

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT7208527

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	SHANGHAI TIANMA AM-OLED CO.,LTD.	03/01/2022
RECEIVING PARTY DATA		
Name:	WUHAN TIANMA MICRO-ELECTRONICS CO., LTD.	
Street Address:	8TH LIUFANGYUAN RD, DONGYI INDUSTRIAL PARK, EAST LAKE HI-TECH DEVELOPMENT ZONE	
City:	WUHAN	
State/Country:	CHINA	
Postal Code:	430205	
Name:	WUHAN TIANMA MICROELECTRONICS CO., LTD. SHANGHAI BRANCH	
Street Address:	1F TO 4F OF BLOCK 1,BLOCK 3,BLOCK 5, BLOCK 7, BLOCK 9, BLOCK11 OF NO.3809, NORTH LINGKONG ROAD, PUDONG NEW DISTRICT	
City:	SHANGHAI	
State/Country:	CHINA	
Postal Code:	201201	
PROPERTY NUMBERS Total: 333		
Property Type	Number	
Patent Number:	10510808	
Patent Number:	10367036	
Patent Number:	10418432	
Patent Number:	10759802	
Patent Number:	10401998	
Patent Number:	10614753	
Patent Number:	10403212	
Patent Number:	10613402	
Patent Number:	10529271	
Patent Number:	10332449	
Patent Number:	10553810	
Patent Number:	10763449	
Patent Number:	10510972	
Patent Number:	10896643	

PATENT

Property Type	Number
Patent Number:	10665165
Patent Number:	10339858
Patent Number:	10431637
Patent Number:	10504977
Patent Number:	10235937
Patent Number:	10026362
Patent Number:	10276096
Patent Number:	10373555
Patent Number:	10769992
Patent Number:	10083659
Patent Number:	10535303
Patent Number:	10068520
Patent Number:	10269300
Patent Number:	10056038
Patent Number:	10629121
Patent Number:	10672345
Patent Number:	10056034
Patent Number:	10460658
Patent Number:	10103215
Patent Number:	10147353
Patent Number:	10403194
Patent Number:	10388714
Patent Number:	10373557
Patent Number:	10431609
Patent Number:	10199442
Patent Number:	10177332
Patent Number:	10615359
Patent Number:	11133476
Patent Number:	10510981
Patent Number:	10380938
Patent Number:	10068996
Patent Number:	10290695
Patent Number:	10283034
Patent Number:	10347181
Patent Number:	11056662
Patent Number:	10439008
Patent Number:	10446612
Patent Number:	10482844

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Patent Number:	10910604
Patent Number:	10360844
Patent Number:	10685729
Patent Number:	10431153
Patent Number:	10692424
Patent Number:	10262565
Patent Number:	10403195
Patent Number:	10535414
Patent Number:	10212811
Patent Number:	10417960
Patent Number:	10204969
Patent Number:	10312293
Patent Number:	10950796
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Patent Number:	10460673
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Patent Number:	10417967
Patent Number:	10242620
Patent Number:	10467965
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Patent Number:	10607540
Patent Number:	10600353
Patent Number:	10733939
Patent Number:	10135020
Patent Number:	10818875
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Patent Number:	11018197
Patent Number:	10700147
Patent Number:	10504400
Patent Number:	10546553
Patent Number:	10700137
Patent Number:	10783829
Patent Number:	10516015
Patent Number:	10290694
Patent Number:	10347837
Patent Number:	10700142
Patent Number:	10347659

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Patent Number:	10460656
Patent Number:	10627683
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Patent Number:	11022828
Patent Number:	10847740
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Patent Number:	10599273
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Patent Number:	10490136
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Patent Number:	10522584
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Patent Number:	10847237
Patent Number:	10467938
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Patent Number:	10769977
Patent Number:	10714053
Patent Number:	10657877
Patent Number:	10762976
Patent Number:	10964268
Patent Number:	10804351
Patent Number:	10748972
Patent Number:	10839192
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Patent Number:	10672334
Patent Number:	10565424
Patent Number:	10726239
Patent Number:	10565422

Property Type	Number
Patent Number:	10726238
Patent Number:	10936842
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Patent Number:	11183643
Patent Number:	10615355
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Patent Number:	10512179
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Patent Number:	10862061
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Patent Number:	11004907
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Patent Number:	10991767
Patent Number:	11004871
Patent Number:	11088235

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Patent Number:	11005020
Patent Number:	11127811
Patent Number:	11152441
Patent Number:	11200847
Patent Number:	11069766
Patent Number:	11069720
Patent Number:	11094293
Patent Number:	10971084
Patent Number:	11217575
Patent Number:	10971556
Patent Number:	10950321
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Patent Number:	10912212
Patent Number:	11018204
Patent Number:	10997891
Patent Number:	10985224
Patent Number:	11241961
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Patent Number:	10878752
Patent Number:	11107411
Patent Number:	11049458
Patent Number:	11239448
Patent Number:	11164522
Patent Number:	11210980
Patent Number:	11144159
Application Number:	15862787
Application Number:	15910890
Application Number:	17565486

Property Type	Number
Application Number:	15888104
Application Number:	16141513
Application Number:	16052631
Application Number:	17134932
Application Number:	17135016
Application Number:	16222935
Application Number:	16157392
Application Number:	16239546
Application Number:	16249906
Application Number:	16409376
Application Number:	17138912
Application Number:	17138915
Application Number:	17473361
Application Number:	16460279
Application Number:	17209053
Application Number:	17217087
Application Number:	16910078
Application Number:	16669365
Application Number:	16732136
Application Number:	16459920
Application Number:	16653383
Application Number:	16732110
Application Number:	16669398
Application Number:	16691494
Application Number:	16875606
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Application Number:	16722500
Application Number:	16674328
Application Number:	17238108
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Application Number:	16730819
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Application Number:	16591895
Application Number:	16731079

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Application Number:	16874514
Application Number:	16716389
Application Number:	16885139
Application Number:	16730171
Application Number:	16730337
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Application Number:	16896026
Application Number:	16828608
Application Number:	16922566
Application Number:	17103329
Application Number:	17001852
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Application Number:	17213000
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Application Number:	17138925
Application Number:	17161692
Application Number:	17123980
Application Number:	17128932
Application Number:	17217317
Application Number:	17106546
Application Number:	17376340
Application Number:	17203430
Application Number:	17172718
Application Number:	17215494
Application Number:	17216814
Application Number:	17210783
Application Number:	17136032
Application Number:	17323149
Application Number:	17229876
Application Number:	17197007
Application Number:	17191891
Application Number:	17363772
Application Number:	17370715
Application Number:	17236403
Application Number:	17215984
Application Number:	17166616
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Application Number:	17228669
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Application Number:	17405643
Application Number:	17365251

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Application Number:	17204347
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Application Number:	17515771
Application Number:	17367158
Application Number:	17406891
Application Number:	17386558
Application Number:	17366339
Application Number:	17394954
Application Number:	17406016
Application Number:	17454856
Application Number:	17466666
Application Number:	17399446

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.

Phone: 571-379-9468

Email: uspto@anovalaw.com

Correspondent Name: ANOVA LAW GROUP C/O SMIC

Address Line 1: 21495 RIDGETOP CIRCLE

Address Line 2: SUITE 300

Address Line 4: STERLING, VIRGINIA 20166

NAME OF SUBMITTER:	TING XUE
SIGNATURE:	/Ting Xue/
DATE SIGNED:	03/04/2022

Total Attachments: 29

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ASSIGNMENT AGREEMENT

WHEREAS Shanghai Tianma AM-OLED Co., Ltd., a corporation of P.R. China, whose post office address is Room 509, Building 1, No. 6111 Longdong Rd., Pudong Dist., Shanghai, China, 201201, (hereinafter referred to as Assignor), is the owner of entire rights of patents listed in Appendix A (Assigned patents) and patent applications listed in Appendix B (Assigned patent applications);

WHEREAS, Wuhan Tianma Micro-Electronics Co., Ltd., a corporation of P.R. China whose post office address is 8th Liufangyuan Road, Dongyi Industrial Park, East Lake Hi-Tech Development Zone, Wuhan, China 430205 and Wuhan Tianma Microelectronics Co., Ltd. Shanghai Branch, a corporation of P. R. China whose post office address is 1F to 4F of Block 1, Block 3, Block 5, Block 7, Block 9, Block 11 of No. 3809, North Lingkong Road, Pudong New District, Shanghai, China, 201201, (hereinafter referred to as Assignees), are desirous of securing the entire right, title, and interest in and to the Assigned patents and patent applications;

NOW THEREFORE, be it known that, for a good valuable consideration the receipt of which from Assignee is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, the entire right, title, and interest in and to the Assigned patent and patent applications, and all divisions, and continuations thereof, and all Letter Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority therefore; and the Assignor hereby authorizes and requests the Commissioner of Patent and Trademarks of the United States to issue all Letters Patents for the Assigned patents and patent applications to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, Assignor HEREBY covenants that the Assignor has the full right to convey the interest assigned by this Assignment, and Assignor has not executed and will not execute any agreement in conflict with this Assignment;

IN TESTIMONY WHEREOF, We have hereunto set our hands.

Shanghai Tianma AM-OLED Co., Ltd.

Signature: *Yuantao WU*

By: Yuantao WU

Date: *March, 1, 2022*

APPENDIX A

List of US Patents:

Patent No.	Application No.	Title of Invention	Patented
US10510808B2	15/787,051	ORGANIC LIGHT-EMITTING STRUCTURE, DISPLAY DEVICE, AND MOBILE TERMINAL	12/17/2019
US10367036B2	15/786,978	ORGANIC LIGHT-EMITTING STRUCTURE, DISPLAY DEVICE, AND DISPLAY DEVICE	7/30/2019
US10418432B2	15/796,674	DISPLAY PANEL, METHOD FOR MAKING DISPLAY PANEL, AND ELECTRONIC DEVICE	9/17/2019
US10759802B2	15/803,833	COMPOUND, PREPARATION METHOD THEREOF AND ORGANIC LIGHT EMITTING DISPLAY DEVICE	9/1/2020
US10401998B2	15/726,252	FLEXIBLE TOUCH DISPLAY PANEL AND FLEXIBLE TOUCH DISPLAY DEVICE	9/3/2019
US10614753B2	15/974,340	DISPLAY PANEL AND ELECTRONIC DEVICE	4/7/2020
US10403212B2	15/789,855	DISPLAY PANEL, METHOD FOR DISPLAYING ON THE SAME, AND DISPLAY DEVICE	9/3/2019
US10613402B2	15/792,629	DISPLAY PANEL, METHOD OF MANUFACTURING DISPLAY PANEL AND DISPLAY DEVICE	4/7/2020

US10529271B2	15/795,210	DISPLAY PANEL, ELECTRONIC DEVICE AND TEST METHOD	1/7/2020
US10332449B2	15/788,659	METHOD FOR POWERING ORGANIC ELECTROLUMINESCENCE DISPLAY PANEL, AND DISPLAY DEVICE	6/25/2019
US10553810B2	15/672,320	AN OLED DISPLAY PANEL AND AN ELECTRONIC DEVICE COMPRISING THE SAME	2/4/2020
US10763449B2	15/677,393	ORGANIC LIGHT- EMITTING DIODE (OLED) DISPLAY PANEL, FABRICATION METHOD AND ELECTRONIC DEVICE THEREOF	9/1/2020
US10510972B2	15/713,504	AN OLED DISPLAY PANEL AND A DISPLAY DEVICE COMPRISING THE SAME	12/17/2019
US10896643B2	15/633,772	CURRENT DETECTION METHOD FOR PIXEL CIRCUIT, DISPLAY PANEL AND DISPLAY DEVICE	1/19/2021
US10665165B2	15/668,699	ORGANIC LIGHT- EMITTING DISPLAY PANEL, ORGANIC LIGHT- EMITTING DISPLAY APPARATUS, AND DRIVING METHOD OF ORGANIC LIGHT- EMITTING DISPLAY PANEL	5/26/2020
US10339858B2	15/619,554	PIXEL CIRCUIT, DRIVE METHOD, DISPLAY PANEL AND DISPLAY DEVICE	7/2/2019
US10431637B2	15/786,235	TOUCH DISPLAY PANEL AND DISPLAY APPARATUS	10/1/2019

US10504977B2	15/707,887	ORGANIC LIGHT-EMITTING CIRCUIT STRUCTURE WITH TEMPERATURE COMPENSATION FUNCTION	12/10/2019
US10235937B2	15/715,094	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND DRIVING METHOD THEREOF, AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	3/19/2019
US10026362B2	15/619,352	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND DRIVING METHOD THEREOF, AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	7/17/2018
US10276096B2	15/715,102	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND DRIVING METHOD THEREOF, AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	4/30/2019
US10373555B2	15/596,390	ORGANIC LIGHT-EMITTING DISPLAY PANEL, ORGANIC LIGHT-EMITTING DISPLAY DEVICE, AND PIXEL COMPENSATION METHOD	8/6/2019
US10769992B2	15/591,906	DISPLAY PANEL, DRIVING METHOD, AND DISPLAY DEVICE	9/8/2020
US10083659B2	15/629,590	ORGANIC LIGHT-EMITTING DISPLAY PANEL, DRIVING METHOD THEREOF AND ORGANIC LIGHT-EMITTING DISPLAY APPARATUS	9/25/2018

US10535303B2	16/107,971	ORGANIC LIGHT EMITTING DISPLAY PANEL, DRIVING METHOD THEREOF AND ORGANIC LIGHT EMITTING DISPLAY APPARATUS	1/14/2020
US10068520B2	15/638,024	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DRIVING METHOD THEREOF, AND ORGANIC LIGHT- EMITTING DISPLAY DEVICE	9/4/2018
US10269300B2	15/486,424	ORGANIC LIGHT- EMITTING DISPLAY PANEL, DRIVING METHOD THEREOF, AND ORGANIC LIGHT- EMITTING DISPLAY DEVICE	4/23/2019
US10056038B2	15/593,929	ORGANIC LIGHT EMITTING DISPLAY PANEL, DRIVING METHOD THEREOF AND ORGANIC LIGHT EMITTING DISPLAY APPARATUS	8/21/2018
US10629121B2	15/611,475	ORGANIC LIGHT- EMITTING PIXEL DRIVING CIRCUIT, DRIVING METHOD THEREOF, AND ORGANIC LIGHT-EMITTING DISPLAY PANEL	4/21/2020
US10672345B2	15/593,734	ORGANIC LIGHT EMITTING DISPLAY PANEL, DRIVING METHOD THEREOF AND ORGANIC LIGHT EMITTING DISPLAY APPARATUS	6/2/2020
US10056034B2	15/619,510	ORGANIC LIGHT- EMITTING PIXEL DRIVING CIRCUIT,	8/21/2018

		DRIVING METHOD AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	
US10460658B2	15/488,962	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND DRIVING METHOD THEREOF, AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	10/29/2019
US10103215B1	15/702,121	DISPLAY PANEL AND DISPLAY DEVICE	10/16/2018
US10147353B2	15/592,065	ORGANIC LIGHT EMITTING DISPLAY PANEL AND PIXEL COMPENSATION METHOD	12/4/2018
US10403194B2	15/787,379	DISPLAY PANEL AND DISPLAY DEVICE	9/3/2019
US10388714B2	15/796,686	ORGANIC LIGHT EMITTING DISPLAY PANEL AND DISPLAY DEVICE	8/20/2019
US10373357B2	15/636,455	ORGANIC LIGHT-EMITTING PIXEL DRIVING CIRCUIT, DRIVING METHOD AND ORGANIC LIGHT-EMITTING DISPLAY PANEL	8/6/2019
US10431609B2	15/890,054	ARRAY SUBSTRATE, DISPLAY PANEL, ENCAPSULATION METHOD THEREOF, AND DISPLAY APPARATUS	10/1/2019
US10199442B1	15/862,866	ORGANIC LIGHT-EMITTING DISPLAY PANEL, METHOD FOR PREPARING THE SAME, AND ORGANIC LIGHT-	2/5/2019

		EMITTING DISPLAY DEVICE	
US10177332B2	15/717,798	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DEVICE	1/8/2019
US10615359B2	16/203,462	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DEVICE	4/7/2020
US11133476B2	15/673,327	AN ELECTRON TRANSPORT MATERIAL, AN OLED DISPLAY PANEL AND AN ELECTRONIC DEVICE COMPRISING THE SAME	9/28/2021
US10510981B2	15/605,537	ORGANIC LIGHT- EMITTING DIODE DISPLAY PANEL, FABRICATION METHOD, AND ELECTRONIC APPARATUS	12/17/2019
US10380938B2	15/866,230	DISPLAY PANEL AND DISPLAY DEVICE	8/13/2019
US10068996B2	15/708,829	ARRAY SUBSTRATE, FABRICATION METHOD, AND DISPLAY PANEL	9/4/2018
US10290695B2	15/670,643	DISPLAY PANEL AND FABRICATION METHOD THEREOF	5/14/2019
US10283034B2	15/864,280	PIXEL STRUCTURE, DISPLAY PANEL, DISPLAY DEVICE, AND DISPLAY-PANEL DRIVING METHOD THEREOF	5/7/2019
US10347181B2	15/728,516	DISPLAY PANEL, DISPLAY DEVICE, AND METHOD FOR DRIVING A PIXEL CIRCUIT	7/9/2019

US11056662B2	15/791,347	ORGANIC LIGHT-EMITTING DEVICE AND DISPLAY DEVICE	7/6/2021
US10439008B2	15/787,715	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND MANUFACTURING METHOD THEREOF, AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	10/8/2019
US10446612B2	15/802,453	ORGANIC LIGHT-EMITTING DEVICE AND DISPLAY DEVICE	10/15/2019
US10482844B2	15/709,906	METHOD TO IMPROVE DISPLAY PERFORMANCE AT EDGES OF CIRCULAR DISPLAY SCREEN	11/19/2019
US10910604B2	15/912,252	ORGANIC LIGHT-EMITTING DISPLAY PANEL, METHOD FOR ADJUSTING COLOR TEMPERATURE THEREOF, AND DISPLAY DEVICE	2/2/2021
US10360844B2	15/866,389	DISPLAY PANEL, METHOD FOR DISPLAYING AN IMAGE ON THE SAME, AND DISPLAY DEVICE	7/23/2019
US10685729B2	15/864,598	SHIFT REGISTER ELEMENT, METHOD FOR DRIVING THE SAME, AND DISPLAY PANEL	6/16/2020
US10431153B2	15/865,097	PIXEL CIRCUIT, METHOD FOR DRIVING THE SAME, AND ORGANIC ELECTROLUMINESCENT DISPLAY PANEL	10/1/2019
US10692424B2	15/862,618	ORGANIC ELECTROLUMINESCENT DISPLAY PANEL, DRIVING METHOD	6/23/2020

		THEREOF AND DISPLAY DEVICE	
US10262565B2	15/807,438	ORGANIC LIGHT- EMITTING DISPLAY PANEL, METHOD AND APPARATUS FOR TESTING THE SAME, AND METHOD FOR DISPLAYING ON THE SAME	4/16/2019
US10403195B2	15/791,137	SHIFT REGISTER, METHOD FOR DRIVING THE SAME, AND DISPLAY DEVICE	9/3/2019
US10535414B2	15/864,818	SHIFT REGISTER ELEMENT, METHOD FOR DRIVING THE SAME, AND DISPLAY DEVICE	1/14/2020
US10212811B1	15/957,010	FLEXIBLE DISPLAY PANEL AND DISPLAY APPARATUS	2/19/2019
US10417960B2	15/865,082	ORGANIC ELECTROLUMINESCENT DISPLAY PANEL AND DISPLAY DEVICE	9/17/2019
US10204969B2	15/869,973	ORGANIC LIGHT- EMITTING DISPLAY PANEL, FABRICATION METHOD THEREOF, AND DISPLAY APPARATUS	2/12/2019
US10312293B2	15/890,985	ORGANIC LIGHT- EMITTING DIODE, DISPLAY PANEL AND DISPLAY DEVICE	6/4/2019
US10950796B2	15/892,196	LIGHT-EMITTING ELEMENT AND DISPLAY DEVICE	3/16/2021
US10665821B2	15/888,092	ORGANIC LIGHT- EMITTING DIODE, DISPLAY PANEL AND DISPLAY DEVICE	5/26/2020

US10497895B2	15/886,956	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	12/3/2019
US10460673B2	15/867,507	PIXEL CIRCUIT, METHOD FOR DRIVING THE SAME, AND DISPLAY PANEL	10/29/2019
US10438536B2	15/866,235	ELECTROLUMINESCENT DISPLAY PANEL, DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME	10/8/2019
US10417967B2	15/863,967	DISPLAY PANEL AND DISPLAY DEVICE	9/17/2019
US10242620B2	15/907,191	PIXEL CIRCUIT, METHOD FOR DRIVING THE SAME, DISPLAY PANEL, AND DISPLAY DEVICE	3/26/2019
US10467965B2	15/864,731	PIXEL CIRCUIT, METHOD FOR DRIVING THE SAME, OLED PANEL, AND DISPLAY DEVICE	11/5/2019
US10573220B2	15/862,601	DISPLAY PANEL AND ELECTRONIC DEVICE	2/25/2020
US10607540B2	15/917,443	DISPLAY PANEL AND DISPLAY DEVICE	3/31/2020
US10600353B2	15/912,045	METHOD FOR DRIVING A PIXEL CIRCUIT, DISPLAY PANEL AND DISPLAY DEVICE	3/24/2020
US10733939B2	15/890,361	PIXEL CIRCUIT, DISPLAY PANEL AND DRIVE METHOD FOR A PIXEL CIRCUIT	8/4/2020
US10135020B1	15/862,613	ORGANIC LIGHT-EMITTING DISPLAY PANEL, METHOD FOR MAKING THE SAME, AND ORGANIC LIGHT-	11/20/2018

		EMITTING DISPLAY DEVICE	
US10818875B2	15/912,909	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	10/27/2020
US10325969B2	15/831,920	DISPLAY PANEL, FABRICATION METHOD AND DISPLAY APPARATUS	6/18/2019
US11018197B2	16/156,489	DISPLAY PANEL AND FABRICATION METHOD THEREOF	5/25/2021
US10700147B2	15/944,465	ARRAY SUBSTRATE, ORGANIC LIGHT EMITTING DISPLAY PANEL AND ORGANIC LIGHT EMITTING DISPLAY DEVICE	6/30/2020
US10504400B2	15/890,362	IMAGE PROCESSING METHOD, APPARATUS, AND DISPLAY DEVICE	12/10/2019
US10546553B2	15/888,099	IMAGE PROCESSING APPARATUS, IMAGE PROCESSING METHOD AND DISPLAY APPARATUS	1/28/2020
US10700137B2	16/137,308	DISPLAY PANEL AND DISPLAY DEVICE	6/30/2020
US10783829B2	16/244,293	DISPLAY PANEL AND DISPLAY DEVICE	9/22/2020
US10516015B2	16/147,582	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	12/24/2019
US10290694B2	15/937,880	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ORGANIC	5/14/2019

		LIGHT-EMITTING DISPLAY DEVICE	
US10347837B2	15/983,092	ORGANIC ELECTROLUMINESCENT DISPLAY PANEL, METHOD FOR MANUFACTURING THE SAME, AND DISPLAY DEVICE	7/9/2019
US10700142B2	15/961,850	ORGANIC ELECTROLUMINESCENT DISPLAY PANEL AND DISPLAY DEVICE	6/30/2020
US10347659B2	15/873,915	DISPLAY PANEL, ELECTROLUMINESCENT DISPLAY PANEL, AND DISPLAY DEVICE	7/9/2019
US10460656B2	15/907,288	DISPLAY PANEL AND DISPLAY DEVICE	10/29/2019
US10627683B2	15/862,607	DISPLAY PANEL AND DISPLAY DEVICE	4/21/2020
US11,094,238B2	16/265,098	DISPLAY PANEL AND DISPLAY DEVICE	8/17/2021
US10672340B2	15/890,687	OLED DISPLAY PANEL, METHOD FOR DRIVING THE SAME AND DISPLAY DEVICE	6/2/2020
US10586511B2	16/229,096	DISPLAY PANEL, DRIVING METHOD, AND DISPLAY DEVICE	3/10/2020
US10811465B2	16/142,941	DISPLAY PANEL AND DISPLAY DEVICE	10/20/2020
US10580361B2	15/980,073	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	3/3/2020

US11022828B2	15/895,126	DISPLAY DEVICE AND FABRICATION METHOD THEREOF	6/1/2021
US10847740B2	16/058,670	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	11/24/2020
US11171186B2	16/138,452	LIGHT-EMITTING STRUCTURE, DISPLAY PANEL, DISPLAY DEVICE, AND CONTROL METHOD FOR DISPLAY PANEL	11/9/2021
US10599273B2	15/984,432	DISPLAY PANEL AND DISPLAY DEVICE	3/24/2020
US10503301B2	15/957,623	TOUCH DISPLAY PANEL AND TOUCH DISPLAY DEVICE	12/10/2019
US10657888B2	15/966,129	DRIVING METHOD FOR PIXEL DRIVING CIRCUIT, DISPLAY PANEL AND DISPLAY DEVICE	5/19/2020
US10607521B2	16/198,963	EMISSION CONTROLLER, CONTROL METHOD THEREOF AND DISPLAY DEVICE	3/31/2020
US10490136B2	16/203,645	PIXEL CIRCUIT AND DISPLAY DEVICE	11/26/2019
US10600851B2	16/059,248	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	3/24/2020
US10522584B2	16/175,997	DISPLAY PANEL, MANUFACTURING METHOD THEREOF AND DISPLAY DEVICE	12/31/2019
US10644091B2	16/051,487	ELECTRONIC DEVICE, DISPLAY PANEL AND METHOD FOR	5/5/2020

		MANUFACTURING DISPLAY PANEL	
US10685597B2	16/151,372	EMISSION DRIVING CIRCUIT, DRIVING METHOD OF SHIFT REGISTER, AND DISPLAY DEVICE	6/16/2020
US10522074B2	16/131,088	EMISSION DRIVING CIRCUIT, DISPLAY DEVICE AND DRIVING METHOD OF SHIFT REGISTER	12/31/2019
US10803817B2	16/103,021	EMISSION CONTROL CIRCUIT, METHOD FOR DRIVING EMISSION CONTROL CIRCUIT, EMISSION CONTROLLER, AND DISPLAY DEVICE	10/13/2020
US10909950B2	16/137,602	EMISSION CONTROLLER, DRIVING METHOD, AND DISPLAY DEVICE	2/2/2021
US10847237B2	16/244,301	DRIVING CIRCUIT, DISPLAY DEVICE AND DRIVING METHOD	11/24/2020
US10467938B1	16/161,414	SCAN DRIVING CIRCUIT, DISPLAY DEVICE AND DRIVING METHOD	11/5/2019
US10726778B2	16/167,657	EMISSION DRIVING CIRCUIT, DRIVING METHOD OF THE SAME, AND DISPLAY DEVICE	7/28/2020
US10769977B2	16/100,474	SHIFT REGISTER AND DRIVING METHOD OF THE SAME, EMISSION DRIVING CIRCUIT, AND DISPLAY DEVICE	9/8/2020
US10714053B2	16/191,495	DRIVING CIRCUIT, METHOD FOR CONTROLLING LIGHT EMISSION AND DISPLAY DEVICE	7/14/2020

US10657877B2	16/190,670	DRIVING CIRCUIT, DRIVING METHOD AND DISPLAY DEVICE	5/19/2020
US10762976B2	16/197,521	SCAN DRIVING CIRCUIT, DRIVING METHOD, AND DISPLAY DEVICE	9/1/2020
US10964268B2	16/202,528	SCAN DRIVING CIRCUIT, DRIVING METHOD, AND DISPLAY DEVICE	3/30/2021
US10804351B2	16/239,558	ORGANIC LIGHT- EMITTING DIODE DISPLAY PANEL AND DISPLAY DEVICE	10/13/2020
US10748972B2	16/186,627	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	8/18/2020
US10839192B2	16/124,465	DISPLAY PANEL AND DISPLAY DEVICE	11/17/2020
US11010583B2	16/234,699	DISPLAY PANEL AND DISPLAY APPARATUS	5/18/2021
US10672334B2	16/181,520	ORGANIC LIGHT- EMITTING DISPLAY PANEL, METHOD FOR DRIVING THE SAME, AND ORGANIC LIGHT- EMITTING DISPLAY DEVICE	6/2/2020
US10565424B2	16/111,150	DISPLAY PANEL AND DISPLAY DEVICE	2/18/2020
US10726239B2	16/166,376	DISPLAY PANEL AND DISPLAY DEVICE	7/28/2020
US10565422B2	16/059,249	DISPLAY PANEL AND DISPLAY DEVICE	2/18/2020
US10726238B2	16/137,575	DISPLAY PANEL AND DISPLAY DEVICE	7/28/2020

US10936842B2	16/229,479	DISPLAY PANEL AND DISPLAY DEVICE	3/2/2021
US10810398B2	16/232,131	DISPLAY PANEL AND DISPLAY DEVICE	10/20/2020
US10748476B2	16/202,001	DISPLAY PANEL, METHOD FOR DRIVING THE SAME, AND DISPLAY DEVICE	8/18/2020
US11183643B2	16/212,292	NITROGEN HETEROCYCLE FUSED RING-INDENE COMPOUND AND ORGANIC LIGHT- EMITTING DISPLAY DEVICE	11/23/2021
US10615355B2	16/136,711	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DISPLAY DEVICE	4/7/2020
US10516125B1	16/155,144	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DISPLAY DEVICE	12/24/2019
US11145691B2	16/210,281	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DISPLAY DEVICE	10/12/2021
US10620664B2	16/224,829	FOLDABLE DISPLAY PANNEL, DISPLAY DEVICE, IMAGE COMPENSATION METHOD AND IMAGE COMPENSATION DEVICE	4/14/2020
US10716227B2	16/184,939	BENDING APPARATUS AND DISPLAY DEVICE	7/14/2020
US10512179B2	16/244,108	FLEXIBLE DISPLAY DEVICE AND ELECTRONIC DEVICE	12/17/2019
US10964906B2	16/244,227	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ORGANIC	3/30/2021

		LIGHT-EMITTING DISPLAY APPARATUS	
US10862061B2	16/215,820	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	12/8/2020
US10439003B1	16/229,343	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DISPLAY DEVICE	10/8/2019
US10658601B2	16/220,077	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DISPLAY DEVICE	5/19/2020
US10825884B2	16/257,005	DISPLAY PANEL AND DISPLAY DEVICE	11/3/2020
US10546911B2	16/203,640	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ELECTRONIC DEVICE	1/28/2020
US10692419B2	16/410,569	DISPLAY PANEL, DISPLAY DEVICE AND DISPLAY METHOD OF DISPLAY PANEL	6/23/2020
US10916737B2	16/266,068	DISPLAY PANEL, MASK, METHOD FOR MANUFACTURING DISPLAY PANEL, AND DISPLAY DEVICE	2/9/2021
US11152445B2	16/358,924	DISPLAY PANEL AND DISPLAY DEVICE	10/19/2021
US10826004B2	16/567,099	FLEXIBLE DISPLAY PANEL AND DISPLAY APPARATUS	11/3/2020
US10699633B2	16/423,449	DISPLAY PANEL AND DISPLAY DEVICE	6/30/2020
US10804346B2	16/423,437	DISPLAY PANEL, DISPLAY DEVICE AND	10/13/2020

		DRIVING METHOD FOR DISPLAY DEVICE	
US10928952B2	16/460,353	TOUCH DISPLAY PANEL AND TOUCH DISPLAY DEVICE	2/23/2021
US10943533B2	16/420,461	METHOD FOR DRIVING DISPLAY PANEL, DRIVING CHIP AND DISPLAY DEVICE	3/9/2021
US10741124B2	16/360,197	PIXEL CIRCUIT, DISPLAY PANEL AND DISPLAY DEVICE	8/11/2020
US11126226B2	16/460,887	DISPLAY PANEL AND DISPLAY APPARATUS	9/21/2021
US10942591B2	16/574,702	TOUCH DISPLAY PANEL AND TOUCH DISPLAY DEVICE	3/9/2021
US10756142B2	16/458,201	DISPLAY PANEL AND DISPLAY DEVICE	8/25/2020
US10664018B1	16/459,502	FOLDABLE DISPLAY DEVICE	5/26/2020
US10991315B2	16/407,050	DISPLAY PANEL AND DISPLAY DEVICE	4/27/2021
US11164931B2	16/452,757	DISPLAY PANEL AND DISPLAY DEVICE	11/2/2021
US10734415B1	16/394,119	DISPLAY PANEL AND DISPLAY DEVICE	8/4/2020
US11004907B2	16/452,746	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND PIXEL ARRANGEMENT THEREOF	5/11/2021
US10854124B2	16/459,386	DISPLAY PANEL AND DISPLAY DEVICE INCLUDING THE SAME	12/1/2020
US10991767B2	16/420,551	DISPLAY PANEL AND DISPLAY APPARATUS	4/27/2021

US11004871B2	16/706,828	DISPLAY PANEL AND DISPLAY APPARATUS	5/11/2021
US11088235B2	16/675,240	DISPLAY PANEL AND DISPLAY DEVICE	8/10/2021
US10879320B2	16/573,945	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DISPLAY APPARATUS	12/29/2020
US11024695B2	16/671,543	DISPLAY PANEL AND DISPLAY APPARATUS INCLUDING THE SAME	6/1/2021
US11037501B2	16/587,047	DISPLAY PANEL, METHOD FOR DRIVING THE SAME, AND DISPLAY DEVICE	6/15/2021
US10916201B2	16/687,710	SCAN CIRCUIT, DISPLAY PANEL, AND DISPLAY DEVICE	2/9/2021
US10997888B2	16/573,098	DISPLAY PANEL AND DISPLAY DEVICE INCLUDING THE SAME	5/4/2021
US10866617B2	16/600,447	WEARABLE DISPLAY DEVICE	12/15/2020
US11164501B2	16/730,718	DISPLAY PANEL AND DISPLAY DEVICE	11/2/2021
US10892306B1	16/681,962	DISPLAY PANEL AND DISPLAY DEVICE	1/12/2021
US10998345B2	16/681,450	DISPLAY PANEL AND DISPLAY DEVICE	5/4/2021
US11011112B2	16/712,691	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	5/18/2021
US11005020B2	16/730,602	DISPLAY PANEL AND FABRICATING METHOD THEREOF	5/11/2021

US11127811B2	16/728,031	DISPLAY PANEL, MANUFACTURING METHOD THEREOF AND DISPLAY DEVICE	9/21/2021
US11152441B2	16/726,963	ARRAY SUBSTRATE, DISPLAY PANEL, DISPLAY DEVICE AND MANUFACTURING METHOD OF AN ARRAY SUBSTRATE	10/19/2021
US11200847B2	16/567,933	DISPLAY PANEL, DISPLAY DEVICE AND DRIVE METHOD	12/14/2021
US11069766B2	16/730,556	DISPLAY PANEL WITH IRREGULAR SHAPE AND DISPLAY DEVICE	7/20/2021
US11069720B2	16/669,546	DISPLAY PANEL AND DISPLAY DEVICE	7/20/2021
US11094293B2	16/842,640	METHOD AND DEVICE FOR ADJUSTING DISPLAY BRIGHTNESS	8/17/2021
US10971084B2	16/840,183	DISPLAY DEVICE, CONTROL METHOD AND APPARATUS THEREOF	4/6/2021
US11217575B2	16/905,981	DISPLAY PANEL AND DISPLAY DEVICE HAVING REPAIR LAYERS	1/4/2022
US10971556B1	16/833,134	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	4/6/2021
US10950321B2	16/852,223	SHIFT REGISTER, GATE DRIVING CIRCUIT, DISPLAY PANEL AND DISPLAY DEVICE	3/16/2021
US11183114B2	16/852,166	DISPLAY PANEL, COMPENSATION METHOD THEREOF AND DISPLAY DEVICE	11/23/2021

US10912212B1	16/727,203	DISPLAY DEVICE	2/2/2021
US11018204B1	16/832,963	DISPLAY PANEL AND DISPLAY DEVICE	5/25/2021
US10997891B2	16/730,475	DISPLAY PANEL AND DRIVING METHOD THEREOF, AND DISPLAY APPARATUS	5/4/2021
US10985224B2	16/729,239	DISPLAY PANEL AND DISPLAY DEVICE	4/20/2021
US11241961B2	16/729,159	VEHICLE INSTRUMENT, DISPLAY METHOD OF THE SAME, AND VEHICLE SPEED MONITORING DISPLAY SYSTEM	2/8/2022
US11093091B2	17/006,894	DISPLAY PANEL	8/17/2021
US10878752B1	16/903,100	PIXEL DRIVING CIRCUIT AND DRIVING METHOD, AND DISPLAY DEVICE	12/29/2020
US11107411B2	16/880,427	PIXEL DRIVING CIRCUIT, DRIVING METHOD THEREOF, AND DISPLAY DEVICE	8/31/2021
US11049458B1	16/909,056	PIXEL DRIVING CIRCUIT, DRIVING METHOD AND ORGANIC LIGHT EMITTING DISPLAY PANEL	6/29/2021
US11239448B2	16/941,280	ORGANIC LIGHT- EMITTING DISPLAY PANEL AND DISPLAY APPARATUS	2/1/2022
US11164522B2	17/134,785	DISPLAY PANEL, BRIGHTNESS COMPENSATION METHOD, AND DISPLAY DEVICE	11/2/2021
US11210980B2	17/228,942	DETECTION METHOD FOR DISPLAY PANEL	12/28/2021

		DISPLAY PANEL AND DISPLAY DEVICE	
US11144159B2	17/171,743	DRIVING METHOD OF DISPLAY PANEL, DISPLAY PANEL AND DISPLAY DEVICE	10/12/2021

Appendix B

List of US Applications:

Application No.	Title of Invention	Filed
15/862,787	ORGANIC LIGHT EMITTING DISPLAY PANEL AND DISPLAY DEVICE	1/5/2018
15/910,890	ORGANIC LIGHT-EMITTING DIODE, DISPLAY PANEL AND DISPLAY DEVICE	3/2/2018
17/565,486	ORGANIC LIGHT-EMITTING DISPLAY PANEL, DRIVING METHOD AND DRIVING DEVICE THEREFOR	12/30/2021
15/888,104	MASK DEVICE AND EVAPORATION DEVICE	2/5/2018
16/141,513	COMPOUND, METHOD FOR PREPARING COMPOUND AND ORGANIC LIGHT EMITTING DISPLAY DEVICE	9/25/2018
16/052,631	COMPOUND AND ORGANIC LIGHT EMITTING DISPLAY DEVICE	8/2/2018
17/134,932	EMISSION CONTROLLER, DRIVING METHOD, AND DISPLAY DEVICE	12/28/2020
17/135,016	EMISSION CONTROLLER, DRIVING METHOD, AND DISPLAY DEVICE	12/28/2020
16/222,935	AROMATIC HETEROCYCLIC COMPOUND AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	12/17/2018
16/157,392	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND DISPLAY DEVICE	10/11/2018
16/239,546	COMPOUND AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	1/4/2019
16/249,906	DISPLAY PANEL, MASK, METHOD FOR MANUFACTURING DISPLAY PANEL, AND DISPLAY DEVICE	1/17/2019
16/409,376	THERMALLY ACTIVATED DELAYED MATERIAL AND ORGANIC PHOTOELECTRIC DEVICE COMPRISING THE SAME	5/10/2019
17/138,912	DISPLAY PANEL, MASK, METHOD FOR MANUFACTURING DISPLAY PANEL, AND DISPLAY DEVICE	12/31/2020
17/138,915	DISPLAY PANEL, MASK, METHOD FOR MANUFACTURING DISPLAY PANEL, AND DISPLAY DEVICE	12/31/2020
17/473,361	DISPLAY PANEL AND DISPLAY DEVICE	9/24/2021
16/460,279	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND DISPLAY DEVICE	7/2/2019
17/209,053	DISPLAY PANEL AND DISPLAY DEVICE	3/22/2021
17/217,087	DISPLAY PANEL	3/30/2021

16/910,078	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND DISPLAY DEVICE	6/24/2020
16/669,365	COMPOUND, DISPLAY PANEL AND DISPLAY APPARATUS	10/30/2019
16/732,136	COMPOUND, DISPLAY PANEL AND DISPLAY APPARATUS	12/31/2019
16/459,920	DISPLAY PANEL AND DISPLAY DEVICE	7/2/2019
16/653,383	COMPOUND, DISPLAY PANEL AND DISPLAY APPARATUS	10/15/2019
16/732,110	COMPOUND, DISPLAY PANEL AND DISPLAY APPARATUS	12/31/2019
16/669,398	COMPOUND, DISPLAY PANEL AND DISPLAY APPARATUS	10/30/2019
16/691,494	A COMPOUND, LIGHT-EMITTING MATERIAL, AND ORGANIC LIGHT-EMITTING DISPLAY PANEL	11/21/2019
16/875,606	AN AZULENE RING-CONTAINING COMPOUND, ITS USE, AND AN ORGANIC PHOTOELECTRIC DEVICE INCLUDING THE SAME	5/15/2020
16/731,757	COMPOUND, OLED DISPLAY PANEL AND ELECTRONIC DEVICE	12/31/2019
16/722,500	DOUBLE-SIDED DISPLAY PANEL AND DISPLAY DEVICE	12/20/2019
16/674,328	ORGANIC LIGHT EMITTING DISPLAY PANEL AND DISPLAY DEVICE	11/5/2019
17/238,108	DISPLAY PANEL AND DISPLAY APPARATUS INCLUDING THE SAME	4/22/2021
16/909,317	ARRAY SUBSTRATE, DISPLAY PANEL, AND DISPLAY DEVICE	6/23/2020
16/730,819	DRIVING METHOD OF A DISPLAY PANEL, DISPLAY DRIVING DEVICE AND ELECTRONIC APPARATUS	12/30/2019
16/710,929	ARRAY SUBSTRATE, DISPLAY PANEL AND METHOD FOR DRIVING PIXEL-DRIVING CIRCUIT	12/11/2019
16/730,175	SHIFT REGISTER, DRIVING METHOD THEREOF, DRIVING CONTROL CIRCUIT, AND DISPLAY DEVICE	12/30/2019
16/719,588	FLEXIBLE DISPLAY PANEL AND FLEXIBLE DISPLAY DEVICE	12/18/2019
16/674,759	DRIVING METHOD OF GATE DRIVING CIRCUIT, GATE DRIVING CIRCUIT AND DISPLAY DEVICE	11/5/2019
16/591,755	COMPOUND, OLED DISPLAY PANEL AND DISPLAY DEVICE	10/3/2019
16/591,895	COMPOUND, ORGANIC ELECTROLUMINESCENCE DEVICE AND DISPLAY DEVICE	10/3/2019
16/731,079	COMPOUND, ORGANIC ELECTROLUMINESCENT DEVICE AND DISPLAY EQUIPMENT	12/31/2019

16/586,987	COMPOUND, ORGANIC ELECTROLUMINESCENT DEVICE AND DISPLAY DEVICE	9/29/2019
16/590,297	COMPOUND AND ORGANIC LIGHT EMITTING DISPLAY DEVICE	10/1/2019
16/838,994	DISPLAY PANEL, METHOD FOR DRIVING THE SAME, AND DISPLAY DEVICE	4/2/2020
16/832,686	DISPLAY DEVICE	3/27/2020
16/719,733	CROSS-REFERENCE TO RELATED APPLICATIONS	12/18/2019
16/731,076	COMPOUND, ORGANIC ELECTROLUMINESCENT DEVICE AND DISPLAY DEVICE	12/31/2019
16/831,646	A COMPOUND AND ITS APPLICATION	3/26/2020
16/874,514	A COMPOUND, A DISPLAY PANEL AND AN ELECTRONIC DEVICE	5/14/2020
16/716,389	DISPLAY PANEL, METHOD OF MANUFACTURING THE SAME, AND DISPLAY APPARATUS	12/16/2019
16/885,139	COMPOUND, ORGANIC ELECTROLUMINESCENT DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS	5/27/2020
16/730,171	COMPOUND, ORGANIC ELECTROLUMINESCENT DEVICE, AND DISPLAY DEVICE	12/30/2019
16/730,337	COMPOUND, DISPLAY PANEL, AND DISPLAY DEVICE	12/30/2019
16/902,924	DISPLAY PANEL, DISPLAY DEVICE, AND PREPARATION METHOD THEREOF	6/16/2020
16/732,153	COMPOUND, DISPLAY PANEL, AND DISPLAY APPARATUS	12/31/2019
16/909,683	DISPLAY PANEL AND DISPLAY DEVICE	6/23/2020
16/727,552	DISPLAY PANEL AND FABRICATION METHOD THEREOF, AND DISPLAY APPARATUS	12/26/2019
16/896,026	DISPLAY DEVICE AND DISPLAY DRIVING METHOD FOR A DISPLAY PANEL	6/8/2020
16/828,608	DISPLAY DEVICE AND FABRICATION METHOD THEREOF	3/24/2020
16/922,566	A COMPOUND, A DISPLAY PANEL AND A DISPLAY DEVICE	7/7/2020
17/103,329	DISPLAY PANEL, DRIVING METHOD AND DISPLAY DEVICE	11/24/2020
17/001,852	SHIFT REGISTER AND SHIFT REGISTER CIRCUIT THEREOF, DISPLAY PANEL AND ELECTRONIC DEVICE	8/25/2020
17/011,944	DISPLAY PANEL, DRIVING METHOD THEREOF AND DISPLAY DEVICE	9/3/2020
17/035,952	COMPOUND, DISPLAY PANEL AND DISPLAY APPARATUS	9/29/2020

17/006,932	COMPOUND AND ORGANIC ELECTRO-OPTICAL DEVICE CONTAINING THE SAME	8/31/2020
17/036,158	COMPOUND, DISPLAY PANEL AND DISPLAY APPARATUS	9/29/2020
17/003,951	COMPOUND, DISPLAY PANEL AND DISPLAY APPARATUS	8/26/2020
17/011,997	COMPOUND, ORGANIC LIGHT-EMITTING ELEMENT INCLUDING THE SAME, DISPLAY PANEL AND DISPLAY DEVICE	9/3/2020
17/011,988	COMPOUND, AND ORGANIC LIGHT-EMITTING ELEMENT, DISPLAY PANEL AND DISPLAY DEVICE INCLUDING THE SAME	9/3/2020
16/097,937	OUTPUT CONTROL DEVICE, OUTPUT CONTROL CIRCUIT AND DISPLAY PANEL	8/20/2020
17/405,111	DISPLAY PANEL, METHOD FOR DRIVING DISPLAY PANEL, AND DISPLAY DEVICE	8/18/2021
17/212,394	DISPLAY PANEL, METHOD FOR DETECTING THE SAME AND DISPLAY DEVICE	3/25/2021
17/121,875	DISPLAY PANEL AND DISPLAY DEVICE	12/15/2020
16/941,386	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND ORGANIC LIGHT-EMITTING DISPLAY DEVICE	7/28/2020
17/558,970	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND DISPLAY APPARATUS	12/22/2021
16/944,106	PIXEL DRIVING CIRCUIT AND DRIVING METHOD THEREOF, DISPLAY PANEL AND DISPLAY DEVICE	7/30/2020
17/016,188	DISPLAY PANEL, DRIVING METHOD AND DISPLAY DEVICE	9/9/2020
16/916,590	DISPLAY PANEL AND DISPLAY DEVICE	6/30/2020
17/147,085	COMPOUND, ELECTRON TRANSPORT MATERIAL, DISPLAY PANEL AND DISPLAY APPARATUS	1/12/2021
17/006,616	DISPLAY PANEL, DRIVING METHOD THEREOF, AND DISPLAY DEVICE	8/28/2020
17/004,869	DISPLAY PANEL AND DRIVE METHOD THEREOF, AND DISPLAY DEVICE	8/27/2020
17/034,584	DISPLAY PANEL AND FABRICATION METHOD THEREOF, AND DISPLAY DEVICE	9/28/2020
17/020,274	DISPLAY PANEL AND DISPLAY DEVICE	9/14/2020
17/138,643	DISPLAY PANEL AND DISPLAY DEVICE	12/30/2020
17/213,000	ORGANIC LIGHT-EMITTING DISPLAY PANEL AND METHOD FOR DRIVING THE SAME, AND DISPLAY DEVICE	3/25/2021
17/136,402	DISPLAY PANEL, DRIVING METHOD OF DISPLAY PANEL, AND DISPLAY DEVICE	12/29/2020

17/138,925	SHIFT REGISTER AND DRIVING METHOD OF SHIFT REGISTER, GATE DRIVING CIRCUIT AND DISPLAY PANEL AND DEVICE	12/31/2020
17/161,692	ORGANIC COMPOUND, ELECTROLUMINESCENT MATERIAL, AND APPLICATION THEREOF	1/29/2021
17/123,980	ORGANIC COMPOUND, ELECTROLUMINESCENT MATERIAL AND APPLICATION THEREOF	12/16/2020
17/128,932	COMPOUND, DISPLAY PANEL AND DISPLAY APPARATUS	12/12/2020
17/217,317	DISPLAY PANEL AND ITS FABRICATION METHOD, AND DISPLAY DEVICE	3/30/2021
17/106,546	DISPLAY DEVICE AND DRIVING METHOD THEREOF	11/30/2020
17/376,340	DISPLAY PANEL, PACKAGED EVAPORATION SHADOW MASK, DISPLAY DEVICE AND PREPARATION METHOD	7/15/2021
17/203,430	DISPLAY PANEL AND DISPLAY CONTROL METHOD, AND DISPLAY DEVICE	3/16/2021
17/172,718	ARRAY SUBSTRATE, MOTHERBOARD OF ARRAY SUBSTRATE, DISPLAY PANEL, AND METHOD FOR FORMING DISPLAY PANEL	2/10/2021
17/215,494	DISPLAY PANEL AND MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE	3/29/2021
17/216,814	DISPLAY PANEL AND DISPLAY DEVICE	3/30/2021
17/210,783	DRIVE MODULE, VOLTAGE GENERATION METHOD THEREOF AND DISPLAY DEVICE	3/24/2021
17/136,032	DISPLAY DEVICE AND ELECTRONIC APPARATUS	12/29/2020
17/323,149	ARRAY SUBSTRATE, DISPLAY PANEL AND DISPLAY DEVICE	5/18/2021
17/229,876	DRIVING METHOD OF DISPLAY DEVICE AND DRIVING DEVICE	4/14/2021
17/197,007	PIXEL DRIVING CIRCUIT, AND DISPLAY PANEL AND DRIVING METHOD THEREOF	3/9/2021
17/191,891	DISPLAY PANEL AND CRACK DETECTION METHOD, AND DISPLAY DEVICE	3/4/2021
17/363,772	TOUCH DISPLAY PANEL AND TOUCH DISPLAY DEVICE	6/30/2021
17/370,715	TOUCH DISPLAY PANEL AND TOUCH DISPLAY DEVICE	7/8/2021
17/236,403	DISPLAY PANEL, DISPLAY DEVICE AND DRIVING METHOD OF DISPLAY PANEL	4/21/2021
17/215,984	DISPLAY SCREEN AND DRIVING METHOD OF DISPLAY SCREEN	3/29/2021
17/166,616	DISPLAY PANEL AND ELECTRONIC DEVICE	2/3/2021
17/236,281	DISPLAY PANEL AND DISPLAY DEVICE	4/21/2021

17/228,669	DRIVING METHOD AND DRIVING DEVICE OF A DISPLAY PANEL, AND DISPLAY DEVICE	4/12/2021
17/191,837	HETEROCYCLIC COMPOUND CONTAINING HETEROATOM SUBSTITUTED FLUORENE AND APPLICATION THEREOF	3/4/2021
17/530,239	TOUCH DISPLAY PANEL AND TOUCH DISPLAY DEVICE	12/2/2021
17/359,686	DISPLAY PANEL, DRIVING METHOD AND DISPLAY DEVICE	6/28/2021
17/233,537	MANUFACTURING METHOD OF DISPLAY PANEL, DISPLAY PANEL AND DISPLAY DEVICE	4/18/2021
17/193,881	DISPLAY PANEL AND DISPLAY DEVICE	3/5/2021
17/405,643	PIXEL DRIVING CIRCUIT, DRIVING METHOD, DISPLAY PANEL AND DISPLAY DEVICE	8/18/2021
17/365,251	ORGANIC COMPOUND, AND ELECTROLUMINESCENCE APPLICATION THEREOF	7/1/2021
17/204,347	WRISTBAND AND WRISTWATCH	3/17/2021
17/337,223	FLEXIBLE CIRCUIT BOARD, DISPLAY PANEL, AND INSULATING FILM	6/2/2021
17/224,123	FLEXIBLE CIRCUIT BOARD COMPONENT AND DISPLAY DEVICE	4/7/2021
17/364,855	COMPOUND, MATERIAL FOR AN ORGANIC ELECTROLUMINESCENT DEVICE AND APPLICATION THEREOF	6/30/2021
17/465,705	COMPOUND, MATERIAL FOR AN ORGANIC ELECTROLUMINESCENT DEVICE AND APPLICATION THEREOF	9/2/2021
17/515,771	PIXEL CIRCUIT AND DRIVING METHOD THEREOF	11/1/2021
17/367,158	DISPLAY PANEL AND DISPLAY APPARATUS	7/2/2021
17/406,891	DISPLAY PANEL AND DISPLAY DEVICE	8/19/2021
17/386,558	COMPOUND, MATERIAL FOR AN ORGANIC ELECTROLUMINESCENT DEVICE AND APPLICATION THEREOF	7/28/2021
17/366,339	SCANNING SIGNAL CIRCUIT, DISPLAY PANEL, DISPLAY DEVICE, AND DRIVING METHOD	7/2/2021
17/394,934	SCANNING DRIVE CIRCUIT, DRIVING METHOD, DISPLAY PANEL, AND DISPLAY APPARATUS	8/5/2021
17/406,016	DISPLAY PANEL AND DISPLAY DEVICE	8/18/2021
17/454,856	PIXEL CIRCUIT, DISPLAY PANEL AND DISPLAY DEVICE	11/15/2021
17/466,666	ARRAY SUBSTRATE, DISPLAY PANEL, AND DISPLAY APPARATUS	9/16/2021

17/399,446	STRETCHABLE DISPLAY PANEL AND CONTROL METHOD, AND DISPLAY DEVICE	8/11/2021
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