

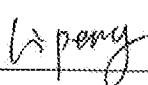
PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

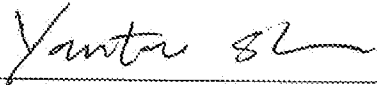
EPAS ID: PAT7200688

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| PENG LI | 08/02/2019 |
| YANTAO SHEN | 08/02/2019 |
| XINGGUANG DUAN | 08/02/2019 |
| YUNHUI LIU | 08/02/2019 |
| RECEIVING PARTY DATA | |
| Name: | HARBIN INSTITUTE OF TECHNOLOGY, SHENZHEN |
| Street Address: | XILI UNIVERSITY TOWN, NANSHAN DISTRICT |
| City: | SHENZHEN, GUANGDONG |
| State/Country: | CHINA |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16558295 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
| Phone: | 617-580-1293 |
| Email: | qqw1911@outlook.com |
| Correspondent Name: | QIANQIAN WU |
| Address Line 1: | 64 BANK ST |
| Address Line 4: | ABINGTON, MASSACHUSETTS 02351 |
| NAME OF SUBMITTER: | QIANQIAN WU |
| SIGNATURE: | /QQW/ |
| DATE SIGNED: | 03/01/2022 |
| Total Attachments: 4 | |
| source=ASSIGNMENTS-4inventors#page1.tif | |
| source=ASSIGNMENTS-4inventors#page2.tif | |
| source=ASSIGNMENTS-4inventors#page3.tif | |
| source=ASSIGNMENTS-4inventors#page4.tif | |

ASSIGNMENT BY INVENTOR(S) OF U.S. PATENT APPLICATION

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Attorney Docket Number | WK18-TCD-HGD-US-1178 |
| Title of Invention | ROTARY JOINT ELECTROMAGNETIC LOCKING DEVICE AND ROTARY JOINT |
| <p>WHEREAS, I believe that I am the original inventor or an original joint inventor (referred to as ASSIGNOR below) of a claimed invention in the application identified by the title above.</p> <p>WHEREAS, Harbin Institute of Technology, Shenzhen having a postal address of XIII University Town, Nanshan District, Shenzhen City, Guangdong</p> <p>(referred to as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States.</p> <p>NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to said invention and application throughout the United States of America, including any and all patents granted on any division, continuation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or supplemental examination thereof.</p> <p>ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent applications in the United States for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.</p> <p>ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof, and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.</p> <p>ASSIGNOR authorizes Practitioners associated with the Customer Number 133.035 to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.</p> | |
| <p>LEGAL NAME OF ASSIGNOR</p> <p>Assignor: <u>LI, Peng</u> Date: <u>08/02/2019</u></p> <p>Signature: <u></u></p> | |

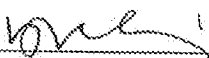
ASSIGNMENT BY INVENTOR(S) OF U.S. PATENT APPLICATION

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Attorney Docket Number | WK19-TCD-HGD-US-1178 |
| Title of Invention | ROTARY JOINT ELECTROMAGNETIC LOCKING DEVICE AND ROTARY JOINT |
| <p>WHEREAS, I believe that I am the original inventor or an original joint inventor (referred to as ASSIGNOR below) of a claimed invention in the application identified by the title above.</p> <p>WHEREAS, Harbin Institute of Technology, Shenzhen having a postal address of Xili University Town, Nanshan District, Shenzhen City, Guangdong</p> <p>(referred to as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States:</p> <p>NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to said invention and application throughout the United States of America, including any and all patents granted on any division, continuation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or supplemental examination thereof.</p> <p>ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent applications in the United States for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.</p> <p>ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof, and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.</p> <p>ASSIGNOR authorizes Practitioners associated with the Customer Number 133,035 to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.</p> | |
| LEGAL NAME OF ASSIGNOR | |
| Assignor: _____ | SHEN, Yantao _____ |
| | Date: 08/02/2019 _____ |
| Signature: _____ |  |

ASSIGNMENT BY INVENTOR(S) OF U.S. PATENT APPLICATION

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Attorney Docket Number | WK19-TCD-HGD-US-1178 |
| Title of Invention | ROTARY JOINT ELECTROMAGNETIC LOCKING DEVICE AND ROTARY JOINT |
| <p>WHEREAS, I believe that I am the original inventor or an original joint inventor (referred to as ASSIGNOR below) of a claimed invention in the application identified by the title above.</p> <p>WHEREAS, Harbin Institute of Technology, Shenzhen</p> <p>having a postal address of Xili University Town, Nanshan District, Shenzhen City, Guangdong</p> <p>(referred to as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States:</p> <p>NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to said invention and application throughout the United States of America, including any and all patents granted on any division, continuation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or supplemental examination thereof.</p> <p>ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent applications in the United States for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.</p> <p>ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof, and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.</p> <p>ASSIGNOR authorizes Practitioners associated with the Customer Number 133,035 to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.</p> | |
| <p>LEGAL NAME OF ASSIGNOR</p> <p>Assignor: <u>DUAN, Xingguang</u> Date: <u>08/02/2019</u></p> <p>Signature: <u>Xing guang Duan</u></p> | |

ASSIGNMENT BY INVENTOR(S) OF U.S. PATENT APPLICATION

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Attorney Docket Number | WK19-TCD-HGD-US-1178 |
| Title of Invention | ROTARY JOINT ELECTROMAGNETIC LOCKING DEVICE AND ROTARY JOINT |
| <p>WHEREAS, I believe that I am the original inventor or an original joint inventor (referred to as ASSIGNOR below) of a claimed invention in the application identified by the title above.</p> <p>WHEREAS, Harbin Institute of Technology, Shenzhen having a postal address of Xili University Town, Nanshan District, Shenzhen City, Guangdong</p> <p>(referred to as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States:</p> <p>NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to said invention and application throughout the United States of America, including any and all patents granted on any division, continuation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or supplemental examination thereof.</p> <p>ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent applications in the United States for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.</p> <p>ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof, and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.</p> <p>ASSIGNOR authorizes Practitioners associated with the Customer Number 133,035 to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.</p> | |
| LEGAL NAME OF ASSIGNOR | |
| Assignor: _____ | LIU, Yunhui _____ Date: 08/02/2019 |
| Signature: _____  | |