

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4731055

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
STEPHAN JOSEF ANDRIZZI	10/09/2017
KARA CAVALLARO	10/08/2017
JAI PRAKASH CHABRIA	10/09/2017
NICOLE DARE	10/09/2017
KENNETH DELAND	10/06/2017
NIRAV PRAFUL DESAI	10/09/2017
ANINDYA GUHA	10/07/2017
MARC HENSLEY	10/09/2017
DOUGLAS JAMES HERRINGTON	10/13/2017
SAMUEL STEVENS HEYWORTH	10/09/2017
APOORVA IYER	10/06/2017
NITISH KUMAR	10/07/2017
HANNAH MCCLELLAN RICHARDS	10/08/2017
JAE PARK	10/09/2017
AMIR PELLEG	10/11/2017
JESSICA PROTASIO	10/06/2017
DANIEL BENJAMIN RAUSCH	10/08/2017
LAURA ALLISON RIDLEHOOVER	10/09/2017
JEFFREY ROSENBERG	10/10/2017
JOHN SHAW	10/06/2017
PAUL WARREN SMART	10/07/2017
AMIRALI VIRANI	10/08/2017
RECEIVING PARTY DATA	
Name:	AMAZON TECHNOLOGIES, INC.
Street Address:	PO BOX 81226
City:	SEATTLE
State/Country:	WASHINGTON
Postal Code:	98108-1226
PROPERTY NUMBERS Total: 1	

Property Type	Number
Application Number:	15398642

CORRESPONDENCE DATA

Fax Number: (949)760-9502

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: 949-760-0404

Email: efiling@knobbe.com

Correspondent Name: KNOBBE MARTENS OLSON & BEAR, LLP

Address Line 1: 2040 MAIN STREET

Address Line 2: 14TH FLOOR

Address Line 4: IRVINE, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER:	SEAZN.1268A1
NAME OF SUBMITTER:	SCOTT FORBES
SIGNATURE:	/Scott Forbes/
DATE SIGNED:	12/12/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 26

source=SEAZN.1268A1 - AWL#page1.tif

source=SEAZN.1268A1 - AWL#page2.tif

source=SEAZN.1268A1 - AWL#page3.tif

source=SEAZN.1268A1 - AWL#page4.tif

source=SEAZN.1268A1 - AWL#page5.tif

source=SEAZN.1268A1 - AWL#page6.tif

source=SEAZN.1268A1 - AWL#page7.tif

source=SEAZN.1268A1 - AWL#page8.tif

source=SEAZN.1268A1 - AWL#page9.tif

source=SEAZN.1268A1 - AWL#page10.tif

source=SEAZN.1268A1 - AWL#page11.tif

source=SEAZN.1268A1 - AWL#page12.tif

source=SEAZN.1268A1 - AWL#page13.tif

source=SEAZN.1268A1 - AWL#page14.tif

source=SEAZN.1268A1 - AWL#page15.tif

source=SEAZN.1268A1 - AWL#page16.tif

source=SEAZN.1268A1 - AWL#page17.tif

source=SEAZN.1268A1 - AWL#page18.tif

source=SEAZN.1268A1 - AWL#page19.tif

source=SEAZN.1268A1 - AWL#page20.tif

source=SEAZN.1268A1 - AWL#page21.tif

source=SEAZN.1268A1 - AWL#page22.tif

source=SEAZN.1268A1 - AWL#page23.tif

source=SEAZN.1268A1 - AWL#page24.tif

source=SEAZN.1268A1 - AWL#page25.tif

source=SEAZN.1268A1 - AWL#page26.tif

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

PARTIES TO THE ASSIGNMENT

Assignor(s):

Stephan Josef Andrizzi
410 Terry Avenue North
Seattle, WA 98109-5210

Apoorva Iyer
410 Terry Avenue North
Seattle, WA 98109-5210

Kara Cavallaro
410 Terry Avenue North
Seattle, WA 98109-5210

Nitish Kumar
410 Terry Avenue North
Seattle, WA 98109-5210

Jai Prakash Chabria
410 Terry Avenue North
Seattle, WA 98109-5210

Hannah McClellan Richards
410 Terry Avenue North
Seattle, WA 98109-5210

Nicole Dare
410 Terry Avenue North
Seattle, WA 98109-5210

Jae Park
410 Terry Avenue North
Seattle, WA 98109-5210

Kenneth DeLand
410 Terry Avenue North
Seattle, WA 98109-5210

Amir Pelleg
410 Terry Avenue North
Seattle, WA 98109-5210

Nirav Praful Desai
410 Terry Avenue North
Seattle, WA 98109-5210

Jessica Protasio
410 Terry Avenue North
Seattle, WA 98109-5210

Anindya Guha
410 Terry Avenue North
Seattle, WA 98109-5210

Daniel Benjamin Rausch
410 Terry Avenue North
Seattle, WA 98109-5210

Marc Hensley
410 Terry Avenue North
Seattle, WA 98109-5210

Laura Allison Ridlehoover
410 Terry Avenue North
Seattle, WA 98109-5210

Douglas James Herrington
410 Terry Avenue North
Seattle, WA 98109-5210

Jeffrey Rosenberg
410 Terry Avenue North
Seattle, WA 98109-5210

Samuel Stevens Heyworth
410 Terry Avenue North
Seattle, WA 98109-5210

John Shaw
410 Terry Avenue North
Seattle, WA 98109-5210

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

Paul Warren Smart
410 Terry Avenue North
Seattle, WA 98109-5210

Amirali Virani
410 Terry Avenue North
Seattle, WA 98109-5210

Assignee:
Amazon Technologies, Inc.
PO Box 81226
Seattle, WA 98108-1226

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled
“AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS” (Invention) for which a non-
provisional application for United States Letters Patent (Application):

- ☒ was filed on January 4, 2017 and accorded U.S. Application No. 15/398,642; or
☐ will be filed concurrently with the submission of this executed PATENT ASSIGNMENT
for recordation.

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE’S legal representatives, of
Knobbe, Martens, Olson & Bear, LLP, associated with Customer No. 79,502, to insert in the
header above and here in parentheses (U.S. Patent Application No. 15/398,642, filed January 4,
2017) this application’s U.S. application number and filing date, when known.

WHEREAS, ASSIGNEE, a corporation of the State of Nevada, is desirous of acquiring the
entire right, title and interest in and to the Invention and in and to any letters patent that may
be granted therefor in the United States and in any and all foreign countries.

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said Invention and any improvements thereto, said Application and any and all letters patent which may be granted for said Invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all provisional, divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said Application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said Invention, Application and all letters patent on said Invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks, as well as all other applicable patent offices throughout the world, to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said Invention, for litigation regarding said letters patent, or for the purpose of protecting title to said Invention or letters patent therefor.

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said letters patent before or after issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Invention or said Application, and testify in any legal proceeding, assist in the preparation of any other patent property relating to the Application and the Invention or any improvements made thereto, sign/execute all lawful papers, provide all requested documents, execute and make all rightful oaths and/or declarations in connection with the Application and the Invention including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Invention in all countries. These provisions are binding upon ASSIGNOR's heirs, legal representatives, administrators, and assigns.

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

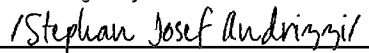
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

0D9AE17683AC4D1...

Stephan Josef Andrizzi

October 9, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:


- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

3F91B8F0A0454FD...
Kara Cavallaro

October 8, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

D6908FE50256401...

Jai Prakash Chabria

October 9, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Ridlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:


- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

5A49FEB06920466...
Nicole Dare

October 9, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

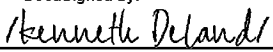
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

2A3DFE563A58452...

Kenneth DeLand

October 6, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Ridlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

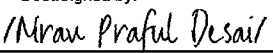
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

2620952FE3294D2...

Nirav Praful Desai

October 9, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

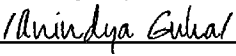
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

AB52F82DBF72418...
Anindya Guha

October 7, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

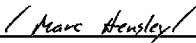
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

93DAA6F751A24B3..
Marc Hensley

October 9, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

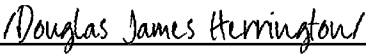
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

DFDDFC81799347F...

Douglas James Herrington

October 13, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Ridlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

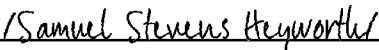
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

EEC5DF64C24A4D0...
Samuel Stevens Heyworth

October 9, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

Apoorva Iyer

01B34D9F30424F9...

Apoorva Iyer

October 6, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

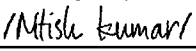
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

68C23D390CDA478...

Nitish Kumar

October 7, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

DD3D674BC9DF439...

Hannah McClellan Richards

October 8, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

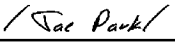
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

A6CA154A14B1449...

Jae Park

October 9, 2017
Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

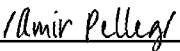
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

8BC19E8C790040F...

Amir Pelleg

October 11, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Ridlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:
Jessica Protasio
B341DCAB39514F6...

Jessica Protasio

October 6, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

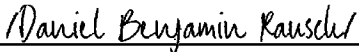
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

F19BB9B129EE435...

Daniel Benjamin Rausch

October 8, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Ridlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

70D6BCE33CAD44D...
Laura Allison Ridlehoover

October 9, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Ridlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

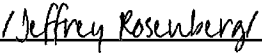
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

20E09D26B3B847B...
Jeffrey Rosenberg

October 10, 2017
Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

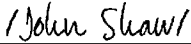
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

6BBE5C70704A4E1...

John Shaw

October 6, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

/ Paul Warren Smart /

16F7B5ABB5314E6...

Paul Warren Smart

October 7, 2017

Date

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/398,642

Attorney Docket No. SEAZN.1268A1

Filing Date January 4, 2017

Client Docket No. P35566-US

Title of Invention: AUTOMATIC CREATION OF CUSTOM USER INTERFACE CONTROLS

Inventors: **Stephan Josef Andrizzi, Kara Cavallaro, Jai Prakash Chabria, Nicole Dare, Kenneth DeLand, Nirav Praful Desai, Anindya Guha, Marc Hensley, Douglas James Herrington, Samuel Stevens Heyworth, Apoorva Iyer, Nitish Kumar, Hannah McClellan Richards, Jae Park, Amir Pelleg, Jessica Protasio, Daniel Benjamin Rausch, Laura Allison Riddlehoover, Jeffrey Rosenberg, John Shaw, Paul Warren Smart, Amirali Virani**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

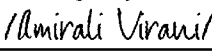
- ☐ the attached application; or
- ☒ United States Patent Application number 15/398,642 filed on January 4, 2017; or
- ☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

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

DocuSigned by:

861A489D50D549B...

Amirali Virani

October 8, 2017

Date