507347756 06/22/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7394678

SUBMISSION TYPE:	NEW ASSIGNMENT
	PLEDGE OF PROTECTION OF THE TRADE SECRETS AND OTHERS WITH ENGLISH TRANSLATION AND EXECUTED ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALEXANDER VORONOV	10/08/2021
HYUNGSIK KIM	10/08/2021
SUNGGYU PARK	10/08/2021
JUNGHWA YOU	10/08/2021
JOONGSUNG LEE	10/08/2021
WOOHYUN JUNG	10/08/2021

RECEIVING PARTY DATA

Name:	SAMSUNG DISPLAY CO., LTD.
Street Address:	1, SAMSUNG-RO, GIHEUNG-GU
City:	YONGIN-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	17113

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17529736

CORRESPONDENCE DATA

Fax Number: (860)286-0115

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: 8602862929

Email: usptopatentmail@cantorcolburn.com

Correspondent Name: JAMES J. MERRICK, CANTOR COLBURN LLP

Address Line 1: 20 CHURCH STREET, 22ND FLOOR

Address Line 2: 21C1201US

Address Line 4: HARTFORD, CONNECTICUT 06103

ATTORNEY DOCKET NUMBER:	21C1201US
NAME OF SUBMITTER:	JAMES J. MERRICK
SIGNATURE:	/James J. Merrick/
DATE SIGNED:	06/22/2022

PATENT 507347756 REEL: 060392 FRAME: 0827

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Pledge of Protection of the Trade Secrets and Others

With regard to the protection of trade secrets and others as an executive and/or employee of Samsung Display Co., Ltd. (hereinafter referred to as the "Company"), I hereby pledge as follows.

- I shall strictly abide by, while working at the Company, the Company's various regulations, guidelines and policies related to the protection of technical and/or managerial information useful for the Company's production methods, sales methods, and other business activities, which are kept secret and are not publicly known and have independent economic value.
- 2. I shall not copy, photograph, record, duplicate (including reproducing, editing, processing, etc., information acquired during work in the form of documents, drawings, etc.), store, transmit the Company's trade secrets (hereinafter collectively referred to as the "Trade Secrets"), leak, disclose and/or utilize them to any third party inside and outside the Company by means of any unauthorized storage media, leak the Trade Secrets outside the designated place without the Company's prior permission, delete the Trade Secrets from the Company, keep holding them even after request for return, which include the following information, for any reason, except for using them for the designated duties related to my job during my tenure at work.

(However, excluded are cases where the Company's prior written consent is given or permitted in accordance with the regulations related to the protection of the Trade Secrets.)

- (1) Contents regarding product research and development (R&D) planning work reports and journals, experimental data, information pertaining to research and development, such as research performance and analysis data
- (2) Technical information such as product design methods, drawings, manufacturing processes, manufacturing equipment, computer programs, design and development samples related to manufacturing, etc.
- (3) Management information including HR, personnel organizations, marketing and financial management, sales statistics, sales plan, M&A strategy and list of customers and partners, etc.
- (4) Personal information handling by the Company including client information and executives and/or employees information
- (5) All information and documents that the Company otherwise wants to protect under all the Articles
- 3. I shall never access or use any unauthorized information or facilities, information and communication networks (including internet, hereinafter the same shall apply), PC and system, etc., that I shall surely comply with the Company's security regulations and guidelines.
- 4. I have been informed of a series of security systems and security programs (access, asset carry-in/out, CCTV management, information and communication networks access management, PC usage management, file encoding, printout management and in-house mobile camera regulation etc.) operated by the Company; and I hereby agree to record, store and utilize (when it is necessary) the history through the Company's security systems and security programs for the following purposes.
 - (1) Protection and prevention of the leakage of trade secrets, etc.
 - (2) Smooth operation and maintenance of information and communication networks
 - (3) Blocking of misuse and non-business use of company assets
- 5. I hereby agree that that the file and e-mails (the purpose of business support and personal both) created or transmitted externally through the Company assets, PC or information and communication networks provided by the Company shall be secured, stored, viewed, copied, decrypted and deleted for the purposes of the preceding paragraph.
- 6. I hereby admit that the Company has all rights to possess, use, and dispose of technology and information invented, discovered, developed, designed and/or devised independently or jointly with a third party in relation to my job during employment, and I shall not use them for the benefit of myself and/or a third party without the Company's prior written consent even during employment or after retirement.
- I will not take any civil and criminal liability to the Company in connection with the trade secrets of third party such as using trade secrets owned by third
 parties without prior written consent from the relevant third party.
- 8. I shall actively cooperate with the Company by directly filling out all documents or files required such as drawings, specifications, confirmation, etc. or supporting the preparation of the Company or its agent according to the Company's request, if the Company takes legal protection measures for the related rights, such as filing intellectual property rights and others, or transfers the rights to a third party in relation to my duties, not only during my employment but also after my retirement.
- At the time of my retirement, I shall return to the Company all materials that contain matters related to the Company's Trade Secrets, such as charts, design
 drawings, specifications, documents, memos, notes, business notebooks, magnetic tapes, disks, files, PC and other recording media, and I shall not retain any
 copies of them in any form.
- Even after my retirement, I shall not leak, use, and/or disclose the Trade Secrets acquired or learned during my employment to a third party in any way without the Company's prior consent.
- 11. I will not do any of the following activities, such as starting or working for domestic and foreign competitors, (LGD, BOE, Apple, Foxconn, Sineva; Equipment affiliate company of BOE, CMI, Hannstar, CSOT, Tianma, IVO, EDO, Visionox(GVO), Truly, Royole, CEC-Panda, JDI, Sharp etc.), which may leak or be used the Company's trade secrets for at least two(2) years from my retired date.
- (1) The act of establishing a competitor in any form; Direct * Indirect joint venture, Partnership, business cooperation and Contracting-out Management, etc.
- (2) Employing a competitor (as shareholder, partner, director, auditor, agent, consultant, advisor, executive or/and employee and any other forms that including participation in management and conduct of duties)
- (3) Indirect employment; even taking a form of employment in research institutes, schools, and partner companies of competitors, etc., but in practice, that of providing advice, consulting, and subcontracting services for competitors by employing them through their mediation or recommendation
- (4) The act of providing service, information and technology or related work to the competitors in any form; such as consignment service, subcontract, entrustment, representing or work assistance.

In case I engage in any form of for-profit activities such as start-up or employment during this period, I will notify the Company before employment or start-up to check violation of Non-competition obligation in this pledge and obtain consent from the Company.

12. I will not engage in any act of recruiting, recommendation, luring, persuading or encouraging that form employment and/or other business relationships with competitors to the executives and the employees of the Company, either directly or through third parties, not only during my employment but also after my retirement.

- 13. In the event of violating each Article in the Pledge, I shall be subject to disciplinary actions in accordance with the Company's relevant regulations, and be liable for all civil and/or criminal liabilities, including compensations for damages, etc.
- 14. In the event of violating the Article in the Pledge without consent of the Company, I agree that the Company may file a lawsuit to a court in the Republic of Korea or a competent court of the competitor in question.

Original text: I bereby confirm that I have carefully read the above 14 Articles, and then put my signature hereto.

Handwriting: I hereby confirm that I have carefully read the above 14 Articles, and then put my signature hereto.

Employee Number: 12403706

Name: Gyoowan HAN

List of the Trade Secrets

In relation to the Pledge of Protection of the Trade Secrets and Others for executives and/or employees, I shall hereby prepare and submit a list of the Trade Secrets as follows:

X Cautions When Preparing a List of the Trade Secrets

Please describe in detail technical and/or managerial information and related data (in whole) for major duties from the time of joining the Company to the present in accordance with the trade secret standards specified in the Pledge of Protection for the Trade Secrets and Others.

- 1. Laser drilling Equipment
- 2. Laser Etcher Equipment for HIAA(Hole In Active Area)
- 3. Laser Cutting (Youm)
- 4. Laser Patterned Mask Equipment
- 5. Laser Surface Treatment System
- 6. ELA (Excimer Laser Annealing)
- 7. SLA (Solid Laser Annealing)
- 8.
- 9.
- 10.
- 11.
- 12.

(Example) 1. Panel design technology (CSTN), MASK inspection technology

2. Outsourcing company, corporate site, capacity, yield, TAT, utilization rate information

The Trade Secrets that I know shall not be limited to the list above.

March 22, 2019

Employee Number: 12403706

Name: Gyoowan HAN

To Samsung Display Co., Ltd.

8 各位内心器成功 李山家林(内部"刘木")用 农利君皇皇内 经给制理 器单 足文學 经营收的 中名的 表的 人名德比尔

혼인은 회사 독적 중 공공연칙 양격된 있지 아니하고 독립된 경제적 가치를 가지는 것으로서, 비밀로 관리된 회사의 청간방법, 콘테팅법 기타 양업통동에 유용한 기율상 또는 검영상 정보의 보호의 관련된 회사의 각종 규정, 지점, 본업은 제작 중 다음의 정보를 포함하는 회사의 영업비법(이라 합하여 "영업비밀 등)총 본인의 직우의 권헌 되는 召录器 数本面 医李奇线蛋白点

기장된 있두에 사용하는 경우을 제외하고는 이때한 사유료도 입되로 이를 복시, 항일, 녹음, 목재(영우 중 기독한 정보를 문서, 도면 등으로 재생산, 연절, 가공하는 형태를 포함), 보관, 건송하거나 여기받지 않은 저장매제를 이용한 昆形,属人 电路角 网络邓姆州 李鑫,波涛 是出 人名勒雷 整骨,戴木里 小器 战争 致命 多锰的紫紫 不看起 苍衣 特丘克 무단으로 유출하는 말채의 행력, 회사로부터 영업비형 삭제, 반환 요구발교도 이쭐 계속 보유하는 행위·등용 하다. 않겠습니다. (다만, 회사의 사전 시원중의가 있거나 엉얼비밀보호 관련 규정에 크해 허용된 경우는 예외로 함)

(1) 渐衰 也于对数(RSD) 对案,站台社总科 罗 劉지의 林寨,位置珠司时,妇子表动 是有对是"等 他于准数师 初色 法总(2) 杨寨 成为智慧,王程,郑太晏领、承太晏对《郑文马 碧色岩 智者用 压集口管,即将的《邓敦州是,第 7会会与 答定(3) 包朴、杰为,印度号,福平进出,伊斯等语,伊姆利率,2004代学,刘明元의 冀荷小 男羊 等 法经合与 答定

(4) 교객과 임직원 정보 기억 회사가 차리하는 개인정보

(5) 기타 회사가 전쟁에 의거하여 보호하고자 하는 요즘 정보 및 문서

본단은 제가받지 않은 정보, 서울, 정보총산병(단타첫 보함, 이타 골음), PC, 시스템 등에 무단으로 급근하기다 사용하기 않고, 회사의 보안타 관련된 규정, 지점을 철자히 준수하겠습니다.

콘텐은 높임 및 자산 변출의 관리, CGTV 운영, 정보충산당 점속 관리, PC 사용 관리, 파팅 영호화, 총력을 구 사내 오바일 카메라 통제 등 회사가 운영하고 있는 집합의 보단시스템과 보안프로그램에 대해 안내되었으며, 爾曼 医哈利氏管膜 医巴巴曼山宫原本 建砂、全角角等 田藏器 奥木刀 口条点 集准器 的复数 生食物的

철오시 성관하는 것의 대해 동의합니다.

(1) 정업비법 등의 보호, 유출병지 (2) 정보옵션인의 검찰한 운영, 유지 (3) 최사 자신의 오남용 및 업무의 사용 자연 본인은 의무로 반출하는 회사의 자신이나 회사에서 제공한 PC 또는 정보옵션당 등을 통해 광성 또는 의무료 전송하는 母景,没有嘴鬟(管皇帝 및 邓伯嘉)年 妻皇 刘从(邓小) 齊辱管 제3지 张鬟)가 色象의 基本企業 出货咨询,出货商的

했죠서 없함, 복사, 알호화 해제, 낙제 복구하는 것에 대해 용의합니다. 문업은 제작 중 작무와 관련하여 목자적으로 또는 제3자의 공동으로 방병, 방견, 개발, 성계, 고원한 기송의 정보 및 이제 준하는 건출용에 관련 소유, 사용, 제문 등 말제의 캐러는 회사에 있음을 입정하여, 재작 층 또는 띄작 이후라도 최자의 사전 서면등의 없이는 본인 또는 제3자의 이익을 위하여 대중 이용하지 망갯습니다. 본만은 제3자기 소유하는 영업비및 동을 당해 제3자의 가전 서면 동의없이 업무에 사용하는 등 제3자의 영업비및 등과 본인은 재작 충분 물론 되사 이후에도, 본인의 남당 업무와 관람하여 회사가 지식재산권의 출원 등 관관 관리의 법칙 관문하여 회사에 만·청사상 작업이 발생할 가능성이 있는 형위를 힘질 하지 않겠습니다

기획대체 등 회사의 성업비용 등과 관련을 사람이 높이 있는 임체의 자료을 회사에 반납하고, 이에 관한 미대한 창태의 보호조치를 취하거나 하당 관리를 제3자에게 알도하는 경우, 최사교회에 따라 도면, 병세서, 확인서 등 그에 높요함 적만 문서나 사주를 작업 작성하기나, 회사 또는 그 대라인의 작성업무를 가원하는 등 적극 함조하겠습니다. 전면을 퇴적 시 분인이 관리하고 있던 도표, 성제도, 명세서, 문서, 노트, 자기벡이트, 디스크, 파일, PG 기타 古古母教館 医梅毒苗 医基代

나 이후에도 재적 중에 취득하거나 알게 곧 엉엉비밀 등을 회사의 시선동의 없이 어떠할 행동으로도

경비계점서 Singra, OMI, Hannstar, CSOT, Timma, 190, EDS, Visionox(GVO), Truly, Moyote, USC-뿐다. 누성, 사용하거나 공개하지 않겠습니다 나 후 2년간 회사의 경험되밀 등이 누설되거나 이용될 기능성이 되는 국내의 경쟁법제(160) 1805, Apple, 等) 验留, 格姆 等 印建四 號名器 如石 說就会与中

资单组 数4字47,Partnetship,包字数每,名与266 含 60回往 数46条 复表对正 多数包外卷 数据的中 数名 책에 취업하는 행위(회사의 주주, Partner, 이사, 감사, 데리인, 자문역, 교문역, 임직원, 기타 형택품

这段数据,但有个部 建型物 医物质氏》 REEL: 060392 FRAME: 0832

, 학교, 경쟁업체의 철력회사 등에 취업하는 행식을 취하시만 싶겠적으로는 경쟁업체의 양선, 증계를 통해 요로써 경쟁업체을 위한 자유, 건설명, 도급업무 등을 수행하는 우의 취임 형취 공학위탁, 도급, 부임, 대리, 임무보조 등 이러한 형태를 통운하고 경쟁업체에게 노무, 정보, 가술 또።

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case Surface Treatment Systom lass batterned Mark Line ". HIAA & LOSS Etenen Aus) 3 - (Rem Cutting (Youm) . Laser Willing KND

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21C1201US LO-202008-127-1-US0 DY8262US 21세기복허법률사우소

Confidential and Privileged

DECLARATION AND ASSIGNMENT

litte of	Invention: GLASS AND METHOD OF MANUFACTURING THE SAME
As a bel	ow named inventor, I hereby declare that:
	This declaration is directed to:
	[X] the attached application (Attorney Docket Number 21C1201US), or
	[] United States application or PCT international application number filed on
	The above-identified application was made or authorized to be made by me.
the appl	I believe that I am the original inventor or an original joint inventor of a claimed invention in cation.
	I have reviewed and understand the contents of the application, including the claims.
	am aware of the duty to disclose to the United States Patent and Trademark Office all

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION"):

information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, Samsung Display Co., Ltd., a corporation of Country of Korea having a place of business at 1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Republic of Korea (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby scknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the INVENTION, to ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns.

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21세기특허법률사무소

Confidential and Privileged

patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal Name of Inventor: ALEXANDER VORONOV Signature:	Date: 21, 10, 08
Legal Name of Inventor: HYUNGSIK KIM Signature 44 My 5+ V (C1	Date 10/8/21
Legal Name of Inventor: SUNCGYU PARK Signature:	Date:
Legal Name of Invenior: JUNGHWA VOU Signature:	Date: 2/_ 10 . Sf
Legal Name of Inventor: JOONGSUNG LEE	21, 10, 08 Date:

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