

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BOE TECHNOLOGY GROUP CO., LTD.	09/20/2022
RECEIVING PARTY DATA	
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State/Country:	CHINA
Postal Code:	100176
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	17419842
Application Number:	17261652
Application Number:	17333114
Application Number:	17462608
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SIGNATURE:	/Jason A. Jennings/
DATE SIGNED:	10/13/2022
Total Attachments: 8	
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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: Sep. 20, 2022

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

By: Xinguo LI.

Name: Xinguo LI

Title: General Manager

Date: sep. 20, 2022

SCHEDULE A

No	US Application Number	Filed Date	Title
1	16/096,587	2018-03-12	ARRAY SUBSTRATE, MANUFACTURING METHOD THEREOF, DISPLAY PANEL
2	16/339,076	2018-07-26	TOUCH SUBSTRATE, MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE
3	15/780,323	2017-10-13	LIGHT FIELD DISPLAY DEVICE
4	16/491,409	2019-04-03	DISPLAY PANEL AND PREPARATION METHOD THEREOF
5	16/665,410	2019-10-28	ARRAY SUBSTRATE, METHOD FOR FABRICATING THE SAME DISPLAY PANEL, AND DISPLAY DEVICE
6	16/072,822	2017-11-29	DISPLAY SUBSTRATE, METHOD FOR DRIVING THE SAME AND DISPLAY PANEL
7	16/073,048	2018-01-09	DISPLAY SUBSTRATE HAVING WAVELENGTH-ACTUATABLE COLOR FILTER, DISPLAY APPARATUS HAVING THE SAME, AND METHOD OF OPERATING DISPLAY APPARATUS
8	16/338,799	2018-09-06	BACKLIGHT MODULE AND DISPLAY DEVICE
9	16/333,997	2018-10-31	DISPLAY BACKPLANE AND MANUFACTURING METHOD THEREOF, AND DISPLAY PANEL
10	16/397,498	2019-04-29	TOUCH CONTROL DEVICE, TOUCH CONTROL DISPLAY SUBSTRATE AND DISPLAY APPARATUS
11	16/466,737	2018-11-01	ORGANIC LIGHT EMITTING DIODE AND MANUFACTURING METHOD THEREOF, DISPLAY PANEL
12	16/638,609	2018-10-31	DISPLAY PANEL AND CUTTING METHOD THEREFOR, DISPLAY DEVICE
13	16/182,950	2018-11-07	DETECTION TARGET POSITIONING DEVICE, DETECTION TARGET POSITIONING METHOD, AND SIGHT TRACKING DEVICE
14	16/337,042	2018-09-14	PIXEL CIRCUIT AND METHOD FOR DRIVING PIXEL CIRCUIT, DISPLAY PANEL AND ELECTRONIC DEVICE
15	16/509,323	2019-07-11	Orthopedics Restoration Fixation Device
16	16/605,204	2019-05-13	ACOUSTIC WAVE SIGNAL READING CIRCUITS, CONTROL METHODS, AND ACOUSTIC WAVE SIGNAL READING APPARATUSES
17	16/066,799	2017-10-24	DEVICE AND METHOD OF OBJECTIVE IDENTIFICATION AND DRIVING ASSISTANCE DEVICE
18	16/605,414	2019-04-18	PIXEL CIRCUIT, DISPLAY PANEL, AND TEMPERATURE COMPENSATION METHOD FOR DISPLAY PANEL
19	15/953,234	2018-04-13	Data Processing Method, Medical Term Processing System and Medical Diagnostic System
20	16/316,615	2018-05-10	METHOD FOR MANUFACTURING ARRAY SUBSTRATE, INTERMEDIATE ARRAY SUBSTRATE PRODUCT, AND ARRAY SUBSTRATE
21	16/322,826	2018-06-06	OLED DISPLAY PANEL AND MANUFACTURING METHOD THEREOF, OLED DISPLAY DEVICE

22	16/472,012	2018-12-05	PACIFICATION METHOD, APPARATUS, AND SYSTEM BASED ON EMOTION RECOGNITION, COMPUTER DEVICE AND COMPUTER READABLE STORAGE MEDIUM
23	16/485,763	2019-01-15	IMAGE INFORMATION GENERATION METHOD, PULSE WAVE MEASUREMENT SYSTEM AND ELECTRONIC DEVICE
24	16/618,869	2019-03-25	ARRAY SUBSTRATE AND DISPLAY APPARATUS
25	16/643,619	2019-01-22	DISPLAY PANEL, DISPLAY DEVICE, AND METHOD FOR MANUFACTURING DISPLAY PANEL
26	16/768,388	2019-12-25	EYEGGLASS AND METHOD FOR ADJUSTING INCIDENT LIGHT INTO EYES
27	16/639,193	2019-06-21	BONE REPAIR MATERIAL AND PREPARATION METHOD THEREOF, AND BIOLOGICAL COMPOSITE SCAFFOLD
28	16/714,445	2019-12-13	SPEED SENSOR, DEVICE FOR MEASURING SPEED AND METHOD THEREOF
29	16/068,493	2017-12-15	TRANSFER DEVICE, TRANSFER METHOD AND VACUUM EVAPORATION DEVICE
30	16/390,452	2019-04-22	PROTECTIVE FILM FOR DISPLAY, PRODUCTION METHOD THEREOF, AND STRETCHABLE DISPLAY APPARATUS
31	16/606,957	2019-03-22	SIGNAL RECEIVING METHOD AND APPARATUS, AND COMPUTER-READABLE STORAGE MEDIUM AND ELECTRONIC DEVICE
32	16/335,572	2018-10-17	LIGHT-EMITTING DIODE CHIP, METHOD FOR FABRICATING THE SAME, BACKLIGHT MODULE, AND DISPLAY DEVICE
33	16/599,947	2019-10-11	DISPLAY DEVICE AND METHOD FOR CONTROLLING THE SAME
34	16/490,194	2019-03-21	DOUBLE-SIDED DISPLAY PANEL AND MANUFACTURE METHOD THEREOF, AND DOUBLE-SIDED DISPLAY DEVICE
35	16/496,646	2019-02-25	ADJUSTABLE POLARIZATION CONVERTER AND ELECTRONIC DEVICE
36	16/484,631	2018-09-19	LIGHT EMITTING DIODE AND FABRICATING METHOD THEREOF, DISPLAY SUBSTRATE, AND DISPLAY APPARATUS
37	16/621,351	2019-06-19	ELECTROCHEMICAL DETECTION ELECTRODE AND MANUFACTURING METHOD THEREOF, ELECTROCHEMICAL DETECTION APPARATUS
38	16/605,974	2019-04-18	PHOTONIC CRYSTAL, DISPLAY PANEL, LIGHT CONVERSION DEVICE AND GLASSES
39	16/642,804	2019-09-12	FINGERPRINT RECOGNITION MODULE, DRIVING METHOD THEREOF, MANUFACTURING METHOD THEREOF AND DISPLAY DEVICE
40	16/536,541	2019-08-09	BEZEL MEMBER, CONTROL METHOD THEREOF AND BEZEL DEVICE
41	16/880,592	2020-05-21	DISPLAY SUBSTRATE AND METHOD OF MANUFACTURING THE SAME, AND DISPLAY PANEL
42	16/652,233	2019-08-28	NAMED ENTITY RECOGNITION METHOD, NAMED ENTITY RECOGNITION DEVICE, EQUIPMENT AND MEDIUM
43	17/043,205	2020-03-17	FLEXIBLE DISPLAY PANEL, FLEXIBLE DISPLAY DEVICE AND DEFORMATION DETECTION METHOD THEREOF

44	16/062,313	2017-11-06	FLEXIBLE SUBSTRATE, TOUCH DISPLAY SUBSTRATE, MANUFACTURING METHODS THEREOF, AND TOUCH DISPLAY DEVICE
45	15/944,058	2018-04-03	CHARGING DOCK, ELECTRONIC PRODUCT, CHARGING SYSTEM AND CHARGING METHOD
46	16/632,931	2019-01-02	MICROFLUIDIC DEVICE AND DETECTION METHOD THEREFOR AND MICROFLUIDIC DETECTION ASSEMBLY
47	16/626,779	2018-12-03	INTEGRATED PHOTO-SENSING DETECTION DISPLAY APPARATUS AND METHOD OF FABRICATING INTEGRATED PHOTO-SENSING DETECTION DISPLAY APPARATUS
48	16/932,902	2020-07-20	ARRAY SUBSTRATE, MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE
49	16/908,759	2020-06-23	Virtual Tourism Method, Client, Server, System, Acquisition Device, and Medium
50	17/254,649	2020-03-24	TOUCH SUBSTRATE AND TOUCH DISPLAY DEVICE
51	16/651,581	2019-04-29	CELL DETECTION METHOD AND CELL DETECTION DEVICE
52	16/769,565	2019-09-24	DISPLAY DEVICE
53	16/756,144	2019-09-24	WIRE STRUCTURE, DISPLAY PANEL, DISPLAY DEVICE AND MANUFACTURING METHOD
54	16/825,172	2020-03-20	BONDING METHOD
55	16/862,225	2020-04-29	FLEXIBLE DISPLAY PANEL, METHOD FOR MANUFACTURING THE SAME AND DISPLAY DEVICE
56	16/640,195	2019-05-09	POLARIZING DEVICE AND METHOD FOR PREPARING THE SAME, DISPLAY SUBSTRATE AND DISPLAY DEVICE
57	16/981,921	2020-04-17	DISPLAY PANEL, METHOD OF MANUFACTURING DISPLAY PANEL, AND MASK PLATE
58	17/040,485	2020-03-23	STRETCHABLE DISPLAY PANEL AND DISPLAY DEVICE
59	17/209,534	2021-03-23	BACKLIGHT ASSEMBLY AND DISPLAY DEVICE
60	17/041,495	2020-03-02	DISPLAY BACKPLATE AND MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE
61	16/765,056	2019-05-21	MANUFACTURING METHOD OF FLEXIBLE ELECTRONIC SUBSTRATE AND SUBSTRATE STRUCTURE
62	16/980,799	2019-11-04	ARRAY SUBSTRATE AND DISPLAY DEVICE
63	16/760,847	2019-09-17	METHOD AND DEVICE FOR OBJECT DETECTION
64	16/772,937	2019-08-23	DISPLAY PANEL AND MANUFACTURING METHOD THEREOF, DISPLAY DEVICE
65	16/760,009	2018-09-28	METHOD FOR MANUFACTURING ARRAY SUBSTRATE, ARRAY SUBSTRATE AND DISPLAY DEVICE
66	17/263,980	2020-07-23	DEVICE FOR STEREOSCOPIC DISPLAYING AND METHOD FOR CONTROLLING THE SAME
67	17/419,842	2020-07-21	TOUCH STRUCTURE, TOUCH DISPLAY PANEL AND TOUCH DISPLAY APPARATUS
68	16/469,366	2018-11-30	MICROFLUIDIC CONTROL CHIP, MICROFLUIDIC APPARATUS, AND MANUFACTURING METHOD THEREOF

69	16/641,756	2019-06-27	DIGITAL MICROFLUIDIC CHIP, METHOD FOR DRIVING THE SAME, AND DIGITAL MICROFLUIDIC DEVICE
70	17/256,186	2019-10-14	ARRAY SUBSTRATE AND DISPLAY DEVICE
71	17/191,045	2021-03-03	DISPLAYING BASE PLATE AND FABRICATING METHOD THEREOF, AND DISPLAY PANEL
72	17/212,058	2021-03-25	DISPLAY MODULE, DISPLAY DEVICE AND METHOD OF FORMING DISPLAY MODULE
73	16/769,687	2019-12-23	VISIBLE LIGHT COMMUNICATION APPARATUS AND FABRICATING METHOD THEREOF, VISIBLE LIGHT COMMUNICATION SYSTEM
74	17/054,902	2020-04-20	DISPLAY PANEL AND METHOD OF MANUFACTURING DISPLAY PANEL
75	17/261,652	2020-04-07	SHIFT REGISTER CIRCUIT AND METHOD OF DRIVING THE SAME, GATE DRIVER CIRCUIT, AND DISPLAY APPARATUS
76	17/333,114	2021-05-28	DRIVING CIRCUIT AND DRIVING METHOD THEREOF, DISPLAY PANEL, AND DISPLAY DEVICE
77	16/944,000	2020-07-30	LIGHT GUIDE PLATE, BACKLIGHT MODULE AND DISPLAY DEVICE
78	16/607,932	2019-04-30	DISPLAY SUBSTRATE, DISPLAY APPARATUS AND MANUFACTURING METHOD OF DISPLAY SUBSTRATE
79	16/619,249	2019-05-22	ARRAY SUBSTRATE AND MANUFACTURING METHOD THEREOF, DISPLAY PANEL AND DISPLAY APPARATUS
80	17/424,408	2020-09-10	PIXEL DRIVE CIRCUIT, PIXEL UNIT, DRIVING METHOD, ARRAY SUBSTRATE, AND DISPLAY APPARATUS
81	17/330,489	2021-05-26	DISPLAY PANEL, DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME
82	17/205,050	2021-03-18	DISPLAY APPARATUS AND METHOD FOR MANUFACTURING THE SAME
83	16/300,474	2018-04-25	POSITIVE PHOTORESIST COMPOSITION, VIA-FORMING METHOD, DISPLAY SUBSTRATE AND DISPLAY DEVICE
84	16/768,532	2019-12-13	METHOD FOR EVALUATING DEVICE ENVIRONMENTAL NOISE, APPARATUS, MEDIUM AND ELECTRONIC DEVICE
85	16/651,740	2019-03-26	SIGNAL TRANSMISSION METHOD, SIGNAL TRANSMISSION APPARATUS AND DISPLAY DEVICE
86	16/771,038	2019-06-25	ARRAY SUBSTRATE, DISPLAY APPARATUS, AND METHOD OF FABRICATING ARRAY SUBSTRATE
87	16/762,270	2019-12-04	DUAL-DIE DEVICE, DISPLAY DEVICE AND DRIVING METHOD OF DISPLAY DEVICE
88	17/358,052	2021-06-25	COUNTER SUBSTRATE AND DISPLAY PANEL
89	16/767,663	2019-07-12	DISPLAY SUBSTRATE AND PREPARATION METHOD THEREOF, AND DISPLAY DEVICE
90	17/251,867	2020-05-14	LIGHT ADJUSTING GLASS
91	16/825,922	2020-03-20	LIGHT EMITTING DEVICE AND METHOD FOR MANUFACTURING THE SAME, AND DISPLAY DEVICE
92	16/772,902	2019-08-26	THREE-DIMENSIONAL DISPLAY APPARATUS AND VIRTUAL REALITY DEVICE

93	17/095,606	2020-11-11	OUTPUT CONTROL CIRCUIT, METHOD FOR TRANSMITTING DATA AND ELECTRONIC DEVICE
94	17/265,806	2020-05-13	DRIVING SUBSTRATE, METHOD FOR PREPARING THE SAME, AND DISPLAY DEVICE
95	17/419,585	2020-09-03	TOUCH PANEL AND TOUCH DISPLAY DEVICE WITH SENSING ELECTRODES FORMED BY A PLURALITY OF CONDUCTIVE LINES
96	16/650,654	2019-02-22	BATTERY AND MANUFACTURING METHOD THEREOF
97	17/036,792	2020-09-29	AR DISPLAY DEVICE AND METHOD
98	16/619,227	2019-03-29	ARRAY SUBSTRATE, MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE
99	16/811,411	2020-03-06	DISPLAY DEVICE, METHOD FOR CONTROLLING THE SAME, AND DISPLAY PANEL
100	16/907,743	2020-06-22	ELECTRONIC SUBSTRATE, MANUFACTURING METHOD THEREOF, AND DISPLAY PANEL
101	17/255,516	2020-04-17	VARIABLE DIAPHRAGM AND CONTROL METHOD THEREOF
102	16/982,370	2020-04-21	DISPLAY SUBSTRATE, METHOD OF FORMING THE SAME AND DISPLAY DEVICE
103	16/766,583	2019-05-24	METHOD AND APPARATUS FOR CONTROLLING VIRTUAL REALITY DISPLAY DEVICE
104	16/957,659	2019-12-26	PIXEL STRUCTURE, METHOD OF DRIVING THE SAME AND DISPLAY DEVICE
105	17/280,103	2020-04-30	DISPLAY METHOD, DISPLAY CONTROL METHOD, DISPLAY TERMINAL, SERVER AND DISPLAY SYSTEM
106	17/218,256	2021-03-31	FINGERPRINT IDENTIFICATION SUBSTRATE AND DISPLAY DEVICE
107	17/334,413	2021-05-28	DISPLAY PANEL AND DISPLAY DEVICE
108	17/194,435	2020-01-08	METHOD FOR SENDING DRIVING DATA OF BACKLIGHT SOURCE, CONTROL CIRCUIT AND DISPLAY DEVICE
109	16/640,486	2019-07-24	DISPLAY PANEL AND METHOD OF MANUFACTURING THE SAME, AND DISPLAY DEVICE
110	17/417,318	2020-09-18	PIXEL CIRCUIT, DRIVING METHOD AND DISPLAY DEVICE
111	17/441,958	2021-02-18	LED ASSEMBLY, LIGHT SOURCE AND LIQUID CRYSTAL DISPLAY DEVICE
112	17/462,608	2021-08-31	TOUCH STRUCTURE AND DISPLAY APPARATUS
113	17/241,618	2019-05-01	IMAGE DISPLAY PROCESSING METHOD AND DEVICE, DISPLAY DEVICE AND NON-VOLATILE STORAGE MEDIUM
114	16/977,220	2019-11-29	PIXEL DRIVING CIRCUIT, METHOD OF DRIVING THE SAME AND DISPLAY DEVICE
115	17/187,205	2021-02-26	CURVED-SURFACE VEHICLE-MOUNTED DISPLAY MODULE, VEHICLE-MOUNTED DISPLAY DEVICE, AND VEHICLE
116	17/280,320	2020-05-28	TOUCH DISPLAY DEVICE, TOUCH RESPONSE METHOD AND SYSTEM THEREOF, AND STORAGE MEDIUM
117	16/640,186	2019-04-23	ARRAY SUBSTRATE, DISPLAY DEVICE AND METHOD FOR REPAIRING WIRE BREAK OF ARRAY SUBSTRATE
118	17/485,227	2021-09-24	TACTILE REPRODUCTION DEVICE, METHOD FOR DRIVING SAME, AND TACTILE REPRODUCTION APPARATUS

119	16/976,148	2019-12-16	FLAT PANEL DETECTION SUBSTRATE, FABRICATING METHOD THEREOF AND FLAT PANEL DETECTOR
120	16/963,976	2020-02-12	DISPLAY MODULE, MANUFACTURING METHOD THEREOF AND TOUCH DISPLAY DEVICE
121	17/428,178	2021-01-20	IMAGE PROCESSING METHOD, IMAGE PROCESSING CIRCUIT AND DISPLAY APPARATUS
122	16/959,362	2019-08-19	FOLDABLE DISPLAY SCREEN AND ASSEMBLING METHOD THEREOF, AND DISPLAY APPARATUS
123	17/035,388	2020-09-28	IMAGE ACQUISITION METHOD AND DEVICE, ELECTRONIC DEVICE AND STORAGE MEDIUM
124	17/258,892	2020-03-27	DISPLAY PANEL AND DRIVING METHOD THEREOF
125	17/280,283	2020-05-15	PIXEL DRIVING CIRCUIT, DISPLAY PANEL AND ELECTRONIC DEVICE
126	17/263,241	2020-05-26	ULTRASONIC FINGERPRINT RECOGNITION SENSOR AND MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE
127	17/228,811	2021-04-13	BLACK MATRIX STRUCTURE, METHOD FOR MANUFACTURING SAME, DISPLAY SUBSTRATE, AND DISPLAY DEVICE
128	17/355,776	2021-06-23	TOUCH PANEL, TOUCH RECOGNITION METHOD AND TOUCH DEVICE
129	16/335,097	2018-09-17	DISPLAY SUBSTRATE AND FABRICATION METHOD THEREOF, INK-JET PRINTING METHOD AND DISPLAY DEVICE
130	16/532,928	2019-08-06	OPTICAL FILM, DISPLAY SCREEN ASSEMBLY AND DISPLAY DEVICE
131	16/630,854	2019-04-30	AN ELECTRODE DRIVE CIRCUIT OF A MICROFLUIDIC APPARATUS, A MICROFLUIDIC APPARATUS AND A DRIVE METHOD
132	16/945,651	2020-07-31	DISPLAY PANEL AND DISPLAY APPARATUS
133	16/761,823	2019-03-26	ARRAY SUBSTRATE AND MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE AND MANUFACTURING METHOD THEREOF
134	16/765,152	2019-10-31	OPTICAL SUBSTRATE AND DISPLAY DEVICE
135	16/763,966	2019-12-23	STRETCH DISPLAY DEVICE AND PREPARATION METHOD
136	16/990,768	2020-08-11	SOURCE DRIVER, DRIVING SYSTEM, LIQUID CRYSTAL DISPLAY DEVICE AND CORRECTION METHOD THEREFOR
137	17/044,268	2019-09-03	LIGHT GUIDE SUBSTRATE AND METHOD OF MANUFACTURING THE SAME, OPPOSITE SUBSTRATE AND LIQUID CRYSTAL DISPLAY APPARATUS
138	17/333,089	2021-05-28	DISPLAYING BASE PLATE AND DISPLAYING DEVICE
139	17/347,970	2021-06-15	DISPLAYING BASE PLATE AND FABRICATING METHOD THEREOF, AND DISPLAYING DEVICE
140	17/417,440	2020-11-26	PIXEL CIRCUIT AND TESTING METHOD
141	17/435,364	2021-01-12	DISPLAY SUBSTRATE AND METHOD FOR FORMING DISPLAY SUBSTRATE, AND DISPLAY DEVICE