

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	BOE TECHNOLOGY GROUP CO., LTD.	08/23/2022
<b>RECEIVING PARTY DATA</b>		
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<b>PROPERTY NUMBERS Total: 4</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	16638535	
<b>Application Number:</b>	16344531	
<b>Application Number:</b>	16082340	
<b>Application Number:</b>	16484623	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
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<b>DATE SIGNED:</b>	09/13/2022	
<b>Total Attachments: 8</b>		
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**PATENT**

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## ASSIGNMENT

**THIS ASSIGNMENT** is made and entered into by and between **BOE Technology Group Co., Ltd.**, ("Assignors") having an address of No.10 Jiuxianqiao Rd., Chaoyang District, Beijing, 100015, P.R. China, and **Beijing BOE Technology Development Co., Ltd.** ("Assignee") having an address of Room 407, Building 1, No.9 Dize Road, BDA, Beijing, 100176, P.R. China.

**WHEREAS**, Assignor wishes to confirm assignment to Assignee and assign to Assignee if such assignment has not already been effected, and Assignee wishes to acquire from Assignor, the entire right, and title in and to all Intellectual Property set forth herein that is owned by the Assignor in the event the Assignee has not already acquired these rights.

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby transfers and assigns to Assignee its entire right and title in and to the patents and patent applications listed on Schedule A hereto and hereby confirm its transfer and assign in the event it has not already been made;

**AND** Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks, the Register of Copyrights of the United States, and any other applicable governmental authority or registrar (including in any applicable foreign country), to record Assignee as assignee and owner of the Trademarks, Patents and/or Copyrights.

*[Signature page follows]*

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by their duly authorized representatives.

BOE TECHNOLOGY GROUP CO., LTD.

By: Xinguo LI  
Name: Xinguo LI  
Title: Head of Technology & IP anagement Center / Vice President  
Date: August 23, 2022

ACCEPTED BY: Beijing BOE Technology Development Co., Ltd.

By: Xinguo LI.  
Name: Xinguo LI  
Title: General Manager  
Date: August 23, 2022

## **SCHEDULE A**

No	US Application Number	Filed Date	Title
1	16/860,429	2020-04-28	SUPPORT SUBSTRATE FOR FLEXIBLE DISPLAY DEVICE, AND FLEXIBLE DISPLAY DEVICE
2	16/638,535	2019-06-06	ARRAY SUBSTRATE, DISPLAY PANEL, AND DISPLAY A PPARATUS
3	16/643,109	2019-09-02	DIGITAL VOLTAGE REGULATOR AND METHOD OF RE GULATING VOLTAGE
4	16/869,866	2020-05-08	DISPLAY SUBSTRATE, FABRICATING METHOD THERE OF AND DISPLAY DEVICE
5	16/880,219	2020-05-21	OPTICAL ADHESIVE LAYER, STRETCHABLE DISPLAY D EVICE AND PREPARING METHOD FOR OPTICAL ADHE SIVE LAYER
6	16/886,035	2020-05-28	Display panel, method for manufacturing the same and display device
7	16/883,013	2020-05-26	STRETCHABLE DISPLAY SUBSTRATE AND STRETCHABLE DISPLAY DEVICE
8	16/858,170	2020-04-24	PIXEL CIRCUIT, DRIVING METHOD THEREOF AND DIS PLAY DEVICE
9	16/759,551	2019-09-25	FLEXIBLE PANEL, MANUFACTURING METHOD THERE OF AND DISPLAY APPARATUS
10	16/963,777	2019-12-25	ELECTRON TRANSPORT LAYER INCLUDING STACKED ELECTRON TRANSPORT FILMS, AND METHOD OF MA NUFACTURING THE SAME, LIGHT- EMITTING DEVICE AND DISPLAY APPARATUS
11	16/772,272	2019-12-19	DISPLAY SUBSTRATE AND MANUFACTURING METHO D THEREOF, DISPLAY DEVICE

12	16/650,944	2019-03-27	DISPLAY DEVICE AND MANUFACTURING METHOD THEREOF FOR REDUCING COLOR CAST BETWEEN VIEW ANGLES
13	16/754,775	2019-09-16	METHOD FOR PREPARING ARRAY SUBSTRATE, DISPLAY PANEL AND EVAPORATION APPARATUS
14	16/759,197	2019-04-25	DISPLAY PANEL, MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE
15	16/893,472	2020-06-05	DISPLAY PANEL AND METHOD FOR MANUFACTURING SAME, BONDING METHOD, AND DISPLAY DEVICE
16	16/958,949	2019-06-14	DISPLAY SUBSTRATE AND METHOD FOR MANUFACTURING SAME, AND DISPLAY DEVICE
17	16/763,513	2019-10-14	DISPLAY PANEL AND MANUFACTURING METHOD THEREFOR, AND DISPLAY DEVICE
18	16/767,812	2019-11-18	DISPLAY DEVICE AND METHOD FOR MANUFACTURING DISPLAY DEVICE
19	17/047,750	2019-12-23	ARRAY SUBSTRATE, MANUFACTURING METHOD THEREOF AND DISPLAY DEVICE
20	16/975,761	2019-12-23	PIXEL STRUCTURE, DISPLAY PANEL AND DISPLAY APPARATUS
21	16/959,480	2019-08-23	LIGHT-EMITTING DIODE DISPLAY PANEL AND MANUFACTURING METHOD THEREOF, DISPLAY DEVICE
22	16/944,973	2020-07-31	METHOD FOR DRIVING SILICON-BASED DRIVING BACK PLATE AND DISPLAY APPARATUS
23	16/910,678	2020-06-24	DISPLAY PANEL, METHOD OF MANUFACTURING DISPLAY PANEL, AND DISPLAY APPARATUS
24	16/923,116	2020-07-08	Display Substrate and Preparation Method Thereof, and Display Apparatus

25	16/833,863	2020-03-30	OLED Substrate, Photo mask, And Method Of Manufacturing OLED Substrate
26	16/959,043	2019-08-27	DISPLAY SUBSTRATE AND MANUFACTURING METHOD THEREOF, DISPLAY DEVICE
27	16/958,967	2019-08-13	TOUCH PANEL, MANUFACTURING METHOD THEREOF, AND ELECTRONIC DEVICE
28	17/043,881	2020-04-14	ELECTROLUMINESCENT DEVICE, METHOD FOR MANUFACTURING THE SAME, METHOD FOR DETECTING THE SAME AND DISPLAY DEVICE
29	17/044,034	2020-04-16	TOUCH PANEL, FABRICATING METHOD THEREOF AND DISPLAY DEVICE
30	17/144,606	2019-07-26	DISPLAY PANEL AND DISPLAY DEVICE
31	16/633,014	2019-06-25	DISPLAY PANEL, MANUFACTURING METHOD THEREOF AND DISPLAY DEVICE
32	17/256,039	2019-11-08	ARRAY SUBSTRATE AND METHOD FOR MANUFACTURING SAME, DISPLAY PANEL, AND DISPLAY DEVICE
33	17/260,746	2020-03-31	PIXEL CIRCUIT AND DRIVING METHOD THEREOF, DISPLAY DEVICE AND DRIVING METHOD THEREOF
34	17/055,458	2020-03-06	DISPLAY SUBSTRATE AND METHOD FOR MANUFACTURING THE SAME, AND DISPLAY APPARATUS
35	17/280,874	2020-06-15	PIXEL DRIVING CIRCUIT AND DRIVING METHOD THEREOF AND DISPLAY DEVICE
36	17/254,863	2020-06-11	Touch Substrate, Preparation Method and Driving Method Thereof, and Touch Display Panel
37	17/040,952	2020-04-10	OLED DISPLAY SUBSTRATE AND MANUFACTURING METHOD THEREOF, OLED DISPLAY DEVICE, AND BRIGHTNESS COMPENSATION METHOD

38	17/269,416	2020-05-28	DISPLAY PANEL AND ELECTRONIC DEVICE
39	17/273,614	2020-07-16	PIXEL CIRCUIT AND DRIVING METHOD THEREFOR, DISPLAY SUBSTRATE, AND DISPLAY PANEL
40	17/245,134	2021-04-30	DISPLAY PANEL AND METHOD FOR MANUFACTURING THE SAME, DISPLAY DEVICE
41	17/329,359	2021-05-25	TOUCH-CONTROLLING BASE PLATE AND DISPLAYING DEVICE
42	17/059,508	2020-03-27	DISPLAY SUBSTRATE, DISPLAY PANEL AND DISPLAY DEVICE
43	17/418,771	2020-03-30	FLEXIBLE CIRCUIT BOARD AND MANUFACTURING METHOD, DISPLAY DEVICE, CIRCUIT BOARD STRUCTURE AND DISPLAY PANEL THEREOF
44	17/309,360	2020-08-12	ARRAY SUBSTRATE AND MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE
45	17/427,532	2021-01-19	PIXEL CIRCUIT, DISPLAY SUBSTRATE, DISPLAY PANEL AND PIXEL DRIVING METHOD
46	17/356,193	2021-06-23	PIXEL STRUCTURE, DRIVING METHOD AND DISPLAY DEVICE
47	17/552,570	2021-12-16	DISPLAY PANEL AND DISPLAY DEVICE
48	17/420,054	2020-08-26	PIXEL CIRCUIT AND DRIVING METHOD THEREFOR, ARRAY SUBSTRATE, DISPLAY PANEL, AND ELECTRONIC DEVICE
49	17/420,120	2020-09-28	DISPLAY DEVICE, GATE DRIVE CIRCUIT, SHIFT REGISTER CIRCUIT AND DRIVING METHOD THEREOF FOR PREVENTING LEAKAGE CURRENTS
50	17/229,112	2019-04-30	APPARATUS FOR DETECTING ELECTROMAGNETIC TOUCH



51	17/417,282	2020-11-04	GATE DRIVING CIRCUIT, DISPLAY DEVICE AND REPAIR METHOD
52	16/333,042	2018-08-07	DISPLAY SUBSTRATE, ORGANIC LIGHT EMITTING DEVICE AND FILM LAYER VAPOR-DEPOSITION DETECTING METHOD, DISPLAY DEVICE
53	16/514,774	2019-07-17	DISPLAY SUBSTRATE AND METHOD FOR MANUFACTURING THE SAME, DISPLAY APPARATUS
54	16/484,983	2019-01-15	DISPLAY PANEL AND DRIVING METHOD THEREOF AND DISPLAY DEVICE
55	16/492,370	2019-01-18	DISPLAY PANEL AND METHOD FOR MANUFACTURING THE SAME, DISPLAY DEVICE AND CONTROL METHOD
56	16/489,441	2019-02-28	DISPLAY SUBSTRATE MOTHERBOARD, MANUFACTURING METHOD AND CUTTING METHOD THEREOF, DISPLAY SUBSTRATE AND DISPLAY DEVICE
57	16/305,566	2018-02-14	PACKAGE STRUCTURE, DISPLAY PANEL, DISPLAY DEVICE, AND METHOD FOR DETECTING PACKAGE STRUCTURE
58	16/408,773	2019-05-10	Organic light emitting transistor, temperature sensing device and temperature detecting method
59	16/562,568	2019-09-06	OLED ELEMENT, DISPLAY PANEL, AND DISPLAY DEVICE
60	16/484,599	2019-02-27	CONDUCTIVE FILM, PRODUCTION METHOD THEREOF, AND DISPLAY APPARATUS
61	16/492,839	2019-04-01	ARRAY SUBSTRATE, METHOD OF DRIVING ARRAY SUBSTRATE, AND DISPLAY DEVICE
62	16/344,531	2018-11-02	DISPLAY PANEL, METHOD OF DRIVING DISPLAY PANEL, DISPLAY DEVICE CONTAINING DISPLAY PANEL
63	16/341,949	2018-11-21	PACKAGING STRUCTURE OF ELECTROLUMINESCENT ELEMENT, METHOD FOR MANUFACTURING THE SAME, DISPLAY DEVICE

64	16/492,935	2019-01-24	A DISPLAY PANEL WITH A LIGHT-BLOCKING LAYER
65	16/341,679	2018-10-29	Driving Method for Display Panel, Driving Circuit, Display Panel and Display Device
66	16/082,340	2018-03-26	DISPLAY SUBSTRATE, DISPLAY APPARATUS, AND METHOD OF MANUFACTURING THEREOF
67	16/475,429	2018-12-06	PACKAGING METHOD, ELECTRONIC DEVICE, AND PACKAGING APPARATUS
68	16/484,623	2019-03-06	DISPLAY APPARATUS AND PREPARATION METHOD THEREOF
69	16/327,200	2018-04-13	POROUS GRAPHENE FILM, ITS MANUFACTURING METHOD AND ELECTRONIC PRODUCT
70	16/713,295	2019-12-13	PIXEL DEFINING LAYER AND MANUFACTURING METHOD THEREOF, ARRAY SUBSTRATE AND DISPLAY DEVICE
71	16/624,285	2019-08-01	DISPLAY DEVICE
72	16/610,713	2018-10-25	ELECTRONIC PAPER DISPLAY SCREEN, DISPLAY DEVICE AND BONDING METHOD
73	16/613,333	2019-04-04	DISPLAY PANEL, DISPLAY DEVICE AND MANUFACTURING METHOD THEREOF
74	16/412,644	2019-05-15	OPTICAL FINGERPRINT IDENTIFICATION UNIT, DISPLAY PANEL, METHOD FOR MANUFACTURING OPTICAL FINGERPRINT IDENTIFICATION UNIT AND METHOD FOR IDENTIFYING FINGERPRINT
75	16/465,951	2018-10-29	Display Panel, Method for Manufacturing the Same and Display Device
76	16/622,266	2019-08-06	PIXEL DRIVING CIRCUIT, DRIVING METHOD THEREOF, AND DISPLAY DEVICE