

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BOE TECHNOLOGY GROUP CO., LTD.	07/26/2022
RECEIVING PARTY DATA	
Name:	BEIJING BOE TECHNOLOGY DEVELOPMENT CO., LTD.
Street Address:	ROOM 407, BUILDING 1, NO. 9 DIZE ROAD, BDA
City:	BEIJING
State/Country:	CHINA
Postal Code:	100176
PROPERTY NUMBERS Total: 8	
Property Type	Number
Application Number:	16630199
Application Number:	16335862
Application Number:	16074976
Application Number:	16485719
Application Number:	16316236
Application Number:	16964848
Application Number:	16648758
Application Number:	16651497
CORRESPONDENCE DATA	
Fax Number:	(312)463-5001
<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:	312-463-5000
Email:	bwptopat@bannerwitcoff.com, bodom@bannerwitcoff.com
Correspondent Name:	BANNER & WITCOFF, LTD.
Address Line 1:	71 SOUTH WACKER DRIVE
Address Line 2:	SUITE 3600
Address Line 4:	CHICAGO, ILLINOIS 60606
ATTORNEY DOCKET NUMBER:	008357.00001
NAME OF SUBMITTER:	W GARLAND PHILLIPS
SIGNATURE:	/W Garland Phillips/

PATENT

DATE SIGNED:

07/29/2022

Total Attachments: 19

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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: July 26, 2022

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

By: Xinguo LI
Name: Xinguo LI
Title: General Manager
Date: July 26, 2022

SCHEDULE A

NO	US Application Number	Filed Date	Title
1	16/338,521	2018-11-09	METHOD, SYSTEM AND CONTROL DEVICE FOR CONTROLLING DISPLAY OF AUGMENTED REALITY DEVICE, AND AUGMENTED REALITY DEVICE
2	16/497,509	2019-03-27	FLEXIBLE DISPLAY PANEL, METHOD FOR FABRICATING THE SAME, AND DISPLAY DEVICE
3	17/003,872	2020-08-26	DISPLAY PANEL AND MANUFACTURING METHOD THEREFOR
4	16/826,196	2020-03-21	METHOD FOR MANUFACTURING FINGERPRINT RECOGNITION MODULE, FINGERPRINT RECOGNITION MODULE, AND DISPLAY DEVICE
5	17/263,305	2020-03-31	DISPLAY PANEL AND DISPLAY DEVICE
6	16/483,210	2018-12-27	PIXEL ARRANGEMENT STRUCTURE, DISPLAY METHOD AND PREPARING METHOD OF PIXEL ARRANGEMENT STRUCTURE, AND DISPLAY SUBSTRATE
7	16/770,655	2019-06-13	MASS TRANSFER METHOD AND SYSTEM FOR MICRO LIGHT EMITTING DIODES
8	16/489,578	2019-03-21	MONITORING APPARATUS, VEHICLE, MONITORING METHOD AND INFORMATION PROCESSING APPARATUS
9	16/316,998	2018-06-15	VEHICLE INFORMATION DISPLAY APPARATUS, SYSTEM AND METHOD
10	16/339,180	2018-08-27	DISPLAY PANEL, METHOD FOR FABRICATING THE SAME, AND DISPLAY DEVICE
11	17/225,077	2021-04-07	Display Panel and Preparation Method Thereof, and Display Apparatus
12	16/240,022	2019-01-04	SMART PATCH AND METHOD FOR FABRICATING THE SAME
13	16/484,621	2019-01-25	PIXEL CIRCUIT AND METHOD OF DRIVING THE SAME, DISPLAY DEVICE
14	17/530,101	2021-11-18	PIXEL CIRCUIT, PIXEL DRIVING METHOD AND DISPLAY DEVICE

15	16/630,199	2019-06-05	ULTRASONIC SIGNAL DETECTING CIRCUIT, ULTRASONIC SIGNAL DETECTING METHOD, AND DISPLAY PANEL
16	16/772,312	2020-02-19	DISPLAY PANEL, DISPLAY METHOD THEREOF, AND DISPLAY APPARATUS
17	16/966,394	2020-01-17	FINGERPRINT IDENTIFICATION MODULE, MANUFACTURING METHOD THEREOF AND ELECTRONIC DEVICE
18	16/076,451	2018-01-23	TRASH SORTING AND RECYCLING METHOD, TRASH SORTING DEVICE, AND TRASH SORTING AND RECYCLING SYSTEM
19	16/457,843	2019-06-28	TADF POLYMER AND QUANTUM DOT MATERIAL, METHODS OF PREPARING THE SAME, AND APPLICATIONS THEREOF
20	16/500,656	2019-03-25	COMMODITY RECOMMENDATION METHOD AND COMMODITY RECOMMENDATION DEVICE
21	17/040,964	2020-03-18	QUANTUM DOT ELECTROLUMINESCENT ELEMENT, DISPLAY PANEL AND DISPLAY DEVICE
22	16/643,464	2019-03-11	MICROFLUIDIC CHANNEL AND PREPARATION METHOD AND OPERATION METHOD THEREOF
23	16/986,540	2020-08-06	DISPLAY APPARATUS AND DISPLAY SYSTEM FOR DISPLAYING LOCAL INFORMATION AND REMOTE INFORMATION
24	16/633,075	2019-07-25	FLEXIBLE DISPLAY DEVICE
25	16/614,813	2019-03-27	WIRE LAYOUT OF PIXEL DRIVING CIRCUIT, DISPLAY PANEL, AND DISPLAY DEVICE
26	16/499,148	2019-03-11	MAKEUP SCHEME RECOMMENDATION METHOD AND DEVICE, CLOUD DEVICE, AND ELECTRONIC DEVICE
27	17/265,246	2020-03-12	PIXEL CIRCUIT, DRIVING METHOD THEREOF AND DISPLAY DEVICE
28	16/983,763	2020-08-03	DISPLAY DEVICE ASSEMBLY HAVING MIRROR SURFACE
29	16/328,372	2018-07-02	PIXEL CIRCUIT, DRIVING METHOD THEREOF AND DISPLAY DEVICE
30	16/766,812	2019-12-13	DRIVE CIRCUIT AND DRIVE METHOD FOR DIMMING GLASS, AND DIMMING GLASS DEVICE
31	16/614,365	2019-04-30	SHIFT REGISTER CIRCUIT AND DISPLAY DEVICE

32	17/054,845	2019-12-06	ULTRASONIC FINGERPRINT IDENTIFICATION COMPONENT, FINGERPRINT IDENTIFICATION DEVICE AND FINGERPRINT IDENTIFICATION DRIVING METHOD
33	16/605,941	2019-03-18	CONTROL METHOD OF IGALLERY, CONTROL SYSTEM OF IGALLERY, AND COMPUTER READABLE STORAGE MEDIUM
34	16/305,712	2018-03-16	LIGAND-MODIFIED QUANTUM DOT COMPOSITION, LIGAND-MODIFIED QUANTUM DOT LAYER, PREPARATION METHODS THEREOF, QUANTUM DOT LIGHT EMITTING DIODE
35	16/915,131	2020-06-29	TARGET TRACKING METHOD, DEVICE, SYSTEM AND NON-TRANSITORY COMPUTER READABLE STORAGE MEDIUM
36	15/779,709	2017-09-12	METHOD AND APPARATUS FOR AUTOMATICALLY DISCOVERING MEDICAL KNOWLEDGE
37	16/464,240	2017-11-22	INFORMATION NOTIFICATION METHOD, APPARATUS AND SYSTEM
38	16/168,333	2018-10-23	COVER PLATE AND MANUFACTURING METHOD THEREOF, ELECTRONIC DEVICE
39	16/649,288	2019-03-29	PIXEL COMPENSATION CIRCUIT, DISPLAY PANEL, DRIVING METHOD AND DISPLAY DEVICE
40	16/337,536	2018-09-25	AUGMENTED REALITY DEVICE, AUGMENTED REALITY SYSTEM AND INFORMATION PROMPT METHOD THEREOF
41	17/254,397	2020-04-27	PROGRAMMABLE LOGIC DEVICE-BASED DATA PROCESSING APPARATUS AND DRIVING METHOD THEREFOR, AND DISPLAY APPARATUS
42	17/409,572	2021-08-23	STREAMING MEDIA DATA PROCESSING METHOD, PROCESSING SYSTEM AND STORAGE SERVER
43	16/336,995	2018-08-16	IMAGE PROCESSING METHOD, IMAGE PROCESSING DEVICE, AND TRAINING METHOD OF NEURAL NETWORK
44	16/973,526	2019-10-25	LIQUID CRYSTAL LENS AND METHOD FOR CONTROLLING THE SAME, AND LIQUID CRYSTAL GLASSES

45	16/835,722	2020-03-31	DISPLAY BACKPLANE, METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE USING THE SAME
46	16/764,081	2019-12-04	DISPLAY BACKPLATE AND FABRICATING METHOD THEREOF, AND DISPLAY APPARATUS
47	16/617,891	2019-01-29	Quantum Dot Light Emitting Diode and Method for Manufacturing the Same, and Display Panel
48	16/499,994	2019-04-10	PHOTODYNAMIC ENERGY ELECTRONIC LABEL, WORKING METHOD THEREOF, MANAGING METHOD AND MANAGING APPARATUS THEREOF
49	17/244,979	2021-04-30	Display panel and Preparation Method Thereof, and Display Apparatus
50	16/650,601	2019-10-14	ARRAY SUBSTRATE, DRIVING METHOD, ORGANIC LIGHT EMITTING DISPLAY PANEL AND DISPLAY DEVICE
51	17/179,699	2019-08-20	SHIFT REGISTER, DRIVING METHOD THEREOF, GATE DRIVING CIRCUIT AND DISPLAY DEVICE
52	17/275,068	2020-04-24	SHIFT REGISTER UNIT AND METHOD FOR DRIVING THE SAME, GATE DRIVING CIRCUIT AND DISPLAY DEVICE
53	16/958,120	2020-01-17	PHOTODIODE, METHOD FOR PREPARING THE SAME, AND ELECTRONIC DEVICE
54	16/767,456	2019-07-02	PIXEL DRIVING CIRCUIT, RELATED DRIVING METHOD, PIXEL CIRCUIT, AND DISPLAY PANEL
55	16/768,924	2019-12-04	METHOD FOR MANUFACTURING DISPLAY PANEL, DISPLAY PANEL, AND DISPLAY APPARATUS
56	17/048,705	2020-04-24	ROLLABLE DISPLAY DEVICE
57	17/265,325	2020-03-17	PIXEL CIRCUIT, DRIVING METHOD THEREOF AND DISPLAY DEVICE
58	16/917,527	2020-06-30	DISPLAY SUBSTRATE, MANUFACTURING METHOD THEREOF, DISPLAY PANEL, AND DISPLAY DEVICE
59	16/335,952	2018-09-19	GAZE-POINT DETERMINING METHOD, CONTRAST ADJUSTING METHOD, AND CONTRAST ADJUSTING APPARATUS, VIRTUAL REALITY DEVICE AND STORAGE MEDIUM
60	16/769,725	2019-08-20	ARRAY SUBSTRATE, DISPLAY APPARATUS, AND METHOD OF FABRICATING ARRAY SUBSTRATE

61	16/835,611	2020-03-31	ARRAY SUBSTRATE, DISPLAY PANEL AND DISPLAY DEVICE
62	17/337,687	2018-05-15	DISPLAY PANEL AND DISPLAY DEVICE
63	16/649,530	2019-09-27	DISPLAY PANEL, DISPLAY DEVICE AND METHOD FOR MANUFACTURING DISPLAY PANEL
64	17/043,745	2020-04-29	BACK-FILM STRUCTURE, FLEXIBLE DISPLAY PANEL AND DISPLAY DEVICE
65	17/054,617	2019-01-31	SUBSCRIPTION SERVER, SUBSCRIPTION TERMINAL, INFORMATION SUBSCRIPTION METHOD AND SYSTEM
66	16/631,824	2019-02-20	MACHINE-AIDED DIALOG SYSTEM AND MEDICAL CONDITION INQUIRY APPARATUS AND METHOD
67	17/236,926	2021-04-21	FINGERPRINT IDENTIFICATION METHOD, FINGERPRINT IDENTIFICATION STRUCTURE AND DISPLAY DEVICE
68	16/767,351	2019-12-18	SEMICONDUCTOR APPARATUS, PIXEL CIRCUIT AND CONTROL METHOD THEREOF
69	16/825,754	2020-03-20	METHOD, DEVICE AND SYSTEM FOR ENCRYPTING INTERACTIVE DATA
70	16/769,385	2019-08-12	DISPLAY APPARATUS AND METHOD OF FABRICATING DISPLAY APPARATUS
71	16/768,392	2019-03-21	METHOD OF DISPLAYING PRICE TAG INFORMATION, APPARATUS, AND SHELF SYSTEM
72	16/769,297	2019-03-29	OPTICAL COMMUNICATION DRIVE CIRCUIT AND METHOD, OPTICAL COMMUNICATION TRANSMITTER AND SYSTEM, AND VEHICLE
73	16/769,214	2019-07-31	ARRAY SUBSTRATE, DISPLAY APPARATUS, AND METHOD OF FABRICATING ARRAY SUBSTRATE
74	17/257,843	2020-03-27	Display Substrate, Display Method and Display device
75	17/491,127	2021-09-30	TOUCH CONTROL DISPLAY PANEL, MANUFACTURING METHOD THEREOF, TOUCH CONTROL DISPLAY SCREEN AND SPLICED SCREEN

76	16/616,962	2018-05-23	OBJECT TRACKING METHOD, OBJECT TRACKING APPARATUS, VEHICLE HAVING THE SAME, AND COMPUTER-PROGRAM PRODUCT
77	16/937,694	2020-07-24	AUTOMATIC QUESTION ANSWERING METHOD AND APPARATUS, STORAGE MEDIUM AND SERVER
78	16/345,854	2018-11-01	DISPLAY PANEL, METHOD OF DRIVING DISPLAY PANEL, AND DISPLAY DEVICE
79	16/964,127	2019-12-20	TRANSPARENT DISPLAY SUBSTRATE AND MANUFACTURING METHOD THEREFOR, AND TRANSPARENT DISPLAY PANEL
80	16/641,704	2019-01-22	VOICE CONTROL METHOD, VOICE CONTROL DEVICE, AND COMPUTER-EXECUTABLE NON-VOLATILE STORAGE MEDIUM
81	16/404,180	2019-05-06	UAV Operation Route Planning Method, UAV Pesticide Spreading Method and Device
82	16/029,256	2018-07-06	TONGUE-IMAGE-BASED DIAGNOSTIC SYSTEM AND DIAGNOSTIC METHOD
83	16/958,499	2019-11-01	REVERSE IMAGE SEARCH METHOD, APPARATUS AND APPLICATION SYSTEM
84	16/639,120	2019-03-27	DISPLAY SUBSTRATE, DISPLAY APPARATUS, AND METHOD OF FABRICATING DISPLAY SUBSTRATE
85	16/343,762	2018-09-03	DISPLAY APPARATUS AND PATTERN IDENTIFICATION METHOD THEREOF
86	17/050,380	2020-04-16	DISPLAY PANEL, METHOD OF MANUFACTURING THE SAME, METHOD OF DRIVING THE SAME AND DISPLAY DEVICE
87	16/335,862	2018-09-06	DISPLAY PANEL AND DISPLAY DEVICE
88	16/958,829	2019-12-25	ELECTROLUMINESCENT DISPLAY PANEL, METHOD FOR MANUFACTURING THE SAME, AND DISPLAY DEVICE
89	17/076,466	2020-10-21	OPTICALLY CLEAR ADHESIVE FILM AND FLEXIBLE APPARATUS
90	16/560,867	2019-09-04	DISPLAY SUBSTRATE, METHOD FOR MANUFACTURING THE SAME, AND DISPLAY DEVICE
91	16/767,175	2019-12-17	DISPLAY PANEL AND DISPLAY DEVICE

92	17/298,228	2020-07-15	DISPLAY PANEL, DISPLAY MODULE, AND DISPLAY DEVICE AND CONTROL METHOD THEREFOR
93	17/509,080	2021-10-25	Display Panel, Preparation Method thereof, and Display Apparatus
94	16/943,689	2020-07-30	DISPLAY SUBSTRATE, METHOD FOR FABRICATING THE SAME, AND DISPLAY DEVICE
95	16/648,706	2019-06-27	TEMPERATURE CONTROL METHOD AND TEMPERATURE CONTROL DEVICE
96	16/650,690	2019-10-08	DISPLAY SUBSTRATE, SPLICING SCREEN AND MANUFACTURING METHOD THEREOF
97	17/281,289	2020-01-13	LIQUID CRYSTAL PANEL AND DISPLAY DEVICE
98	16/444,332	2019-06-18	TOUCH SUBSTRATE, TOUCH SUBSTRATE DRIVING METHOD AND PREPARATION METHOD, AND TOUCH DEVICE
99	17/257,881	2019-12-17	QUEUING RECOMMENDATION METHOD AND DEVICE, TERMINAL AND COMPUTER READABLE STORAGE MEDIUM
100	16/892,233	2020-06-03	Panel for Fingerprint Identification, and Control Method thereof, and Apparatus for Fingerprint Identification
101	16/637,860	2019-07-16	DISTRIBUTED VOTING SYSTEM, METHOD, APPARATUS, COMPUTER DEVICE AND READABLE STORAGE MEDIUM
102	16/759,832	2019-06-11	OPTICAL SENSOR DEVICE, METHOD FOR FABRICATING THE SAME, DISPLAY DEVICE
103	16/959,400	2019-08-27	LIGHT-EMITTING DEVICE, METHOD OF MANUFACTURING THE SAME AND ELECTRONIC APPARATUS
104	16/769,210	2019-09-12	FINGERPRINT SENSING DISPLAY APPARATUS, METHOD OF USING FINGERPRINT SENSING DISPLAY APPARATUS, AND METHOD OF FABRICATING FINGERPRINT SENSING DISPLAY APPARATUS
105	16/343,765	2018-06-27	DISPLAY SUBSTRATE, MANUFACTURING METHOD THEREOF, AND DISPLAY APPARATUS

106	16/612,937	2019-06-24	MICROFLUIDIC APPARATUS, METHOD OF DETECTING SUBSTANCE IN MICROFLUIDIC APPARATUS, AND LIGHT EXTRACTION APPARATUS
107	16/633,493	2018-02-08	METHOD FOR CREATING RESOURCES AND CORRESPONDING REGISTRATION METHOD, SERVER, AND CLIENT DEVICE
108	16/766,774	2019-12-11	ARRAY SUBSTRATE AND MICRO TOTAL ANALYSIS DEVICE
109	17/271,530	2020-05-13	POSITIONING METHOD AND APPARATUS OF TARGET NODE IN WIRELESS AD HOC NETWORK, ELECTRONIC DEVICE, AND MEDIUM
110	16/346,815	2018-11-26	LIP LANGUAGE RECOGNITION METHOD AND MOBILE TERMINAL
111	17/331,922	2021-05-27	METHOD AND DEVICE FOR CONTROLLING BACKLIGHT BRIGHTNESS, AND DISPLAY DEVICE
112	17/243,915	2021-04-29	PIXEL CIRCUIT HAVING A PLURALITY OF ENABLE SIGNALS AND GATE SIGNALS IN OPPOSITE PHASE AND DRIVING METHOD THEREOF
113	16/279,258	2019-02-19	REHABILITATION TRAINING APPARATUS AND REHABILITATION TRAINING SYSTEM
114	16/070,035	2018-01-04	TOUCH PANEL AND MANUFACTURING METHOD THEREOF, DISPLAY PANEL AND DISPLAY DEVICE
115	16/074,976	2017-11-14	MANUFACTURING METHOD OF ARRAY SUBSTRATE, ARRAY SUBSTRATE AND DISPLAY DEVICE
116	16/099,915	2018-01-09	PRESSURE TRANSDUCER AND FABRICATION METHOD THEREOF
117	16/485,719	2019-01-24	SHIFT REGISTER UNIT, GATE DRIVING CIRCUIT, DISPLAY DEVICE, AND DRIVING METHOD
118	16/492,936	2019-02-02	DISPLAY PANEL, DISPLAY SUBSTRATE THEREOF AND METHOD OF MAKING THE SAME
119	15/743,253	2017-07-10	SMART BELT
120	16/320,390	2018-05-22	IMAGE PROCESSING METHOD, DRIVE DEVICE, DISPLAY PANEL AND WEARABLE DEVICE
121	16/344,930	2018-09-19	SPECTACLES
122	16/340,893	2018-11-05	DATA TRANSMISSION METHOD, DEVICE, SYSTEM AND DISPLAY DEVICE

123	16/334,573	2018-10-25	OPTICAL ASSEMBLY AND VIRTURE REALITY DEVICE
124	16/928,121	2020-07-14	DISPLAY PANEL, METHOD FOR PREPARING DISPLAY PANEL, AND DISPLAY DEVICE
125	16/605,588	2019-04-08	ARRAY SUBSTRATE AND MANUFACTURING METHOD THEREOF, DISPLAY PANEL AND ELECTRONIC DEVICE
126	16/335,350	2018-09-06	RENDERING METHOD, COMPUTER PRODUCT AND DISPLAY APPARATUS
127	15/934,833	2018-03-23	SHIFT REGISTER, DRIVING METHOD THEREOF, GATE DRIVING CIRCUIT, AND DISPLAY APPARATUS
128	16/937,813	2020-07-24	DISPLAY PANEL AND METHOD OF MANUFACTURING THE SAME, DISPLAY DEVICE
129	16/320,707	2018-04-24	DRIVING METHOD AND DRIVING CIRCUIT FOR BACK LIGHT, BACKLIGHT AND DISPLAY APPARATUS
130	16/739,476	2020-01-10	CAMERA CALIBRATION PLATE, CAMERA CALIBRATION METHOD AND DEVICE, AND IMAGE ACQUISITION SYSTEM
131	16/704,537	2019-12-05	PIXEL CIRCUIT, DRIVING METHOD THEREOF, ARRAY SUBSTRATE AND DISPLAY DEVICE
132	16/605,616	2019-03-20	COMPENSATION APPARATUS AND METHOD OF LIGHT-EMITTING DEVICE, DISPLAY DEVICE, DISPLAY SUBSTRATE AND FABRICATION METHOD THEREOF
133	16/605,217	2019-03-28	POWER SUPPLY TIME SEQUENCE CONTROL CIRCUIT AND CONTROL METHOD THEREOF, DISPLAY DRIVER CIRCUIT, AND DISPLAY DEVICE
134	16/634,309	2019-03-29	DETECTION CHIP, USING METHOD FOR THE SAME, AND REACTION SYSTEM
135	16/077,061	2018-02-07	A Touch Display Device
136	16/340,542	2018-08-14	METHOD FOR MANUFACTURING DISPLAY SUBSTRATE, DISPLAY SUBSTRATE AND DISPLAY DEVICE
137	16/338,811	2018-07-09	DRIVING METHOD AND DRIVING SYSTEM FOR DIGITAL MICROFLUIDIC CHIP
138	16/626,322	2019-05-05	THIN FILM TRANSISTOR, METHOD OF FABRICATING THIN FILM TRANSISTOR, AND DISPLAY APPARATUS HAVING THIN FILM TRANSISTOR

139	16/335,853	2018-08-08	PIXEL CIRCUIT AND DRIVING METHOD THEREOF, AND DISPLAY DEVICE
140	16/457,232	2019-06-28	LIGHT SOURCE MODULE, BACKLIGHT MODULE AND DISPLAY DEVICE
141	16/824,841	2020-03-20	DISPLAY PANEL, METHOD FOR MANUFACTURING THE SAME, DISPLAY DEVICE
142	16/885,456	2020-05-28	CAPACITOR, ARRAY SUBSTRATE AND METHOD FOR MANUFACTURING THE SAME, AND DISPLAY PANEL
143	16/804,874	2020-02-28	DISPLAY DEVICE AND TERMINAL DEVICE
144	16/626,306	2019-06-18	DISPLAY APPARATUS, COUNTER SUBSTRATE OF DISPLAY APPARATUS, METHOD OF FABRICATING DISPLAY APPARATUS
145	16/606,929	2019-02-28	ELECTROSTATIC DISCHARGE PROTECTION CIRCUIT, ARRAY SUBSTRATE AND DISPLAY DEVICE
146	16/339,419	2018-11-20	Drive control Method and Assembly, as well as Display Device
147	17/331,421	2021-05-26	ELECTRONIC DEVICE INCLUDING BONDED PARTS AND METHOD FOR DETECTING THE SAME
148	16/072,343	2017-12-20	DISPLAY DEVICE AND DRIVING METHOD THEREOF, DISPLAY SYSTEM AND DISPLAY METHOD THEREOF
149	16/305,928	2018-03-06	DISPLAY PANEL, MANUFACTURING METHOD THEREOF, DISPLAY DEVICE
150	16/316,236	2018-02-01	SHIFT REGISTER, GATE DRIVING CIRCUIT AND DRIVING METHOD FOR THE SAME, AND LIQUID CRYSTAL DISPLAY
151	16/864,517	2020-05-01	DISPLAY DEVICE
152	16/755,970	2019-05-14	DISPLAY SUBSTRATE, FINE METAL MASK SET AND MANUFACTURING METHOD THEREOF
153	16/606,895	2019-05-16	ARRAY SUBSTRATE AND MANUFACTURING METHOD THEREOF, DISPLAY DEVICE
154	16/641,754	2018-11-23	DISPLAY SUBSTRATE, METHOD FOR MANUFACTURING THE SAME, AND DISPLAY DEVICE
155	16/769,257	2019-05-31	METHOD AND APPARATUS FOR ADJUSTING SIGNAL FREQUENCY, DISPLAY DEVICE AND STORAGE MEDIUM

156	16/976,827	2019-11-29	DISPLAY SUBSTRATE AND MANUFACTURING METHOD THEREOF, DISPLAY DEVICE
157	16/332,645	2018-07-23	ARRAY SUBSTRATE, DISPLAY PANEL AND DISPLAY DEVICE
158	16/761,231	2019-10-28	DISPLAY SUBSTRATE, METHOD FOR PREPARING THE SAME, AND DISPLAY DEVICE
159	16/468,760	2018-12-14	THIN FILM TRANSISTOR, MANUFACTURING METHOD THEREOF, ARRAY SUBSTRATE AND ELECTRONIC DEVICE
160	16/490,784	2018-12-20	DISPLAY DEVICE, VIRTUAL REALITY EQUIPMENT, AND DRIVING METHOD
161	17/331,854	2021-05-27	TOUCH DISPLAY DEVICE, TOUCH DISPLAY PANEL AND MANUFACTURING METHOD THEREOF
162	16/638,523	2019-10-08	OPTICAL DETECTION PANEL, FABRICATING METHOD THEREOF AND DISPLAY APPARATUS
163	17/043,940	2020-01-20	WEARABLE DISPLAY APPARATUS AND DISPLAY CONTROL METHOD THEREOF
164	16/956,921	2019-08-08	GATE DRIVING UNIT, GATE DRIVING CIRCUIT, DISPLAY SUBSTRATE, DISPLAY PANEL AND DISPLAY DEVICE
165	16/977,512	2019-11-29	DISPLAY SUBSTRATE AND DISPLAY DEVICE
166	16/959,047	2019-08-01	DISPLAY DEVICE AND ASSEMBLY METHOD THEREOF
167	16/765,622	2019-12-16	ROAD SCREEN NETWORKING SYSTEM AND VEHICLE-MOUNTED UNIT
168	16/964,848	2020-02-12	DISPLAY PANEL AND FABRICATION METHOD THEREOF, AND DISPLAY APPARATUS
169	17/265,924	2020-07-01	DISPLAY PANEL AND DISPLAY DEVICE
170	16/330,827	2018-08-01	MULTI-PAGE DISPLAY SCREEN AND MOBILE PHONE INCLUDING THE SAME
171	16/917,924	2020-07-01	Touch Flexible Printed Circuit, Display Panel and Display Apparatus
172	16/765,052	2019-10-12	FLEXIBLE DISPLAY PANEL, METHOD FOR PACKAGING THE SAME, AND DISPLAY DEVICE
173	16/725,719	2016-09-30	OPTICAL FILTER AND MANUFACTURING METHOD THEREFOR, DISPLAY SUBSTRATE, AND DISPLAY APPARATUS

174	17/040,510	2020-03-18	METHOD OF FORMING ARRAY SUBSTRATE, ARRAY SUBSTRATE AND DISPLAY DEVICE
175	16/648,758	2019-05-13	DISPLAY PANEL, FABRICATION METHOD THEREFOR, AND DISPLAY DEVICE
176	16/498,777	2019-05-08	ARRAY SUBSTRATE, DISPLAY PANEL, METHOD OF FABRICATING DISPLAY PANEL, AND MOTHER SUBSTRATE
177	16/825,584	2020-03-20	MASK AND METHOD FOR MANUFACTURING THE SAME, LITHOGRAPHY METHOD, DISPLAY PANEL, DISPLAY DEVICE AND EXPOSURE DEVICE
178	17/275,549	2020-05-19	POWER MANAGEMENT DEVICE AND DISPLAY DEVICE
179	17/271,319	2020-07-22	ARRAY SUBSTRATE, DISPLAY PANEL AND DISPLAY DEVICE
180	17/287,486	2020-01-21	ARRAY SUBSTRATE AND DISPLAY PANEL
181	16/767,923	2019-12-17	THIN FILM TRANSISTOR, MANUFACTURING METHOD OF THIN FILM TRANSISTOR AND DISPLAY DEVICE
182	17/264,481	2020-05-29	DISPLAY PANEL BUFFERING STRUCTURE, DISPLAY SCREEN MODULE AND MANUFACTURING METHOD THEREFOR, AND TERMINAL DEVICE
183	17/242,435	2021-04-28	SMART GLASS AND LIGHT ADJUSTING METHOD THEREOF, LIGHT ADJUSTING DEVICE AND NON-TRANSITORY COMPUTER STORAGE MEDIUM
184	16/975,264	2019-11-28	ARRAY SUBSTRATE, DIMMING LIQUID CRYSTAL PANEL, AND DISPLAY PANEL
185	16/649,642	2019-04-18	SIGNAL CONTROLLING DEVICE, DISPLAY DRIVING DEVICE, DISPLAY APPARATUS AND DISPLAY DRIVING METHOD
186	16/956,886	2020-01-02	OPTICAL DISTORTION MEASURING APPARATUS AND OPTICAL DISTORTION MEASURING METHOD, IMAGE PROCESSING SYSTEM, ELECTRONIC APPARATUS AND DISPLAY APPARATUS
187	17/256,514	2020-03-16	DISPLAY SUBSTRATE, MANUFACTURING METHOD AND DISPLAY DEVICE

188	17/223,165	2021-04-06	CHIP-ON-FILM STRUCTURE, DISPLAYING BASE PLATE AND DISPLAYING DEVICE
189	17/316,733	2021-05-11	Back Light Unit, Display Unit and Display Apparatus
190	17/183,382	2021-02-24	Display Apparatus, Display device and Control Method Thereof, and Non-transient Computer-Readable Storage Medium
191	17/051,323	2020-03-02	ARRAY SUBSTRATE, MANUFACTURING METHOD THEREOF AND DISPLAY DEVICE
192	17/294,690	2020-08-20	Shift Register and Drive Method Therefor, and Gate Drive Circuit
193	17/356,802	2021-06-24	METHOD FOR DRIVING DISPLAY PANEL, DISPLAY MODULE AND DISPLAY DEVICE
194	17/290,484	2020-08-26	OPTICAL ASSEMBLY, LIQUID CRYSTAL DISPLAY PANEL, AND DISPLAY APPARATUS
195	16/975,445	2019-12-13	ARRAY SUBSTRATE, TOUCH DISPLAY PANEL, AND TOUCH DISPLAY DEVICE
196	17/043,187	2020-03-30	DISPLAY SUBSTRATE, METHOD FOR PREPARING THE SAME, AND DISPLAY PANEL
197	17/210,424	2021-03-23	Display Panel, Preparation Method thereof, and Display Apparatus
198	16/759,902	2019-05-14	DISPLAY PANEL, MANUFACTURING METHOD THEREOF, AND DISPLAY APPARATUS
199	17/425,431	2021-01-13	SHIFT REGISTER, DRIVING METHOD THEREOF, GATE DRIVING CIRCUIT, AND DISPLAY PANEL
200	17/518,233	2021-11-03	DISPLAY DEVICE AND BACKLIGHT MODULE
201	17/229,917	2021-04-14	POLARIZER AND PREPARATION METHOD THEREOF AND DISPLAY DEVICE
202	16/714,385	2019-12-13	DISPLAY PANEL, DISPLAY DEVICE AND DISPLAY CONTROL METHOD THEREOF
203	16/617,110	2019-05-20	SHIFT REGISTER, SHIFT REGISTER CIRCUIT AND DISPLAY DEVICE
204	16/905,899	2020-06-18	ARRAY SUBSTRATE, MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE
205	16/767,128	2019-12-25	Display Panel and Display Device

206	17/547,030	2021-12-09	DISPLAY MODULE, DISPLAY SYSTEM AND CONTROL METHOD FOR DISPLAY SYSTEM
207	16/642,855	2019-08-22	DISPLAY SUBSTRATE, METHOD OF MANUFACTURING THE SAME AND DISPLAY DEVICE
208	16/641,434	2019-05-30	DISPLAY DEVICE
209	17/005,987	2020-08-28	Shiftregister and method of driving the same, gate driving circuit and display panel
210	16/936,353	2020-07-22	DISPLAY PANEL AND DISPLAY DEVICE
211	16/959,217	2019-08-29	LIQUID CRYSTAL DISPLAY PANEL AND DISPLAY DEVICE
212	16/762,985	2019-07-05	DISPLAY SUBSTRATE, DISPLAY APPARATUS, AND METHOD OF FABRICATING DISPLAY SUBSTRATE
213	16/759,761	2019-06-10	ELECTROLUMINESCENT DISPLAY PANEL AND BRIGHTNESS COMPENSATION METHOD THEREFOR
214	17/014,262	2020-09-08	DISPLAY PANEL AND DISPLAY DEVICE
215	17/458,171	2021-08-26	DRIVING METHOD AND APPARATUS OF DISPLAY PANEL
216	17/542,044	2021-12-03	GRAYSCALE COMPENSATION METHOD, GRAYSCALE COMPENSATION ASSEMBLY, AND LIQUID CRYSTAL DISPLAY DEVICE
217	17/040,260	2019-11-29	ARRAY SUBSTRATE, MANUFACTURING METHOD THEREOF, AND DISPLAY PANEL
218	17/200,929	2021-03-15	Touch Panel and Preparation Method Thereof, and Display Apparatus
219	16/537,962	2019-08-12	CHARGE COMPENSATION CIRCUIT, CHARGE COMPENSATION METHOD, AND DISPLAY DEVICE
220	17/041,334	2020-01-21	DISPLAY UNIT, DISPLAY SUBSTRATE AND DRIVING METHOD THEREOF, AND DISPLAY DEVICE
221	17/280,316	2020-05-15	DISPLAY PANEL AND ELECTRONIC DEVICE
222	17/264,695	2020-05-28	GATE DRIVING CIRCUIT, DISPLAY DEVICE AND DISPLAY CONTROL METHOD
223	17/265,546	2020-05-13	DISPLAY MODULE, DISPLAY DEVICE AND VIEWING-ANGLE SWITCHING METHOD
224	16/754,570	2019-01-14	ACTUATOR AND MANUFACTURE METHOD THEREOF, OPERATION METHOD THEREOF, AND MOVABLE DEVICE

225	16/632,589	2019-06-13	SURFACE LIGHT SOURCE, MANUFACTURING METHOD THEREOF AND LIQUID CRYSTAL DISPLAY DEVICE
226	17/040,864	2020-03-26	TOUCH DISPLAY DEVICE AND PREPARATION METHOD THEREOF, AND TERMINAL EQUIPMENT
227	17/197,487	2021-03-10	TOUCH-CONTROLLED DISPLAY PANEL AND DRIVING METHOD THEREOF, AND TOUCH-CONTROLLED DISPLAYING DEVICE
228	17/281,586	2020-12-24	Substrate and Display Panel
229	17/297,404	2020-08-31	DISPLAY SUBSTRATE AND METHOD FOR DRIVING THE SAME AND DISPLAY DEVICE
230	16/640,619	2019-06-27	POWER DISTRIBUTION NETWORK, LIQUID CRYSTAL ANTENNA AND COMMUNICATION DEVICE
231	17/359,601	2021-06-27	SUPPORT PLATES, DISPLAY APPARATUSES AND ELECTRONIC DEVICES
232	17/426,733	2021-01-06	ELECTRONIC DEVICE
233	16/832,546	2020-03-27	HOLOGRAPHIC REPRODUCTION DEVICE, HOLOGRAPHIC REPRODUCTION SYSTEM, AND HOLOGRAPHIC DISPLAY SYSTEM
234	16/831,144	2020-03-26	ARRAY SUBSTRATE, DISPLAY PANEL AND DISPLAY DEVICE
235	16/649,374	2019-04-09	DRIVE DEVICE FOR DISPLAY PANEL, DRIVE METHOD THEREOF AND DISPLAY APPARATUS
236	16/768,413	2019-07-22	ARRAY SUBSTRATE, METHOD OF MANUFACTURING THE SAME, AND DISPLAY DEVICE
237	16/764,101	2019-12-13	IMAGE PROCESSING METHOD, IMAGE PROCESSING APPARATUS AND DISPLAY APPARATUS
238	16/330,580	2018-07-13	COLOR FILTERING FILM, COLOR FILTER SUBSTRATE AND DISPLAY DEVICE
239	16/334,899	2018-05-18	A PIXEL DRIVING CIRCUIT WITH WIDE RANGE INPUT VOLTAGE
240	17/000,428	2020-08-24	DISPLAY PANEL AND PREPARATION METHOD THEREOF, AND DISPLAY DEVICE
241	16/769,407	2019-11-12	ARRAY SUBSTRATE, DISPLAY MODULE, TESTING METHOD FOR DISPLAY MODULE, DISPLAY PANEL

242	16/398,748	2019-04-30	APPARATUS, SYSTEM AND METHOD FOR CONTROLLING LOGISTICS, AND NON-TRANSITORY COMPUTER READABLE MEDIUM
243	16/499,496	2019-04-09	DISPLAY PANEL AND FABRICATING METHOD THEREOF
244	17/255,437	2020-06-02	Touch Display Substrate, Manufacturing Method Thereof, and Touch Display Apparatus
245	17/203,715	2021-03-16	Touch Display Module, Control Method thereof and Display Device
246	17/293,938	2020-09-30	DRIVING CIRCUIT OF DISPLAY PANEL, DISPLAY PANEL, AND DISPLAY DEVICE
247	17/466,150	2021-09-03	FLEXIBLE DISPLAY SUBSTRATE, METHOD FOR CONTROLLING SAME, AND DISPLAY DEVICE
248	16/621,217	2019-07-12	SHIFT REGISTER UNIT AND METHOD FOR DRIVING THE SAME, GATE DRIVING CIRCUIT AND DISPLAY DEVICE
249	16/618,261	2019-05-17	SHIFT REGISTER UNIT, SCAN DRIVING CIRCUIT, DRIVING METHOD THEREOF, AND DISPLAY APPARATUS
250	16/862,871	2020-04-30	DISPLAY PANEL, DISPLAY APPARATUS AND METHOD OF CONTROLLING THE SAME
251	16/850,472	2020-04-16	SUBSTRATE AND METHOD OF MANUFACTURING THE SAME, METHOD OF MANUFACTURING MOTHERBOARD, MASK AND EVAPORATION DEVICE
252	16/651,497	2019-05-20	DISPLAY PANEL AND MANUFACTURING METHOD THEREFOR, AND DISPLAY DEVICE
253	17/255,591	2020-04-10	FLEXIBLE DISPLAY SUBSTRATE AND METHOD FOR MANUFACTURING THE SAME
254	16/755,180	2019-10-15	DISPLAY PANEL AND METHOD FOR MANUFACTURING THE SAME, AND DISPLAY DEVICE
255	16/939,427	2020-07-27	ARRAY SUBSTRATE AND DISPLAY DEVICE
256	16/963,346	2019-09-27	ARRAY SUBSTRATE, DISPLAY APPARATUS, METHOD OF FABRICATING ARRAY SUBSTRATE, AND PIXEL DRIVING CIRCUIT
257	16/962,824	2020-01-06	COLOR FILM SUBSTRATE, DISPLAY DEVICE AND COLOR FILM SUBSTRATE FABRICATING METHOD

258	17/288,188	2020-08-19	ARRAY SUBSTRATE, LIGHT CONTROL PANEL, AND DISPLAY DEVICE
259	16/976,510	2019-12-25	DISPLAY DEVICE, CONTROL METHOD THEREFOR, AND HEAD-MOUNTED VIRTUAL DISPLAY DEVICE
260	17/352,275	2021-06-19	BONDING DEVICE AND BONDING METHOD
261	17/363,189	2021-06-30	DISPLAY DEVICE, METHOD FOR DRIVING SAME, AND DISPLAY SYSTEM