | |
| and its successors or assigns (hereinafter ASSIGNEE) all of the following: | | | |
| (A) ASSIGNOR'S righ Waveguide Structure | (A) ASSIGNOR'S right, title and interest in and to the invention entitled: | | |
| | R(s); Seng-Tiong HO, Oian WAI | NG and Yadong WANG | |
| filed herew | | med by ASSIGNOR, mber_13/476,187; filed May 21, 2012; | |
| | | | |
| | ues of any patent that may be grar | · · · · · · · · · · · · · · · · · · · | |
| ASSIGNOR authorizes spaces above. ASSIGN resulting patent(s) to A | ASSIGNEE To enter the date of OR also authorizes and requests to SSIGNEE. | ons-in-part, substitutes, or divisions of said application. signature and/or Serial Number and Filing Date in the he Commissioner of Patents and Trademarks to issue any | |
| and interest in and to sa conveys to ASSIGNEE ASSIGNOR agrees to c ASSIGNEE'S expense, resulting patent of the U | nid invention in each and every co call priority rights resulting from execute all papers, give any requir as ASSIGNEE may require to en Jnited States and countries foreig | sets over unto ASSIGNEE, ASSIGNOR'S entire right, title untry foreign to the United States; and ASSIGNOR further the above-identified application for United States patent. red testimony and perform other lawful acts, at able ASSIGNEE to perfect ASSIGNEE'S interest in any n thereto, and to acquire, hold, enforce, convey, and uphold breof, and ASSIGNEE'S interest therein. | |
| Date: | First Inventor | | |
| Date: 01-06-2012 | Second Inventor | Seng-Tiong HO Qian WANG | |
| Date: | Third Inventor | | |
| Date: | Fourth Inventor | Yadong WANG | |
| Date: | Fifth Inventor | | |
| Date: | . Sixth Inventor | | |
| Date: | Seventh Inventor | | |
| Date: | Eighth Inventor | | |
| Date: | Ninth Inventor | | |
| | | | |

Tenth Inventor

Date: _

CROCKETT & CROCKETT 2012

PATENT REEL: 028732 FRAME: 0195

213/517

Assignment of Invention and Patent Application

| • | exposignisments of Title Citere | M and I atent Application |
|--|--|---|
| For value received, I (We), | the undersigned inventors (he | ereinafter ASSIGNOR(s)), hereby sell, assign, transfer, and |
| set over unto Agency for Sc | ience, Technology and Resea | arch |
| | s (hereinafter ASSIGNEE) al | |
| Waveguide Structure | e and interest in and to the in | |
| invented by ASSIGNOR(s) | Seng-Tiong HO, Ojan WAN | NG and Yadong WANG |
| filed herewith, | ed States patent therefor, sign or | ned by ASSIGNOR, mber_13/476,187; filed <u>May 21, 2012;</u> |
| | | |
| | f any patent that may be gran | |
| ASSIGNOR authorizes ASS | SIGNEE To enter the date of also authorizes and requests t | ons-in-part, substitutes, or divisions of said application. signature and/or Serial Number and Piling Date in the he Commissioner of Patents and Trademarks to issue any |
| and interest in and to said in conveys to ASSIGNEE all p ASSIGNOR agrees to execu ASSIGNEE'S expense, as A resulting patent of the Unite | vention in each and every co priority rights resulting from to the all papers, give any requir SSIGNEE may require to end d States and countries foreign | sets over unto ASSIGNEE, ASSIGNOR'S entire right, title untry foreign to the United States; and ASSIGNOR furthe the above-identified application for United States patent. red testimony and perform other lawful acts, at able ASSIGNEE to perfect ASSIGNEE'S interest in any in thereto, and to acquire, hold, enforce, convey, and uphole reof, and ASSIGNEE'S interest therein. |
| Date: | First Inventor | |
| | | Seng-Tiong HO |
| Date: | Second Inventor | |
| Date: 0/06/2012 | Third Inventor | Qian WANG |
| * ' | 11110 111701101 | Yadong-WANG |
| Date: | Fourth Inventor | |
| Date: | . Fifth Inventor | |
| Date: | Sixth Inventor | |
| Date: | Seventh Inventor | |
| Date: | Eighth Inventor | |
| | | |

Tenth Inventor

CROCKETT & CROCKETT 2012

PATENT REEL: 028732 FRAME: 0196

RECORDED: 08/06/2012

Date: _____