507382013 07/13/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7428938

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
| FEI LIANG | 04/20/2022 |
| XIUYUN CHEN | 04/20/2022 |
| LINGYU SUN | 04/20/2022 |
| JINGJUN DU | 04/20/2022 |
| PENG ZHONG | 04/20/2022 |
| TINGXIU HOU | 04/20/2022 |
| JIAN ZHAO | 04/20/2022 |

RECEIVING PARTY DATA

| Name: | BEIJING BOE OPTOELECTRONICS TECHNOLOGY CO., LTD. | |
|--------------------------|--|--|
| Street Address: | NO.8 XIHUANZHONGLU, BDA | |
| City: | BEIJING | |
| State/Country: | CHINA | |
| Postal Code: | 100176 | |
| | | |
| Name: | BOE TECHNOLOGY GROUP CO., LTD. | |
| Name: Street Address: | BOE TECHNOLOGY GROUP CO., LTD. NO.10 JIUXIANQIAO RD., CHAOYANG DISTRICT | |
| | , | |
| Street Address: | NO.10 JIUXIANQIAO RD., CHAOYANG DISTRICT | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17792445 |

CORRESPONDENCE DATA

Fax Number:

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.

Email:docketing@dority-manning.comCorrespondent Name:DORITY & MANNING, P.A.Address Line 1:POST OFFICE BOX 1449

Address Line 4: GREENVILLE, SOUTH CAROLINA 29602-1449

PATENT REEL: 060491 FRAME: 0970

| ATTORNEY DOCKET NUMBER: | ZBSD-266-PCT-US |
|-------------------------|------------------|
| | |
| NAME OF SUBMITTER: | ANAND K. PATEL |
| SIGNATURE: | /Anand K. Patel/ |
| DATE SIGNED: | 07/13/2022 |
| Total Attachments: 14 | |

source=ZBSD-266-PCT-US_Combined_Declaration_and_Assignment#page1.tif source=ZBSD-266-PCT-US Combined_Declaration_and_Assignment#page2.tif source=ZBSD-266-PCT-US Combined Declaration and Assignment#page3.tif source=ZBSD-266-PCT-US_Combined_Declaration_and_Assignment#page4.tif source=ZBSD-266-PCT-US_Combined_Declaration_and_Assignment#page5.tif source=ZBSD-266-PCT-US Combined Declaration and Assignment#page6.tif source=ZBSD-266-PCT-US Combined Declaration and Assignment#page7.tif source=ZBSD-266-PCT-US_Combined_Declaration_and_Assignment#page8.tif source=ZBSD-266-PCT-US Combined Declaration and Assignment#page9.tif source=ZBSD-266-PCT-US Combined Declaration and Assignment#page10.tif source=ZBSD-266-PCT-US Combined Declaration and Assignment#page11.tif source=ZBSD-266-PCT-US_Combined_Declaration_and_Assignment#page12.tif source=ZBSD-266-PCT-US Combined Declaration and Assignment#page13.tif source=ZBSD-266-PCT-US Combined Declaration and Assignment#page14.tif

| Title of Invention | |
|--------------------------------|--|
| As a below | named inventor, I hereby declare that: |
| This declar | ☑ The attached application, or |
| The above-i | United States application or PCT international application number filed on dentified application was made or authorized to be made by me. |
| I believe tha in the applic | t I am the original inventor or an original joint inventor of a claimed invention ation. |
| | nowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) th. |

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR"), do hereby:

SELL, ASSIGN AND TRANSFER to Beijing BOE Optoelectronics Technology Co., Ltd. , having a place of business at No.8 Xihuanzhonglu, BDA, Beijing, 100176, P.R.China , and BOE TECHNOLOGY GROUP CO., LTD. , having a place of business at No.10 Jiuxiangiao Rd., Chaoyang District, Beijing, 100015, P.R. China (each hereinafter referred to as "ASSIGNEE"), the entire right, title and interest for the United States and all foreign countries in and to any and all inventions which are disclosed in the above-identified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to PCT/CN2021/104521 filed on Jul.05,2021; which in turn claims priority to CN202010811924.5 filed on Aug. 13,2020; such applications and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such inventions; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such inventions to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such inventions; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such inventions and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such inventions in the Assignee, and for securing, maintaining and enforcing proper patent protection for such inventions;

TO BE BINDING on the heirs; assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the agents and attorneys of _____ the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

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STATEMENTS

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part.

| LEGAL N | AME OF INV | ENTOR | | | | | |
|-----------|------------|----------|---------|-------|------------------|---|--|
| Inventor: | Fei LIANG |) | | _0py. | <u>)0, 20</u> 22 | *************************************** | |
| Signature | <u>Fei</u> | LIANG | ******* | | | | |

| Title of Invention | |
|--|---|
| As a below name | d inventor, I hereby declare that: |
| This declaration | |
| is directed to: | |
| The above-identific | numberfiled on ed application was made or authorized to be made by me. |
| I believe that I am in the application. | the original inventor or an original joint inventor of a claimed invention |
| | dge that any willful false statement made in this declaration is 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) |

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AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such inventions to the Assignee;

-

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

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| LEGAL NA | ME OF INVENTOR | ₹ | | | | | |
|------------|----------------|----------|-------|------|-----|--|--|
| Inventor | Xiuyun CHEN | | Date: | Dor. | 20, | ************************************** | |
| Signature: | X TU VILLAN | CHEN | | | | | |
| | | <u>-</u> | | | | | |

| Title of Invention | | | | | | |
|-----------------------|---------------|----------------|----------------|---------------|---------------------------------------|---------|
| As a below | named inver | itor, I hereby | declare that: | | | |
| This declar | ation | | | | | |
| is directed | to: | The attached | application, c | or | | |
| | | Jnited States | | r PCT interna | ational applicatio | n |
| The above-i | | *********** | nade or autho | | nade by me. | • |
| believe tha | | ginal inventor | or an original | joint invento | or of a claimed in | vention |
| | under 18 U.S. | | | | is declaration is more than five (| 5) |

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| LEGAL NAME OF INVENTOR | | 30 |
|------------------------|--------------------|----|
| Inventor: Lingyu SUN | Date: Apr. 20, 202 | V |
| Signature: Limpyu SUN | # € ±0 | |

| | * | |
|-----------------------|------------------------------|--|
| Title of Invention | | |
| As a belov | v named inventor, I hereby | declare that: |
| This decla | ration | |
| is directed | to: | application, or |
| | United States | application or PCT international application |
| The above- | identified application was n | nade or authorized to be made by me. |
| believe the | | or an original joint inventor of a claimed invention |
| | under 18 U.S.C. 1001 by fi | alse statement made in this declaration is ne or imprisonment of not more than five (5) |

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| LEGAL NAME OF INVENTOR | | |
|------------------------|-------|---------------|
| Inventor: Jingjun DU | Date: | Apr. 20, 2022 |
| Signature Jinjiun DU | | |

| Title of Invention | | |
|--|---------------------|--|
| As a below named | d inventor, I herel | by declare that: |
| This declaration | | |
| is directed to: | ▼ The attach | ed application, or |
| | | tes application or PCT international application |
| The above-identifie | d application was | s made or authorized to be made by me. |
| believe that I am I in the application. | he original inven | tor or an original joint inventor of a claimed invention |
| | | ul false statement made in this declaration is y fine or imprisonment of not more than five (5) |

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1

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| LEGAL NAME OF INVENTOR | · . |
|------------------------|---------------------|
| Inveritor: Peng ZHONG | Date: Apy. 20, 2022 |
| Signature Dans ZHONG | |

| Title of Invention | | |
|--------------------------------|------------------------------|--|
| As a below | named inventor, I hereby de | eclare that: |
| This declar | ation | |
| is directed t | to: 🔽 The attached a | pplication, or |
| | | application or PCT international application |
| The above-id | dentified application was ma | ade or authorized to be made by me. |
| believe that in the applica | | r an original joint inventor of a claimed invention |
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| LEGAL NAME OF INVENTOR | |
|------------------------|--|
| Inventor: Tingxiu HQU | |
| Signature: TWS/W HOU | |

| Title of Invention | | | | | | |
|--------------------------------|---|----------------------|-----------------|---------|----------|--------|
| As a below | named inventor, I hereby | y declare that: | | | | |
| This declar | ration | | | | | |
| is directed | to: The attache ⊢ | d application, or | | | | |
| | number | | d on no b | | | |
| The above-i | identified application was | made or authoriz | ed to be made | e by me | | |
| I believe tha in the applic | at I am the original invento cation. | or or an original jo | int inventor of | a claim | ned invi | ention |
| | knowledge that any willful under 18 U.S.C. 1001 by oth. | | | | | |

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR"), do hereby:

SELL, ASSIGN AND TRANSFER to Beijing BOE Optoelectronics Technology Co., Ltd. , having a place of business at No.8 Xihuanzhonglu, BDA, Beijing, 100176, P.R.China, and BOE TECHNOLOGY GROUP CO., LTD., having a place of business at No.10 Jiuxiangiao Rd., Chaoyang District, Beijing, 100015, P.R. China (each hereinafter referred to as "ASSIGNEE"), the entire right, title and interest for the United States and all foreign countries in and to any and all inventions which are disclosed in the above-identified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to PCT/CN2021/104521 filed on Jul.05,2021; which in turn claims priority to CN202010811924.5 filed on Aug.13,2020; such applications and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such inventions; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States:

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such inventions to the Assignee;

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WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such inventions; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such inventions and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such inventions in the Assignee, and for securing, maintaining and enforcing proper patent protection for such inventions;

TO BE BINDING on the heirs; assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the agents and attorneys of _____ the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

The assignment of said invention is effective as of the earlier of (1) the date of execution shown below or (2) the filing date of the first filed of said patent applications.

STATEMENTS

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part.

| LEGAL NAME OF INVENTOR | | |
|---------------------------|-----------------|------------|
| | 1980-400 . Voca | 0900 00000 |
| Inventor:Jian ZHAO | Date PATY JA | , ०४०४८ |
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| Signature J''**-~~~~~ | | |