

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5595415

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## CONVEYING PARTY DATA

Name	Execution Date
PANASONIC CORPORATION	03/08/2019

## RECEIVING PARTY DATA

Name:	SOVEREIGN PEAK VENTURES, LLC
Street Address:	1400 PRESTON ROAD
Internal Address:	SUITE 400
City:	PLANO
State/Country:	TEXAS
Postal Code:	75093

## PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6889189

## CORRESPONDENCE DATA

Fax Number: (408)773-6177

*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: 866-877-4883

Email: patents@ascendalaw.com

Correspondent Name: ASCENDA LAW GROUP

Address Line 1: 333 W. SAN CARLOS ST.

Address Line 2: SUITE 200

Address Line 4: SAN JOSE, CALIFORNIA 95110

ATTORNEY DOCKET NUMBER: 5109-SOV-1972

NAME OF SUBMITTER: TAREK N. FAHMI

SIGNATURE: /Tarek N. Fahmi/

DATE SIGNED: 06/27/2019

## Total Attachments: 44

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PATENT

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## ASSIGNMENT AGREEMENT

This Assignment Agreement (the "Agreement") is made and entered into this 8th day of March, 2019 (the "Effective Date"), by Panasonic Corporation, a Japanese corporation, having an address at 1006 Oaza Kadoma, Kadoma-shi, Osaka 571-8501, Japan ("Assignor") and Sovereign Peak Ventures, LLC, a Texas limited liability corporation having and address at 1400 PRESTON ROAD, SUITE SUITE 400 PLANO, TX 75093 ("Assignee").

### RECITALS

A. Assignor is the owner of (select as appropriate):

- the United States Patents set forth on Exhibit A hereto (the "US Patents");
- the non-United States patents set forth on Exhibit B hereto (the "Foreign Patents");
- the United States patent applications set forth on Exhibit C hereto (the "US Patent Applications");
- the United States provisional patent applications set forth on Exhibit D hereto (the "US Provisional Patent Applications"); and/or
- the foreign patent applications set forth on Exhibit E hereto (the "Foreign Patent Applications");

which collectively shall be referred to herein as the "Patents".

B. Assignor and Assignee have agreed by way of a purchase agreement (the "Purchase Agreement") dated March 4, 2019, by and between Assignor and Assignee, the terms of which are incorporated herein by reference, that Assignor shall sell, transfer, and assign and set over unto Assignee and Assignee shall accept, all rights, title and interest in and to the Patents, and previously executed an Assignment Agreement dated March 8, 2019, to that effect. Assignor and Assignee later determined that some of the Patents listed in the schedules to the March 8, 2019 Assignment Agreement were misidentified; accordingly, Assignor and Assignee now wish to restate the assets being transferred. In the event of any conflict between the terms of this Patent Assignment Agreement and the referenced Purchase Agreement, the terms of the Assignment Agreement shall prevail,

### AGREEMENT

NOW, THEREFORE, in consideration of the foregoing premises, and the covenants and agreements in this Assignment, Assignor and Assignee agree as follows:

I. Assignor does hereby sell, transfer, convey, assign and deliver to Assignee all of Assignor's right, privilege, title and interest in, to and under the Patents and in the case of patent applications in and to any patents that may issue therefrom, including, in all instances, any counterparts of any of the foregoing in any jurisdiction throughout the world, and any and all divisions, continuations, reissues or reexaminations of any of the foregoing, and, further, all applications for industrial property protection, including without limitation, all applications for patents, utility models, copyright, and designs which may hereafter be filed



for any inventions described in said Patents in any country or countries, together with the right to file such applications and the right to claim for the same the priority rights derived from the inventions and the Patents under the laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable, in each instance the same to be held by Assignee for Assignee's own use and enjoyment, and for the use and enjoyment of Assignee's successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment and sale had not been made; together with all claims for damages, royalties, income or other remuneration (hereinafter "Damages") by reason of past, present and future infringements of the Patents or other rights being assigned hereunder, along with the right to sue for and collect such Damages for the use and benefit of Assignee and its successors, assigns and other legal representatives.

2. Insofar as this assignment concerns European patents and patent applications, Assignor does hereby declare that it is the owner of said Patents and that Assignor has assigned same, along with all rights and duties appurtenant thereto, to Assignee and agree that the assignment will be recorded in the register with the European Patent Office; and Assignee hereby declares that Assignee has agreed to the assignment of the aforementioned Patents to it and that Assignee will simultaneously apply for recording of the assignment in the register with the European Patent Office.

3. Assignor hereby authorizes and requests the Commissioner for Patents of the United States, and any officer of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to Assignee and its successors, assigns and other legal representatives in accordance with the terms of this instrument.

4. Assignor agrees that, whenever reasonably requested by Assignee, Assignor will execute all papers, take all rightful oaths, and do all acts which may be reasonably necessary for securing and maintaining the Patents in any country and for vesting title thereto in Assignee, its successors, assigns and legal representatives or nominees.

**5. ASSIGNOR AUTHORIZES AND EMPOWERS ASSIGNEE, ITS SUCCESSORS, ASSIGNS AND LEGAL REPRESENTATIVES OR NOMINEES, TO INVOKE AND CLAIM FOR ANY APPLICATION FOR PATENT OR OTHER FORM OF PROTECTION FOR THE INVENTIONS, THE BENEFIT OF THE RIGHT OF PRIORITY PROVIDED BY THE INTERNATIONAL CONVENTION FOR THE PROTECTION OF INDUSTRIAL PROPERTY, AS AMENDED, OR BY ANY CONVENTION WHICH MAY HENCEFORTH BE SUBSTITUTED FOR IT, OR ANY OTHER INTERNATIONAL AGREEMENT OR THE DOMESTIC LAWS OF THE COUNTRY IN WHICH ANY SUCH APPLICATION IS FILED, AS MAY BE APPLICABLE, AND TO INVOKE AND CLAIM SUCH RIGHT OF PRIORITY WITHOUT FURTHER WRITTEN OR ORAL AUTHORIZATION FROM ASSIGNOR.**

**6. ASSIGNOR HEREBY ACKNOWLEDGES AND AGREES THAT ALL OF THE RIGHTS, TITLE AND INTEREST IN AND TO THE PATENTS SOLD, TRANSFERRED, ASSIGNED AND SET OVER TO ASSIGNEE HEREUNDER INCLUDE ALL INCOME, ROYALTIES, DAMAGES AND PAYMENTS NOW OR HEREAFTER DUE OR PAYABLE WITH RESPECT THERETO, AND ALL CAUSES OF ACTION (WHETHER IN LAW OR EQUITY) AND THE RIGHT TO SUE, COUNTERCLAIM, AND RECOVER FOR THE PAST, PRESENT AND FUTURE INFRINGEMENT OF THE RIGHTS**



described in said Patents in any country or countries, together with the right to file such right to claim for the same the priority rights derived from the inventions and the laws of the United States, the International Convention for the Protection of Industrial or international agreement or the domestic laws of the country in which any such as may be applicable, in each instance the same to be held by Assignee for Assignee's intent, and for the use and enjoyment of Assignee's successors, assigns and other legal fully and entirely as the same would have been held and enjoyed by Assignor if this ; had not been made; together with all claims for damages, royalties, income or other nafter ("Damages") by reason of past, present and future infringements of the Patents or signed hereunder, along with the right to sue for and collect such Damages for the use nee and its successors, assigns and other legal representatives.

ignment concerns European patents and patent applications, Assignor does hereby owner of said Patents and that Assignor has assigned same, along with all rights and tereto, to Assignee and agree that the assignment will be recorded in the register with Office; and Assignee hereby declares that Assignee has agreed to the assignment of the its to it and that Assignee will simultaneously apply for recording of the assignment in European Patent Office.

authorizes and requests the Commissioner for Patents of the United States, and any y or countries foreign to the United States, whose duty it is to issue patents or other intellectual property protection or applications as aforesaid, to issue the same to ccessors, assigns and other legal representatives in accordance with the terms of this

at, whenever reasonably requested by Assignee, Assignor will execute all papers, take l do all acts which may be reasonably necessary for securing and maintaining the y and for vesting title thereto in Assignee, its successors, assigns and legal miness.

**FORIZES AND EMPOWERS ASSIGNEE, ITS SUCCESSORS, ASSIGNS AND LEGAL  
; NOMINEES, TO INVOKE AND CLAIM FOR ANY APPLICATION FOR PATENT OR OTHER  
N FOR THE INVENTIONS, THE BENEFIT OF THE RIGHT OF PRIORITY PROVIDED BY THE  
JVENTION FOR THE PROTECTION OF INDUSTRIAL PROPERTY, AS AMENDED, OR BY  
HICH MAY HENCEFORTH BE SUBSTITUTED FOR IT, OR ANY OTHER INTERNATIONAL  
DOMESTIC LAWS OF THE COUNTRY IN WHICH ANY SUCH APPLICATION IS FILED, AS  
AND TO INVOKE AND CLAIM SUCH RIGHT OF PRIORITY WITHOUT FURTHER WRITTEN  
TION FROM ASSIGNOR.**

**' ACKNOWLEDGES AND AGREES THAT ALL OF THE RIGHTS, TITLE AND INTEREST IN  
; SOLD, TRANSFERRED, ASSIGNED AND SET OVER TO ASSIGNEE HEREUNDER INCLUDE  
S, DAMAGES AND PAYMENTS NOW OR HEREAFTER DUE OR PAYABLE WITH RESPECT  
AUSES OF ACTION (WHETHER IN LAW OR EQUITY) AND THE RIGHT TO SUE,  
RECOVER FOR THE PAST, PRESENT AND FUTURE INFRINGEMENT OF THE RIGHTS**

  
ASSIGNED OR TO BE ASSIGNED HEREUNDER.

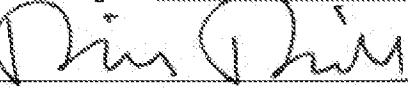
7. Assignor hereby consents that a copy of this Agreement shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document that may be required in any country for any purpose and more particularly in proof of the right of Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

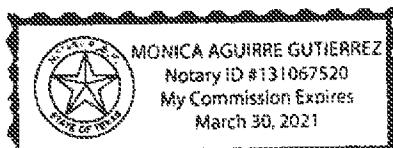
IN WITNESS WHEREOF, the Parties have executed this Assignment on the Effective Date written at

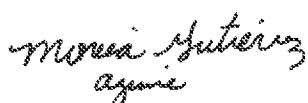
Assignor: Panasonic Corporation

By:   
Name: Hiroki Nishida  
Title: Authorized Signing Officer

Assignee: Sovereign Peak Ventures, LLC

By:   
Name: David Pridham  
Title: Chief Executive Officer







INDER.

of this Agreement shall be deemed a full legal and formal  
to file or like document that may be required in any country for any  
of the right of Assignee or nominee to claim the aforesaid benefit of  
International Convention for the Protection of Industrial Property, as  
may henceforth be substituted for it.

have executed this Assignment on the Effective Date written at

Assignor: Panasonic Corporation  
By:   
Name: Hitoki Nishida  
Title: Authorized Signing Officer

Assignee: Sovereign Peak Ventures, LLC  
By:   
Name: David Pridham  
Title: Chief Executive Officer

EXHIBIT A  
TO ASSIGNMENT AGREEMENT

Patent Number	Application Number
5884257	08/791400
6639986	09/334493
6778756	09/598751
6792470	09/796759
6765504	09/889555
7069214	10/095813
6687672	10/099428
6828971	10/119158
6920957	10/600826
6877038	10/633574
7536303	11/401263
7974431	11/662608
7991181	11/663558
7809560	11/814024
8243935	11/916799
8049764	12/017556
7854295	12/475768
8335336	12/663955
8552684	13/355796
8547058	13/355865
8729855	13/990901
8928278	14/011155
8963490	14/012191
9306411	14/125294
9325197	14/195589
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9954396	15/051408
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Confidential Patent Acquisition Agreement



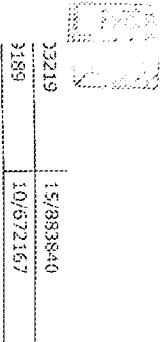
## EXHIBIT A

## TO ASSIGNMENT AGREEMENT

Patent Number	Application Number
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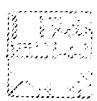
10003219	15/883840
6889189	10/672167



## EXHIBIT B

## TO ASSIGNMENT AGREEMENT

Country	Patent Number	Application Number
Japan	4242676	2003-066584
Germany (Federal Republic of)	0683481	95107008.5
European Patent	0683481	95107008.5
Spain	0683481	95107008.5
France	0683481	95107008.5
United Kingdom	0683481	95107008.5
Italy	0683481	95107008.5
Korea, Republic of (KR)	10-0215946	1995-0012057
China	ZL95107149.1	95107149.1
Germany (Federal Republic of)	1132839	00961057.7
European Patent	1132839	00961057.7
United Kingdom	1132839	00961057.7
Japan	4550341	2001-524017
China	ZL200510093928.X	200510093928.X
Korea, Republic of (KR)	10-0657109	10-2003-7007566
Korea, Republic of (KR)	10-0796882	10-2006-7012749
Korea, Republic of (KR)	10-0802729	10-2007-7010181
Germany (Federal Republic of)	2209244	10004874.3
European Patent	2209244	10004874.3
France	2209244	10004874.3
United Kingdom	2209244	10004874.3
Italy	2209244	10004874.3
Japan	4057809	2001-373449
Japan	4456616	2007-106589
China	ZL01822104.1	01822104.1
China	ZL200810166922.4	200810166922.4
China	ZL200810166924.3	200810166924.3
European Patent	1225776	02000219.2
Japan	4861825	2006-535137



## EXHIBIT B

## TO ASSIGNMENT AGREEMENT

Country	Patent Number	Application Number
Federal Republic of Germany	4242676	2003-055584
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Kingdom	06833481	95107008.5
Republic of (KR)	10-0215946	1995-0012057
F (Federal Republic of) Patent	1132839	00961057.7
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China	ZL200580030453.8	200580030453.8
Japan	3999812	2007-500432
Germany (Federal Republic of)	1901583	06767165.1
European Patent	1901583	06767165.1
France	1901583	06767165.1
United Kingdom	1901583	06767165.1
Japan	4887290	2007-523421
Germany (Federal Republic of)	2166780	08790189.8
European Patent	2166780	08790189.8
Japan	5021741	2009-523533
China	ZL200880001612.5	200880001612.5
Japan	4752849	2008-026188
Japan	5035080	2008-097940
Japan	5125713	2008-105448
Japan	5499443	2008-106511
China	ZL200980111434.6	200980111434.6
Japan	5024263	2008-280931
Germany (Federal Republic of)	2296228	10174332.6
European Patent	2296228	10174332.6
United Kingdom	2296228	10174332.6
Japan	4715954	2009-197844
Japan	5115585	2010-116868
Japan	5488671	2012-228606
China	ZL201020511628.5	201020511628.5
Germany (Federal Republic of)	2293383	10174346.6
European Patent	2293383	10174346.6
Finland	2293383	10174346.6
United Kingdom	2293383	10174346.6
Japan	4711010	2009-197843
Japan	4807463	2010-060618
Japan	4807464	2010-103295
China	ZL201020511619.6	201020511619.6
Korea, Republic of (KR)	10-1896631	10-2013-7007939
Japan	4835786	2010-267985
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Confidential Patent Acquisition Agreement

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PATENT  
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Japan	5445545	2011-206906
Japan	4831252	2010-282784
Japan	4883208	2010-168893
Japan	5152395	2011-256222
Korea, Republic of (KR)	10-1326716	10-2013-7016871
Germany (Federal Republic of)	2631922	11857869.9
European Patent	2631922	11857869.9
United Kingdom	2631922	11857869.9
Japan	4835797	2011-019482
Japan	5031911	2011-019481
Japan	5903568	2011-206911
China	ZL201190000973.5	201190000973.5
Korea, Republic of (KR)	10-1198880	10-2012-0007328
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Republic of (K.R.)	10-1326715	10-2013-7016671
(Federal Republic of)	2651922	118373869-9
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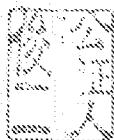
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**EXHIBIT C**

**TO ASSIGNMENT AGREEMENT**

Application Number
11/068751
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## EXHIBIT C

### TO ASSIGNMENT AGREEMENT

Application Number
11/068751
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**EXHIBIT D**

**TO ASSIGNMENT AGREEMENT**

Application Number
60/659052
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**EXHIBIT D**

**TO ASSIGNMENT AGREEMENT**

Application Number
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**PATENT**  
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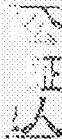
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EXHIBIT E

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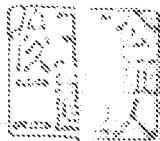
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Japan	2007-187188
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Patent Cooperation Treaty	PCT/JP2011/007346
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European Patent	11856873.2

Confidential Patent Acquisition Agreement

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Confidential Patent Acquisition Agreement



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Patent Acquisition Agreement



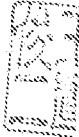
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Japan	H11-198406
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Japan	2000-281683

Confidential Patent Acquisition Agreement

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Confidential Patent Acquisition Agreement



	2001-280809
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公証人

登簿令和元年第 1287 号

嘱託人 パナソニック株式会社

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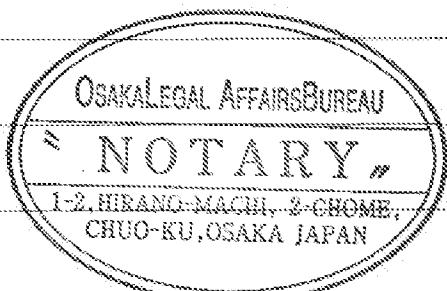
代理人 寺田 尚人 によって、当公証人の面前で  
この証書の 署名 を自認した。\_\_\_\_\_

よってこれを認証する。\_\_\_\_\_

令和元年 6 月 13 日当公証人役場において  
大阪市中央区平野町 2 丁目 1 番 2 号（沢の鶴ビル内）  
大阪法務局所属

公証人

玉置俊二



大阪法務局所属 公証人役場

PATENT  
REEL: 049622 FRAME: 0306



登録令和元年第 1287 号

嘱託人 パナソニック株式会社

知的財産センター 知財戦略部 戰略課 課長

西田 浩希 \_\_\_\_\_は、

代理人 寺田 尚人 によって、当公証人の面前で  
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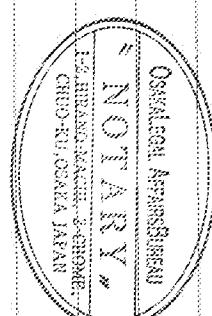
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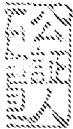
令和元年 6 月 13 日当公証人役場において  
大阪市中央区平野町 2 丁目 1 番 2 号 (沢の鶴ビル内)

：阪法務局所屬

証人

王 優 伸



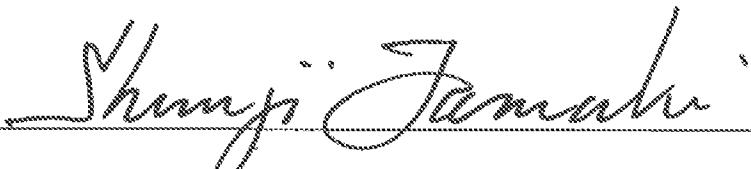


Registered No. 1287 - 2019

NOTARIAL CERTIFICATE

This is to certify that Mr. Naoto TERADA an agent of Mr. Hiroki NISHIDA, Authorized Signing Officer of PANASONIC CORPORATION has stated in my very presence that said Mr. Hiroki NISHIDA acknowledged himself to have signed to the attached document.

Dated this 13th day of June, 2019

  
SHUNJI TAMAKI



Notary  
Osaka Legal Affairs Bureau  
1-2, Hirano-Machi, 2-Chome,  
Chuo-ku, Osaka, Japan





Registered No. 1287 - 2019

NOTARIAL CERTIFICATE

This is to certify that Mr. Naoto TERADA an agent of  
Mr. Hiroki NISHIDA, Authorized Signing Officer of PANASONIC  
CORPORATION has stated in my very presence that said Mr. Hiroki  
NISHIDA acknowledged himself to have signed to the attached  
document.

Dated this 13th day of June, 2019

*Naoto Terada*  
SHUNJI TAMAKI

Notary

Osaka Legal Affairs Bureau  
1-2, Hirano-Machi, 2-Chome,  
Chuo-ku, Osaka, Japan



PATENT

REEL: 049622 FRAME: 0309

RECORDED: 06/27/2019