

SAMSUNG ELECTRONICS  
SIDE LETTER TO THE LOT AGREEMENT

THIS SAMSUNG ELECTRONICS SIDE LETTER TO THE LOT AGREEMENT (“Side Letter”) is entered into by and between Samsung Electronics Co., Ltd. (“Samsung Electronics”) and all other current and future LOT Users. This Side Letter amends the LOT Agreement attached as Attachment 1 (the “Agreement”) solely with respect to Samsung Electronics’ execution thereof. Capitalized terms used but not defined in this Side Letter have the meaning given in the Agreement.

WHEREAS, Samsung Electronics desires to enter the LOT Network while conditionally excluding its subsidiary, Samsung Display Co., Ltd. (“Samsung Display”) from LOT Network membership;

WHEREAS, Samsung Electronics had consolidated revenue of over US \$195 billion in its 2024 fiscal year;

WHEREAS, Samsung Display is a distinct operating company that is separately managed from Samsung Electronics and had consolidated revenue of over US \$18 billion in its 2024 fiscal year relating to the sale of display panels;

WHEREAS, by Samsung Electronics’ becoming a member of the LOT Network, over 210,000 Patents owned or licensable by Samsung Electronics would become Subject Patents pursuant to the Agreement; and

WHEREAS, pursuant to the procedures set forth in Exhibit B of the Agreement, this Side Letter must be approved through a vote of eligible LOT Users.

THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. **Effective Date of Agreement.** Samsung Electronics has submitted to the LOT Administrator an executed copy of the Agreement dated October 17, 2025 (the “SEC Effective Date”). Notwithstanding anything to the contrary in the Agreement, Samsung Electronics’ entry into the Agreement is expressly conditioned on the approval of this Side Letter pursuant to the procedures set forth on Exhibit B of the Agreement. Upon such approval, Samsung Electronics shall be deemed to have entered into the Agreement (subject to and as amended by the terms of this Side Letter) as of the SEC Effective Date. If this Side Letter is not so approved, Samsung’s execution of the Agreement shall be deemed void *ab initio*.

2. **Exclusion of Samsung Display.** So long as all of the following Exclusion Conditions remain accurate and correct in all respects during Samsung Electronics’ Participation Period, Samsung Display and any Entities Controlled by Samsung Display (the “SDC Subsidiaries”) will not be considered to be Affiliates of Samsung Electronics for purposes of the Agreement. As used herein, the “Exclusion Conditions” are the following:

- a. Samsung Display and the SDC Subsidiaries remain a non-Assertion Entity (with Samsung Electronics and its other Affiliates excluded from the definition of “Affiliates” for purposes of this determination and with respect to Samsung Display and the SDC Subsidiaries, this determination is made on whether Samsung Display and the SDC Subsidiaries collectively derived from Patent Assertion more than half of their total consolidated gross revenue measured over the full twelve (12) months preceding a particular date);
- b. Samsung Electronics and its Affiliates do not use or cooperate with Samsung Display or the SDC Subsidiaries for the purpose of attempting to avoid having Patents be subject to the Agreement.



3. **Scope of Subject Patents.** No Patent(s) owned or licensable by Samsung Display and/or the SDC Subsidiaries shall be considered Samsung Electronics' and/or its Affiliates' Subject Patents except for those that Samsung Electronics and/or its Affiliates (i) Transfer to Samsung Display and/or the SDC Subsidiaries on or after the SEC Effective Date; or (ii) have the right to grant licenses, releases, waivers and immunities within the scope set forth in the Agreement without Samsung Display's or the SDC Subsidiaries' consent. From time to time upon the LOT Administrator's reasonable request, Samsung Electronics will use reasonable best efforts to confirm whether any Patents identified by the LOT Administrator are Subject Patents.

4. **Term and Termination.** This Side Letter is effective as of the Effective Date and shall immediately terminate upon the earlier of the following: (a) any of the Exclusion Conditions are no longer met; (b) breach of Section 5 hereof, or (c) Samsung Display or Samsung Electronics provides written notice to the LOT Administrator that it wishes to terminate this Side Letter. Upon termination of this Side Letter, Samsung Display will be deemed an Affiliate of Samsung Electronics as of the termination date for purposes of the Agreement, with an independent Participation Period commencing on such date. For the avoidance of doubt, if (i) Samsung Electronics withdraws from the Agreement pursuant to Section 2.3 thereof prior to the termination of this Side Letter, or (ii) Samsung Electronics no longer Controls Samsung Display, then this Side Letter shall be of no further force and effect as of the effective date of Samsung Electronics' withdrawal or such loss of Control.

5. **Representations and Warranties.**

- a. Samsung Electronics represents and warrants that it and its Affiliates (other than Samsung Display and the SDC Subsidiaries) own (or can directly or indirectly license) at least 76,000 active issued US Patents as of the SEC Effective Date; and
- b. Samsung Electronics represents and warrants that, except as set forth on Schedule 1 attached hereto, neither Samsung Electronics nor its Affiliates have Transferred any Patents to Samsung Display and/or the SDC Subsidiaries during the 6-month period prior to the Effective Date.

6. **Indemnification.** Samsung Electronics, on behalf of itself and its Affiliates, covenants and agrees that it and they shall indemnify and hold each current and future LOT User harmless, and at any such LOT User's request, defend such LOT User, from and against any costs, damages, and fees (including attorney's fees) attributable to any claims or allegations brought by an Assertion Entity alleging that such LOT User and/or its Products or Services has infringed any Patents Transferred to Samsung Display and/or the SDC Subsidiaries by Samsung Electronics or any of its Affiliates less than 6 months prior to the Effective Date that are not listed on Schedule 1 attached hereto (such allegations and claims, collectively, the "Covered Claim").


Samsung Electronics shall provide all reasonable assistance, at Samsung Electronics' expense, to each current and future LOT User and/or its counsel in relation to the defense, remedy or mitigation of any Covered Claim. Samsung Electronics shall not, without such LOT User's prior written consent, make any admissions of liability, enter into any settlement that imposes any obligation on such LOT User, or publicize any settlement details relating to such LOT User. For the avoidance of doubt, Section 4 of the Agreement shall not apply to Samsung Electronics' obligations under this Section 6. Samsung Electronics obligations under this Section 6 shall survive the expiration or termination of this Side Letter.

7. **Miscellaneous.** Except as modified by this Side Letter, the Agreement shall remain in full force and effect. If there is any conflict between the terms of the Agreement and the terms of this Side Letter, the terms of this Side Letter shall prevail.

[SIGNATURE PAGE FOLLOWS]

SIGNATURE PAGE

By execution of this Side Letter through its duly authorized representative below, Samsung Electronics, on behalf of itself and its Affiliates (including Samsung Display and the SDC Subsidiaries), agree to be bound by its terms and conditions upon its approval pursuant to the procedures in Exhibit B of the Agreement.

Signature:   
Name: SUNGHWAN YOUN  
Title: Corporate VP  
Date: October 17, 2025



### Schedule 1

Samsung Advanced Institute of Technology (SAIT) is a research unit within Samsung Electronics Co., Ltd. (SEC). Formed in 1987, SAIT primarily performs research in connection with SEC's component (e.g., semiconductor) business. SAIT, however, also performs R&D work for other Samsung-related companies for monetary consideration. For many years, SDC commissioned and funded display-related research projects at SAIT. Historically, inventions generated from these research projects were first filed under SEC's name because the inventors are employed by SAIT, a research unit within SEC. These inventions are later assigned to SDC because SDC funded the research, and they are assigned in blocks as they issue as patents, usually once a year. This practice may be modified in the future to better reflect SDC's ownership rights with respect to these SAIT research projects, including but not limited to filing of these patents under SDC's name at the outset.

The following patent families and all current and future patent rights that claim priority to or share a common priority claim with such families in any jurisdiction (including provisional and non-provisional applications, continuations, divisionals, continuations-in-part, reissues, renewals, re-examinations, as well as foreign counterparts thereof) are the assets generated as a result of research funded by SDC at SAIT over the last six years and were recently transferred to SDC to make clear they are not Subject Patents via SEC's membership in LOT Network.

Title	Filing Date (yyyymmdd)	Application Number
NOVEL ORGANOMETALLIC MATERIALS FOR OLEDs AND OLED DEVICE USING THE SAME	20200326	US16/831700
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210820	US17/407626
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20200929	US17/036694
LIGHT-EMITTING DEVICE, METHOD OF MANUFACTURING THE SAME, AND OPERATING METHOD OF THE SAME	20220303	US17/686293
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20200930	US17/038021
COMPOSITION AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20210609	US17/343632
COMPOSITION AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20210315	US17/201067
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220111	US17/573006
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210312	US17/199666
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20210520	US17/325811
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210312	US17/199644
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210720	US17/380693
DISPLAY APPARATUS	20210719	US17/379314
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20210413	US17/229659

ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND DIAGNOSTIC COMPOSITION INCLUDING THE ORGANOMETALLIC COMPOUND	20220301	US17/683671
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND DIAGNOSTIC COMPOSITION INCLUDING THE ORGANOMETALLIC COMPOUND	20210916	US17/476662
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND DIAGNOSTIC COMPOSITION INCLUDING THE ORGANOMETALLIC COMPOUND	20211025	US17/509361
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210330	US17/217638
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND DIAGNOSTIC COMPOSITION INCLUDING ORGANOMETALLIC COMPOUND	20211027	US17/511998
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND DIAGNOSTIC COMPOSITION INCLUDING THE ORGANOMETALLIC COMPOUND	20211216	US17/552573
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND DIAGNOSTIC COMPOSITION INCLUDING THE ORGANOMETALLIC COMPOUND	20210721	US17/380666
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220307	US17/687932
POLYCYCLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20211119	US17/531331
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20220204	US17/592639
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210722	US17/382952
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220314	US17/693737
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220309	US17/690280
SENSOR-EMBEDDED DISPLAY PANEL AND ELECTRONIC DEVICE	20220421	US17/726027
IMAGING SENSOR AND DISPLAY DEVICE INCLUDING THE SAME	20220422	US17/727059
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220308	US17/689162
FILM AND LIGHT-EMITTING DEVICE INCLUDING THE SAME	20220524	US17/751855
COMPOSITION, LAYER INCLUDING THE COMPOSITION, LIGHT-EMITTING DEVICE INCLUDING THE COMPOSITION, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20220602	US17/830764
COMPOSITION, LAYER INCLUDING THE COMPOSITION, LIGHT-EMITTING DEVICE INCLUDING THE COMPOSITION, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20220610	US17/837109
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20220607	US17/833946
COMPOSITION, LAYER INCLUDING THE COMPOSITION, LIGHT-EMITTING DEVICE INCLUDING THE COMPOSITION, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20220602	US17/830770
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20211123	US17/533488



ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220301	US17/683665
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220303	US17/685741
SENSOR EMBEDDED DISPLAY PANEL AND ELECTRONIC DEVICE	20220513	US17/744084
SENSOR-EMBEDDED DISPLAY PANEL AND ELECTRONIC DEVICE	20220316	US17/696272
POLYCYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING POLYCYCLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20211201	US17/539417
COMPOSITION, LAYER INCLUDING THE COMPOSITION, LIGHT-EMITTING DEVICE INCLUDING THE COMPOSITION, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20220609	US17/836434
ORGANIC LIGHT-EMITTING DEVICE	20220708	US17/860399
ORGANOMETALLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20220627	US17/849829
CONDENSED CYCLIC COMPOUND, ORGANIC LIGHT EMITTING DEVICE INCLUDING CONDENSED CYCLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT EMITTING DEVICE	20220421	US17/725937
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220615	US17/841088
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20220301	US17/683653
ORGANOMETALLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND	20220405	US17/713688
CONDENSED CYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220421	US17/725942
CARBAZOLE-FLUORENE COMPOUNDS FOR ORGANIC PHOTOELECTRIC CONVERSION ELEMENT, DEVICE AND THEIR APPARATUS	20220705	US17/857709
VISIBLE LIGHT ABSORBING N-TYPE MATERIALS	20220729	US17/876973
ORGANOMETALLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20220111	US17/573018
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220303	US17/685695
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20220303	US17/685646
ORGANIC PHOTODIODE SENSOR WITH NARROW MULTI-BAND	20220628	US17/851775
HETEROCYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE HETEROCYCLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220112	US17/573736
COMPOSITION, LAYER INCLUDING THE COMPOSITION, LIGHT-EMITTING DEVICE INCLUDING THE COMPOSITION, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20220916	US17/932828
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20220304	US17/686941
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20220304	US17/686956
IODINE-DOPED TRANSPARENT CONDUCTIVE CUS FILM AND DEVICE	20220829	US17/898416
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20220915	US17/932421

ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20221024	US18/049019
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20221024	US18/049026
NEW N-TYPE ORGANIC SEMICONDUCTORS AND ORGANIC PHOTODIODES	20220928	US17/954986
ORGANIC LIGHT-EMITTING DEVICE	20221020	US18/048113
ORGANIC LIGHT-EMITTING DEVICE	20220222	US17/677381
ORGANOMETALLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20220525	US17/824212
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20221018	US18/047418
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20221020	US18/048200
HETEROCYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220520	US17/749462
COMPOUND, PHOTOELECTRIC DEVICE, ABSORPTION SENSOR, SENSOR EMBEDDED DISPLAY PANEL, AND ELECTRONIC DEVICE	20221118	US17/990134
MIXED LAYER, METHOD OF PREPARING THE MIXED LAYER, LIGHT-EMITTING DEVICE, AND ELECTRONIC APPARATUS	20221216	US18/067111
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20221208	US18/063149
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20221208	US18/063152
ORGANOMETALLIC COMPOUND, LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20221114	US18/055099
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20221222	US18/145084
QUINOLINE-TYPE COMPOUNDS AND PHOTOELECTRIC DEVICE, SENSOR AND ELECTRIC DEVICE INCLUDING THE SAME	20220614	US17/839751
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20230112	US18/153637
LIGHT-EMITTING DEVICE, ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE, AND MIXTURE	20230223	US18/173164
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20230223	US18/173162
ORGANIC LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20230222	US18/172615
HETEROCYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220908	US17/930434
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20230411	US18/298802
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230411	US18/298794
DONOR-ACCEPTOR TYPE PHOTOELECTRIC CONVERSION MATERIALS AND THEIR APPARATUS	20221103	US17/979967
ORGANOMETALLIC COMPOUND AND ORGANIC LIGHT EMITTING DEVICE INCLUDING THE SAME	20230322	US18/187985



ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230428	US18/309082
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230404	US18/295521
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME AND A COMPOSITION FOR DIAGNOSING INCLUDING THE SAME	20230525	US18/324037
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230602	US18/328324
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20230602	US18/328180
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20230602	US18/328193
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20221214	US18/065690
DISPLAY-EMBEDDED SENSOR BASED ON ORGANIC PHOTODIODE	20221104	US18/052719
DONOR-ACCEPTOR TYPE PHOTOELECTRIC CONVERSION MATERIALS AND THEIR APPARATUS	20221213	US18/065152
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20230602	US18/328303
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230628	US18/342885
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230629	US18/344055
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230728	US18/360944
CONDENSED CYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230109	US18/151703
HETEROCYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20221209	US18/063769
DISPLAY APPARATUS	20230202	US18/163504
DISPLAY APPARATUS	20230202	US18/163493
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20230728	US18/360960
COMPOSITION, LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20230728	US18/360967
LIGHT-EMITTING STRUCTURE, DISPLAY APPARATUS, AND METHOD OF MANUFACTURING THE DISPLAY APPARATUS	20230313	US18/120862
LIGHT-EMITTING DEVICE, DISPLAY APPARATUS, AND MANUFACTURING METHOD THEREOF	20230308	US18/118993
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230803	US18/364656
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230803	US18/364649
SINGLE-COMPONENT ORGANIC PHOTODIODE	20230515	US18/317400



ORGANIC LIGHT ABSORBING COMPOUNDS, ORGANIC PHOTOELECTRIC CONVERSION ELEMENTS, AND SENSORS	20230816	US18/450800
MULTI-WAVELENGTH LIGHT-EMITTING DEVICE AND METHOD OF MANUFACTURING THE SAME	20230627	US18/214736
LIGHT-EMITTING DEVICE	20221221	US18/085806
ORGANIC COMPOUND AND SENSOR AND SENSOR EMBEDDED DISPLAY PANEL AND ELECTRONIC DEVICE	20230818	US18/452069
HETEROCYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND DIAGNOSTIC COMPOSITION INCLUDING THE HETEROCYCLIC COMPOUND	20230828	US18/456826
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20230503	US18/311568
HETEROCYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230503	US18/311560
ORGANIC LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20230503	US18/311572
COMPOSITION, LIGHT-EMITTING DEVICE INCLUDING THE COMPOSITION, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20230503	US18/311579
CONDENSED CYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20221220	US18/068734
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20230503	US18/311575
CONDENSED CYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230504	US18/311993
MICRO-LIGHT EMITTING DIODE DISPLAY AND METHODS OF MANUFACTURING AND OPERATING THE SAME	20230207	US18/106855
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230915	US18/468039
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230629	US18/344069
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230915	US18/468015
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230927	US18/475799
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20230927	US18/475535
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20231027	US18/495925
SENSOR SYSTEM BASED ON FULL COLOR ORGANIC PHOTODIODE	20230825	US18/456001
DISPLAY-EMBEDDED SENSOR BASED ON ORGANIC PHOTODIODE	20230922	US18/472930
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20231103	US18/386835
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20231103	US18/386844
TRANSPARENT N-TYPE MATERIALS AND THEIR APPRATUS	20231206	US18/531205
LIGHT EMITTING DEVICE, DISPLAY APPARATUS INCLUDING THE SAME AND MANUFACTURING METHOD OF THE LIGHT EMITTING DEVICE	20230929	US18/375194
DISPLAY-EMBEDDED SENSOR BASED ON ORGANIC PHOTODIODE	20230901	US18/459942



ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20231121	US18/515929
A-D-A TYPE P-TYPE ORGANIC MATERIALS AND THEIR APPARATUS	20231218	US18/543512
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20231129	US18/522474
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20231128	US18/520739
ORGANIC LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20231227	US18/397231
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20231220	US18/390377
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20231220	US18/390268
COMPOSITION, LIGHT-EMITTING DEVICE INCLUDING THE COMPOSITION, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20240116	US18/413103
LIGHT-EMITTING DEVICE AND DISPLAY INCLUDING THE SAME	20230718	US18/223323
LIGHT EMITTING DEVICE AND DISPLAY APPARATUS INCLUDING THE SAME	20230807	US18/230858
NITRIDE-BASED SEMICONDUCTOR LIGHT-EMITTING DEVICE	20230720	US18/224255
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20231229	US18/400033
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20231229	US18/400042
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20231006	US18/482327
LIGHT SOURCE USING EPITAXIAL GROWTH AND METHOD OF MANUFACTURING THE LIGHT SOURCE	20231004	US18/376661
NANOROD LIGHT-EMITTING DEVICE, METHOD OF MANUFACTURING THE NANOROD LIGHT-EMITTING DEVICE, AND DISPLAY APPARATUS INCLUDING THE NANOROD LIGHT-EMITTING DEVICE	20240109	US18/408236
THIOPHENE-BASED PHOTOELECTRIC CONVERSION MATERIALS	20240223	US18/586047
HIGH MOLECULAR PACKING DENSITY PHOTOELECTRIC CONVERSION MATERIALS AND THEIR APPARATUS	20240226	US18/587280
RECOGNITION SENSOR BASED ON PHOTOELECTRIC CONVERSION COLOR FILTER	20240125	US18/422612
DISPLAY-EMBEDDED SENSOR WITH ORGANIC PHOTODIODE	20240314	US18/605134
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20240319	US18/609371
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20240322	US18/613454
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20240322	US18/613506
SYNTHESIS OF ZNMGO NANOPARTICLES INCLUDING CARBONATE LIGAND AND THEIR ELECTROLUMINESCENCE	20240513	US18/661790
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20240719	US18/778309
CONDENSED POLYCYCLIC COMPOUND, LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20240514	US18/663694
HETEROCYCLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20240729	US18/787326



HIGH YIELD AND HIGH EFFICIENT LUMINESCENT I-III-VI SEMICONDUCTOR NANOPARTICLES	20240808	US18/798008
SEMICONDUCTOR NANOPARTICLE, PRODCUTION METHOD THEREOF,ELECTRONIC DEVICE INCLUDING THE SAME	20240808	US18/797872
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20240726	US18/785229
QUANTUM DOTS CONTAINING ZN, GA AND S AND METHODS OF MANUFACTURING THE SAME	20240808	US18/797895
CONDENSED CYCLIC COMPOUND, LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20240730	US18/788508
LIGHT-EMITTING DEVICE AND METHOD OF MANUFACTURING THE SAME	20231214	US18/540513
QUANTUM DOT CONTAINING A UNIFORM SULFIDE SHELL	20240725	US18/783623
NANOROD LIGHT-EMITTING DEVICE, METHOD OF MANUFACTURING THE SAME, AND DISPLAY APPARATUS INCLUDING THE SAME	20240730	US18/788990
CONDENSED CYCLIC COMPOUND, LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20240924	US18/894588
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20240905	US18/825199
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20240904	US18/824412
QD INK COMPOSITION WITH NOVEL LIGAND STRUCTURE	20240913	US18/884655
LIGHT EMITTING DEVICE AND DISPLAY APPARATUS INCLUDING THE SAME	20240919	US18/890232
NANOROD LIGHT-EMITTING DEVICE, METHOD OF MANUFACTURING THE SAME, AND DISPLAY APPARATUS INCLUDING THE NANOROD LIGHT-EMITTING DEVICE	20240926	US18/897838
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20240919	US18/889888
SEMICONDUCTOR LIGHT-EMITTING DEVICE, METHOD OF MANUFACTURING THE SAME, AND DISPLAY APPARATUS INCLUDING THE SAME	20241121	US18/955332
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20241101	US18/934375
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20241101	US18/934332
SEMICONDUCTOR LIGHT-EMITTING DEVICE, MANUFACTURING METHOD THEREOF, AND DISPLAY APPARATUS INCLUDING THE SAME	20241126	US18/960967
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20241205	US18/969659
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20241205	US18/969606
INK COMPOSITION OF AIGS QD CONTAINING CHLORINE	20241210	US18/975300
HETEROCYCLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20241230	US19/005056
CONDENSED CYCLIC COMPOUND, LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20240710	US18/768358
CONDENSED CYCLIC COMPOUND, LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20240626	US18/754645



ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20241227	US19/003262
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20241227	US19/003249
METHOD FOR PREPARING VANADATE INCORPORATED MAGNESIUM OXIDE ZINC NANOPARTICLES AND ELECTROLUMINESCENT DEVICE CHARACTERISTICS	20250124	US19/036539
QUANTUM DOTS CONTAINING ZNTESE CORE WITH COMPOSITION GRADIENT	20250124	US19/036676
METHOD FOR SYNTHESIZING NA AND S INCORPORATED ZNMGO AND THEIR APPLICATION FOR ELECTROLUMINESCENCE	20250131	US19/042841
QUANTUM DOT INCLUDING SHORT CHAIN ZINC PRECURSOR	20250131	US19/042876
QD INK COMPOSITION WITH NOVEL LIGAND STRUCTURE	20250124	US19/036500
HIGH-STABILITY I-III-VI LUMINESCENCE SEMICONDUCTOR NANOPARTICLE	20250127	US19/037829
QUANTUM DOTS CONTAINING AG, IN, S AND METHODS OF MANUFACTURING THE SAME	20250207	US19/048366
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20250117	US19/027457
ORGANOMETALLIC COMPOUND, LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20250116	US19/023711
CONDENSED CYCLIC COMPOUND, LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE	20250117	US19/027913
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20250110	US19/016016
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20250117	US19/027401
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20250411	US19/176813
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20250115	US19/021491
ORGANOMETALLIC COMPOUND, LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20250115	US19/021424
QUANTUM DOT PARTIALLY INCLUDING AROMATIC LIGAND AND QD-LED DEVICE THEREOF	20250723	US19/277547
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20250117	US19/026956
HIGHLY UNIFORM BIPYRAMIDAL QD STRUCTURE	20250429	US19/193512
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20250116	US19/023751
ORGANOMETALLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20250902	US19/316972
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING DEVICE	20250814	US19/299552
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20250128	US19/038808
QD EMISSIVE LAYER MIXED WITH CONDUCTIVE CARBON BLACK NANOPARTICLES AND BLUE QD-LED DEVICE THERE OF	20250829	US19/314378



ORGANOMETALLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND	20250815	US19/300908
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20250520	US19/213196
NOVEL ORGANOMETALLIC MATERIALS FOR OLEDs AND OLED DEVICE USING THE SAME	20250915	US19/328995
ORGANO-ELECTROLUMINESCENT MATERIALS AND ORGANIC LIGHT-EMITTING DEVICE EMPLOYING THE SAME	20250915	US19/328499
NOVEL ORGANOMETALLIC MATERIALS FOR OLEDs AND OLED DEVICE USING THE SAME	20250915	US19/328516
NOVEL ORGANOMETALLIC MATERIALS FOR OLEDs AND OLED DEVICE USING THE SAME	20250905	US19/319931
NOVEL ORGANOMETALLIC MATERIALS FOR OLEDs AND OLED DEVICE USING THE SAME	20250912	US19/327007
NOVEL ORGANIC MATERIALS FOR OLEDs AND OLED DEVICE USING THE SAME	20250915	US19/328485
METHOD OF TREATING SEMICONDUCTOR NANOPARTICLE, SEMICONDUCTOR NANOPARTICLE, ELECTROLUMINESCENT DEVICE INCLUDING THE SAME	20250207	P20250016190
SEMICONDUCTOR NANOPARTICLE, PREPARATION METHOD THEREOF, AND ELECTRONIC DEVICE INCLUDING THE SAME	20250207	P20250016189
SEMICONDUCTOR NANOPARTICLE, PRODUCTION METHOD THEREOF, ELECTROLUMINESCENT DEVICE AND DISPLAY DEVICE INCLUDING THE SAME	20250306	P20250029322
NOVEL ORGANOMETALLIC MATERIALS FOR OLEDs AND OLED DEVICE USING THE SAME	20250912	US19/327002
CONDENSED CYCLIC COMPOUND, LIGHT EMITTING DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS INCLUDING THE LIGHT EMITTING DEVICE	20250522	P20250066878
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT EMITTING DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS COMPRISING ORGANIC LIGHT EMITTING DEVICE	20250509	P20250060440
HETEROCYCLIC COMPOUND, ORGANIC LIGHT EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS	20250516	P20250064044
HETEROCYCLIC COMPOUND, ORGANIC LIGHT EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS	20250605	P20250074000
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT EMITTING DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS COMPRISING ORGANIC LIGHT EMITTING DEVICE	20250527	P20250069178
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT EMITTING DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS COMPRISING ORGANIC LIGHT EMITTING DEVICE	20250714	P20250094804
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT EMITTING DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS COMPRISING ORGANIC LIGHT EMITTING DEVICE	20250731	P20250105404
CONDENSED CYCLIC COMPOUND, LIGHT EMITTING DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS INCLUDING THE LIGHT EMITTING DEVICE	20250821	P20250116719
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT EMITTING DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS COMPRISING ORGANIC LIGHT EMITTING DEVICE	20250905	P20250126882
ELECTROLUMINESCENT DEVICE, AND DISPLAY DEVICE COMPRISING THEREOF	20200306	P20200028627
QUANTUM DOT DEVICE AND QUANTUM DOT DISPLAY DEVICE	20210511	202110510733.X
QUANTUM DOTS AND DEVICES INCLUDING THE SAME	20210805	US17/394614
LIGHT EMITTING DEVICE. PRODUCTION METHOD THEREOF AND DISPLAY DEVICE INCLUDING THE SAME	20211101	US17/515652
LIGHT EMITTING DEVICE, METHOD FOR MANUFACTURING THE SAME, AND ELECTRONIC DEVICE INCLUDING THE SAME	20211109	US17/522316
LUMINESCENT FILM AND DEVICE INCLUDING THE SAME	20211228	US17/563143
LIGHT EMITTING DEVICE, METHOD FOR MANUFACTURING THE SAME, AND ELECTRONIC DEVICE INCLUDING THE SAME	20211101	US17/515784

LUMINESCENT NANOSTRUCURE, AND COLOR CONVERSION PANEL AND ELECTRONIC DEVICE INCLUDING THE SAME	20220304	US17/687543
LUMINESCENT NANOSTRUCURE, AND COLOR CONVERSION PANEL AND ELECTRONIC DEVICE INCLUDING THE SAME	20220304	US17/687448
LUMINESCENT NANOSTRUCURE, AND COLOR CONVERSION PANEL AND ELECTRONIC DEVICE INCLUDING THE SAME	20220304	US17/687453
QUANTUM DOT DEVICE, FILM HAVING MULTILAYERED STRUCTURE, AND ELETRONIC DEVICE	20220308	US17/689061
DISPLAY PANEL AND ELECTRONIC DEVICE INCLUDING THE SAME	20220304	US17/687451
DISPLAY PANEL AND ELECTRONIC DEVICE INCLUDING THE SAME	20220304	US17/686934
ELECTROLUMINESCENT DISPLAY DEVICE	20220317	US17/696956
QUANTUM DOT DEVICE AND ELECTRONIC DEVICE	20211006	US17/495162
QUANTUM DOT DEVICE AND ELECTRONIC DEVICE	20220328	US17/705617
QUANTUM DOT DEVICE AND ELETRONIC DEVICE INCLUDING THE SAME	20220330	US17/708245
QUANTUM DOT LIGHT EMITTING DIODE HAVING SMALL STARK SHIFT	20220628	US17/851211
QD COLOR CONVERSION PIXEL WITH STRONG OPTICAL ABSORPTION AND HIGH LUMINESCENCE EFFICIENCY	20220722	US17/871127
HIGH LUMINANCE QD MATERIAL FOR QD INK APPLICATION	20220706	US17/858417
QD-LED DEVICES WITH QD LIGAND-EXCHANGED WITH CARBAZOLE LIGAND	20220823	US17/893254
HIGHLY EFFICIENT BLUE-EMITTING QDS WITH UNIFORM SHELLS	20220825	US17/895253
SYNTHESIS METHOD OF LI DOPED MGSE NANOPARTICLE	20220829	US17/897609
INP OR INGAP CORE-BASED CORE/SHELL QUANTUM DOT STRUCTURES WITH STRONG OPTICAL ABSORPTION	20220906	US17/903242
TYPE-I STRUCTURED ZNTES BASED BLUE-EMITTING MATERIALS	20220927	US17/953533
LONG LIFETIME QDLED DEVICE WITH NEW INTERLAYER OR ETL NAMED HOLE BLOCK CONTROLLING LAYER (HBCL) WHICH APPLIED IONIC BLENDING TECHNOLOGY	20220930	US17/956956
PASSIVATION METHOD FOR THE INTERFACE BETWEEN QD LAYER AND ETL IN QD-LED	20221017	US17/966926
QD-LED WITH ORGANIC ACID-METAL SALT AS ADDITIVES IN ELECTRON TRANSPORT LAYER (ETL)	20221028	US18/050535
QD-LED DEVICES WITH QD LIGAND-EXCHANGED WITH CYANIDE CONTAINING LIGAND	20221121	US17/991017
INSERT LAYER FOR QUANTUM DOT DISPLAY	20221121	US18/057242
QD-LED COMPOSED OF ETL WITH LIQUID CRYSTAL MOLECULE	20221227	US18/146503
GREEN QD-LED DEVICE USING CORE-SHELL NANOPARTICLE WITH THICK MID-SHELL	20230126	US18/159871
LUMINESCENT COLLOIDAL METAL CHALCOGENIDE NANOPARTICLE	20230317	US18/185789
HIGHLY EFFICIENT LUMINESCENT I-III-VI SEMICONDUCTOR NANOPARTICLES	20230317	US18/185755
QUANTUM DOTS CONTAINING AG, IN, S AND METHODS OF MANUFACTURING THE SAME	20230317	US18/185810
QD COLOR CONVERSION PIXEL WITH STRONG OPTICAL ABSORPTION	20230324	US18/189259
PHOTOCATALYSIS-ASSISTED DIRECT OPTICAL PATTERNING	20240417	US18/637854
LIGHT-EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20231128	US18/520761
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20240307	US18/598530
LIGHT-EMITTING DEVICE, ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE, AND CONDENSED CYCLIC COMPOUND	20240829	US18/818813



THIN METAL DIFFUSION LAYER FOR QUANTUM DOT DISPLAY	20241220	US18/989576
LIGHT-EMITTING DEVICE AND ELECTRONIC DEVICE INCLUDING THE LIGHT-EMITTING DEVICE	20241223	US18/999092
WATER TREATED ELECTRON TRANSFER LAYER FOR QUANTUM DOT DISPLAY	20250103	US19/008842
AGING-FREE HIGH PERFORMANCE QD-LED WITH ZMO/ALD-AL <sub>2</sub> O <sub>3</sub> HYBRID ETL	20250120	US19/032432
QUANTUM DOT DISPLAY CONTAINING LOW TEMPERATURE CROSS-LINKABLE HOLE TRANSPORT LAYER	20250828	US19/312663
ALCOHOL POLYMER FOR QUANTUM DOT DISPLAY	20250103	US19/008825
LIGHT-EMITTING DEVICE, ELECTRONIC APPARATUS INCLUDING THE SAME, AND ORGANOMETALLIC COMPOUND	20250108	US19/013983
QUANTUM DOT ELECTROLUMINESCENT DEVICE COMPRISING MAGNESIUM OXIDE ZINC NANOPARTICLES HAVING CONTROLLED PARTICLE GROWTH	20241211	US18/977237
WIDE BAND-GAP METAL OXIDE FORMING METAL DOPED ZNS SHELL QD AND QD-LED DEVICE THERE OF	20250604	US19/227716
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20250807	US19/293165
ELECTROLUMINESCENT DEVICE, METHOD OF PRODUCING THE SAME, AND DISPLAY DEVICE INCLUDING THE SAME	20250124	P20250011951
LIGHT EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20250502	P20250058487
SEMICONDUCTOR NANOPARTICLE, PRODUCTION METHOD THEREOF, ELECTROLUMINESCENT DEVICE AND DISPLAY DEVICE INCLUDING THE SAME	20250401	P20250042135
LIGHT EMITTING DEVICE AND ELECTRONIC APPARATUS INCLUDING THE SAME	20250516	P20250063940
SILANE TREATED, SI-DOPED ZNS SHELL QD AND QD-LED DEVICE THERE OF	20250911	P20250130243
QD-LED COMPOSED OF CROSSLINKED SMALL MOLECULE HOLE TRANSPORTING MATERIALS	20230421	US18/304714
POLYMERIC ACID LAYER FOR QUANTUM DOT DISPLAY	20230710	US18/349485
COMBINATION OF BLUE HYPER OLED AND GREEN/RED QUANTUM DOTS WITH HIGH EFFICIENCY AND WIDE COLOR GAMUT	20230829	US18/457684
DOUBLE ANODE STRUCTURED QLED DEVICE	20230913	US18/368010
QD-LED WITH ZNS NANO PARTICLE MIXED UPPER LAYER	20230831	US18/240451
SYNTHESIS OF ZNMGO CORE/SHELL INCLOUDING GA AND THEIR APPLICATION FOR ELECTROLUMINESCENCE	20230908	US18/463385
HIGH EFFICIENCY QD-LED DEVICE WITH ZNS INTERLAYER	20231114	US18/508605
GAS CORE BASED BLUE-EMITTING QUANTUM DOTS	20231122	US18/517453
QUANTUM DOT INK COMPOSITION AND DISPLAY DEVICE USING THE SAME	20231116	US18/510968
QUANTUM DOT LIGHT EMITTING DEVICE WITH THE ENERGY LEVEL OF THE UPPER AND LOWER LIGHT EMITTING LAYERS CONTROLLED	20240105	US18/405428
BLUE EMITTING QUANTUM DOTS CONTAINING AG, IN, GA, S AND METHODS OF MANUFACTURING THE SAME	20231122	US18/517112
3-COMPONENT ZINC OXIDE NANOPARTICLE SYNTHETIC METHODS AND QD-LED DEVICES	20231229	US18/400128
SYNTHESIS OF ZNMGO COLLOIDAL NANOPARTICLE USING ORGANIC-INORGANIC ALKALI METAL HYDROXIDE AND APPLICATION IN QD-LED	20231229	US18/399957
BLUE QD-LED DEVICE USING A HIGHLY EFFICIENT QD WITH THICK ZNSE SHELL	20240118	US18/415796
HOLE TRANSPORT LAYER FOR QUANTUM DOT LEDS	20231117	US18/512352
NANOROD LIGHT EMITTING DEVICE, METHOD OF MANUFACTURING THE SAME, AND DISPLAY APPARATUS INCLUDING THE SAME	20211118	US17/529636
LIGHT EMITTING DEVICE, DISPLAY APPARATUS INCLUDING THE SAME, AND METHOD OF MANUFACTURING THE SAME	20220428	US17/731829

NANOROD LIGHT EMITTING DEVICE, SUBSTRATE STRUCTURE INCLUDING A PLURALITY OF NANOROD LIGHT EMITTING DEVICES, AND METHOD OF MANUFACTURING THE SUBSTRATE STRUCTURE	20220124	US17/582172
EPITAXY STRUCTURE INCLUDING A PLURALITY OF SEMICONDUCTOR DEVICES	20220414	US17/720872
NANOROD LED, DISPLAY APPARATUS INCLUDING THE SAME, AND METHOD OF MANUFACTURING THE NANOROD LED	20221017	US17/967318
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20200326	US16/830660
HETEROCYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220405	US17/713284
HETEROCYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20220829	US17/897297
CONDENSED CYCLIC COMPOUND AND ORGANIC ELECTROLUMINESCENT DEVICE INCLUDING THE SAME	20221221	US18/069381
CONDENSED CYCLIC COMPOUND, ORGANIC LIGHT EMITTING DEVICE INCLUDING CONDENSED CYCLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT EMITTING DEVICE	20230313	US18/182626
CHARGE TRANSPORT POLYMER AND ELECTROLUMINESCENCE DEVICE	20231013	US18/486624
CROSSLINKABLE CHARGE TRANSPORT POLYMER AND ELECTROLUMINESCENCE DEVICE	20231206	US18/530783
BLUE LUMINESCENT COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE	20240417	US18/638579
COMPOUND AND ORGANIC ELECTROLUMINESCENT DEVICE	20240409	US18/630198
SOLUTION-DEPOSITED ORGANIC HOLE TRANSPORT LAYERS FOR THIN-FILM MULTILAYER ELECTROLUMINESCENT DEVICES	20240520	US18/668414
COMPOUND AND ORGANIC ELECTROLUMINESCENT DEVICE	20241021	US18/921173
COPOLYMER, AND COMPOSITION, LIQUID COMPOSITION, AND ELECTROLUMINESCENT DEVICE INCLUDING THE COPOLYMER	20250326	US19/091056
COMPOUND AND ORGANIC ELECTROLUMINESCENT DEVICE	20250115	US19/021469
COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE	20250808	US19/294951
POLYMER COMPOUND, AND ELECTROLUMINESCENT MATERIAL, LIQUID COMPOSITION, AND ELECTROLUMINESCENT DEVICE COMPRISING INCLUDING THE POLYMER COMPOUND	20250326	US19/091425
POLYMER COMPOUND, ELECTROLUMINESCENCE DEVICE MATERIAL AND ELECTROLUMINESCENCE DEVICE INCLUDING THE POLYMERIC COMPOUND	20250326	US19/090797
INK COMPOSITION	20250127	JP2025-011325
COMPOSITION, ORGANIC FILM CONTAINING A CURED PRODUCT OBTAINED BY CURING THE COMPOSITION, AND ELECTROLUMINESCENT DEVICE CONTAINING THE ORGANIC FILM	20250415	JP2025-067073
LOW MOLECULAR WEIGHT COMPOUND, COMPOSITION CONTAINING THE LOW MOLECULAR WEIGHT COMPOUND, ORGANIC FILM CONTAINING A CURED PRODUCT OBTAINED BY CURING THE COMPOSITION, AND ELECTROLUMINESCENT DEVICE CONTAINING THE ORGANIC FILM	20250415	JP2025-067072
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20200326	US16/831696
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME AND DIAGNOSTIC COMPOSITION INCLUDING THE ORGANOMETALLIC COMPOUND	20200608	US16/895293
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20200910	US17/016806
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20201001	US17/060751



ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING ORGANOMETALLIC COMPOUND, AND ELECTRONIC APPARATUS INCLUDING ORGANIC LIGHT-EMITTING APPARATUS	20200929	US17/036769
ORGANOMETALLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20200929	US17/036088
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210513	US17/319489
ORGANOMETALLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME	20210309	US17/195743
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210427	US17/241230
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210322	US17/208189
ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND ELECTRONIC APPARATUS INCLUDING THE ORGANIC LIGHT-EMITTING DEVICE	20210722	US17/382919
QUANTUM DOTS AND COMPOSITE AND DISPLAY DEVICE INCLUDING THE SAME	20201109	US17/092368
QUANTUM DOTS, COMPOSITES, AND DEVICE INCLUDING THE SAME	20210312	US17/199613
QUANTUM DOT COMPOSITE AND ELECTRONIC DEVICE INCLUDING THE SAME	20210527	US17/331861
LIGHT EMITTING DEVICE AND DISPLAY DEVICE INCLUDING THE SAME	20210625	US17/358905
SEMICONDUCTOR NANOCRYSTAL-LIGNAD COMPOSITE, LIGHT-EMITTING FILM, PRODUCTION METHOD OF THE LIGHT-EMITTING FILM, LIGHT EMITTING DEVICE, AND DISPLAY DEVICE	20210505	US17/308344
COLOR FILTERS AND DEVICES INCLUDING THE SAME	20211209	US17/546268
A QUANTUM DOT, AND A COMPOSITE AND AN ELECTRONIC DEVICE INCLUDING THE SAME	20220128	US17/586956
NANOROD LIGHT-EMITTING DEVICE AND METHOD OF MANUFACTURING THE SAME	20210412	US17/227538
NANOROD TYPE MICRO-LED, PIXEL PLATE INCLUDING THE SAME, AND DISPLAY DEVICE AND ELECTRONIC DEVICES INCLUDING THE PIXEL PLATE	20210308	US17/195121
NANOROD LIGHT EMITTING DEVICE, METHOD OF MANUFACTURING THE SAME, AND DISPLAY APPARATUS INCLUDING THE SAME	20210310	US17/197326