PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7529165

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| TIANKUO SHI | 05/20/2021 |
| WEI SUN | 05/20/2021 |
| YIFAN HOU | 05/20/2021 |
| ZHIHUA JI | 05/20/2021 |
| XIAOMANG ZHANG | 05/20/2021 |
| RUI LIU | 05/20/2021 |
| JIGANG SUN | 05/20/2021 |
| YUXIN BI | 05/20/2021 |
| XUE DONG | 05/20/2021 |

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17610581 |

CORRESPONDENCE DATA

Fax Number: (877)389-6779

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: 7709277802

Email: docketing@pkhip.com

Correspondent Name: PERILLA KNOX & HILDEBRANDT LLP

Address Line 1: 44 MILTON AVE

Address Line 2: SUITE 144

Address Line 4: ALPHARETTA, GEORGIA 30009

| ATTORNEY DOCKET NUMBER: | 100604-1110 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | KENNETH A. KNOX |
| SIGNATURE: | /Kenneth A. Knox/ |
| DATE SIGNED: | 09/09/2022 |

Total Attachments: 18

source=100604-1110 Executed Decs-Assigns 1#page1.tif source=100604-1110 Executed Decs-Assigns 1#page2.tif source=100604-1110 Executed Decs-Assigns 1#page3.tif source=100604-1110 Executed Decs-Assigns 1#page4.tif source=100604-1110 Executed Decs-Assigns 1#page5.tif source=100604-1110 Executed Decs-Assigns 1#page6.tif source=100604-1110 Executed Decs-Assigns_1#page7.tif source=100604-1110 Executed Decs-Assigns_1#page8.tif source=100604-1110 Executed Decs-Assigns 1#page9.tif source=100604-1110 Executed Decs-Assigns 1#page10.tif source=100604-1110 Executed Decs-Assigns_1#page11.tif source=100604-1110 Executed Decs-Assigns_1#page12.tif source=100604-1110 Executed Decs-Assigns_1#page13.tif source=100604-1110 Executed Decs-Assigns 1#page14.tif source=100604-1110 Executed Decs-Assigns_1#page15.tif source=100604-1110 Executed Decs-Assigns 1#page16.tif source=100604-1110 Executed Decs-Assigns 1#page17.tif source=100604-1110 Executed Decs-Assigns 1#page18.tif

| Title of Invention | DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| As a below | named inventor, I hereby declare that: |
| This decla | II The atteched annimation or |
| The above- | numberfiled on identified application was made or authorized to be made by me. |
| i believe tha in the applic | at I am the original inventor or an original joint inventor of a claimed invention ation. |
| | knowledge 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) of the control |

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 Juxiangiao 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/CN2020/138380 filed on Dec.22,2020; 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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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.

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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 NAME OF INVENTOR | |
|---------------------------|----------------------|
| Inventor Tiankuo SHI | Date May . 20 . 2021 |
| Signature Tiankuo SHL | |

| Title of Invention | DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| As a below | named inventor, I hereby declare that: |
| This decla | to: The attached application, or |
| The above- | United States application or PCT international application numberfiled onidentified application was made or authorized to be made by me. |
| believe the | at I am the original inventor or an original joint inventor of a claimed invention ation. |
| I hereby act punishable years, or bo | knowledge 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) with. |

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| LEGAL NAME OF INVENTOR | |
|------------------------|---------------------|
| Inventor: Wei SUN | Date: May 10 , 1011 |
| Signature: Wei SUN | |

| Title of Invention | DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| As a below | named inventor, I hereby declare that: |
| This decla | W The attached application or |
| * | United States application or PCT international application number filed on |
| | identified application was made or authorized to be made by me. It I am the original inventor or an original joint inventor of a claimed invention ation. |
| I hereby aci punishable years, or bo | knowledge 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. |

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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;

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| LEGAL NAME OF INVENTOR | |
|---------------------------|---------------------|
| Inventor <u>Yifan HÖU</u> | Date May. 20 , 2021 |
| Signature: Yifon HOU | |

| Title of Invention | DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| As a below | named inventor, I hereby declare that: |
| This decla | C The attached annication or |
| The above- | United States application or PCT international application number filed on identified application was made or authorized to be made by me. |
| | at I am the original inventor or an original joint inventor of a claimed invention |
| I hereby ac punishable years, or bo | knowledge 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) oth. |

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| LEGAL NAME OF INVENTOR | |
|------------------------|---------------------|
| Inventor: Zhihua JI | Date: May 10 , 1011 |
| Signature: Zkikaa JI | |

| Title of Invention | DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| As a below | named inventor, I hereby declare that: |
| This decla | C The attached annication or |
| The above- | United States application or PCT international application number filed on identified application was made or authorized to be made by me. |
| believe than the applic | at I am the original inventor or an original joint inventor of a claimed invention ation. |
| I hereby act punishable years, or bo | knowledge 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) with. |

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| LEGAL NAME OF INVENTOR | |
|-------------------------------|---------------------|
| Inventor: Xisomang ZHANG | Date: May, 20, 2021 |
| Signature: Xiaomany ZHANG | |

| Title of Invention | DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| As a below | named inventor, I hereby declare that: |
| This decla | C The attached application or |
| | United States application or PCT international application numberfiled on |
| The above- | identified application was made or authorized to be made by me. |
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| LEGAL NAME OF INVENTOR | |
|------------------------|----------------------|
| Inventor Rui LIU | Outo May . 20 , 2021 |
| Signature Rui LIU | |

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| As a below | named inventor, I hereby declare that: |
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| LEGAL NAME OF INVENTOR | |
|--------------------------------------------|--|
| Inventor: Jigang SUN Date: May . 20 , 2021 | |
| Signature: Jigang SUN | |

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| As a below | named inventor, I hereby declare that: |
| This decla | W The attached application or |
| The above | United States application or PCT international application number filed on dentified application was made or authorized to be made by me. |
| | at I am the original inventor or an original joint inventor of a claimed invention |
| I hereby aci punishable years, or bo | knowledge 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 Xibuanzhonglu. BDA. Beijing 100176, P.R.China and BOE TECHNOLOGY GROUP CO., LTD. having a place of business at No.10 Jiuxianqiao Rd., Chaovang 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/CN2020/138380 filed on Dec.22,2020; 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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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 | |
|------------------------|--------------------|
| inventor: Yuxin BI | Date May. 20, 2021 |
| Signature Yuxin BI | |

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| Title of Invention | DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME | |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|
| As a below named inventor, I hereby declare that: | | |
| This decla | W The attached annication or | |
| | United States application or PCT international application number filed on | |
| i ne above- | identified application was made or authorized to be made by me. | |
| believe than the application | at I am the original inventor or an original joint inventor of a claimed invention ation. | |
| I hereby act punishable years, or bo | knowledge 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) with. | |

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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;

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COVENANT, when requested and at the expense of the Assignce, 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 Assignce all facts known to the undersigned relating to such inventions and the history thereof; and generally do everything possible which the Assignce shall consider desirable for vesting title to such inventions in the Assignee, and for securing, maintaining and enforcing proper patent protection for such inventions;

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|---|---------------------------------------|----|
| | LEGAL NAME OF INVENTOR | |
| | Inventor: Xue DONG Date May 10 , 2021 | |
| | Signature: Xue DOMG | |

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