

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7531561

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ANDREW L. HARDING	07/25/2022
JAMES A. QUEEN	07/25/2022
JOSEPH-ALEXANDER P. WEIL	07/25/2022
JOANNA M. NEWMAN	07/25/2022
RON A. BUENCAMINO	07/22/2022
RICHARD H. SALVADOR	07/22/2022
FERNANDO GARCIA	07/27/2022
AUSTIN T. TAMADDON	07/25/2022
OMID KHALILI	07/26/2022
SCOTT W. WILSON	07/26/2022
THOMAS H. SMITH III	07/12/2022
RECEIVING PARTY DATA	
Name:	APPLE INC.
Street Address:	ONE APPLE PARK WAY
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	95014
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17720227
CORRESPONDENCE DATA	
Fax Number:	(650)843-4001
<i>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.</i>	
Phone:	650-843-4000
Email:	beverly.gemello@morganlewis.com
Correspondent Name:	GARY S. WILLIAMS
Address Line 1:	MORGAN, LEWIS & BOCKIUS LLP
Address Line 2:	1400 PAGE MILL ROAD
Address Line 4:	PALO ALTO, CALIFORNIA 94304

ATTORNEY DOCKET NUMBER:	063266-7786-US
NAME OF SUBMITTER:	GARY S. WILLIAMS
SIGNATURE:	/Gary S. Williams/
DATE SIGNED:	09/11/2022

Total Attachments: 11

source=P53640US1 Assignment (7786-US)#page1.tif
source=P53640US1 Assignment (7786-US)#page2.tif
source=P53640US1 Assignment (7786-US)#page3.tif
source=P53640US1 Assignment (7786-US)#page4.tif
source=P53640US1 Assignment (7786-US)#page5.tif
source=P53640US1 Assignment (7786-US)#page6.tif
source=P53640US1 Assignment (7786-US)#page7.tif
source=P53640US1 Assignment (7786-US)#page8.tif
source=P53640US1 Assignment (7786-US)#page9.tif
source=P53640US1 Assignment (7786-US)#page10.tif
source=P53640US1 Assignment (7786-US)#page11.tif

ASSIGNMENT

WHEREAS, WE, **ANDREW L. HARDING**, citizen of the United States of America, residing in Portola Valley, CA; **JAMES A. QUEEN**, citizen of the United States of America, residing in Santa Cruz, CA; **JOSEPH-ALEXANDER P. WEIL**, citizen of the United States of America, residing in San Anselmo, CA; **JOANNA M. NEWMAN**, citizen of the United States of America, residing in Sunnyvale, CA; **RON A. BUENCAMINO**, citizen of the United States of America, residing in San Jose, CA; **RICHARD H. SALVADOR**, citizen of the United States of America, residing in Culver City, CA; **FERNANDO GARCIA**, citizen of the United States of America, residing in Redondo Beach, CA; **AUSTIN T. TAMADDON**, citizen of the United States of America, residing in Menlo Park, CA; **OMID KHALILI**, citizen of the United States of America, residing in Santa Clara, CA; **SCOTT W. WILSON**, citizen of New Zealand, residing in San Jose, CA; and **THOMAS H. SMITH III**, citizen of the United States of America, residing in Los Angeles, CA, ASSIGNORS, are the inventors of the invention in **SYSTEMS, METHODS, AND GRAPHICAL USER INTERFACES FOR ADDING EFFECTS IN AUGMENTED REALITY ENVIRONMENTS**, described in an application for a Patent of the United States

- which is executed on even date herewith
- which is identified by Morgan, Lewis & Bockius LLP docket no. P53640US1/063266-7786-US
- which was filed on April 13, 2022, Application No. 17/720,227
- which claims priority on U.S. Provisional Patent Application No(s). 63/176,322
- We hereby authorize and request our attorney, Gary S. Williams, of Morgan, Lewis & Bockius LLP, to insert here in parenthesis (Application number _____, filed _____) the filing date and application number of said application when known.

and WHEREAS, **APPLE INC.**, ASSIGNEE, having a place of business at One Apple Park Way, Cupertino, California 95014, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, let it be known that for and in consideration of the sum of One Dollar (\$1.00) to me paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and any substitute applications therefore, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; the said United States provisional patent application(s), if any, on which the said United States application claims priority; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application and said United States provisional patent application(s), if any, under the Patent 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; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 25-Jul-2022



Andrew L. Harding / L.S.

Andrew L. Harding

Date 25-Jul-2022

James A. Queen
James A. Queen (Jul 25, 2022 18:47 EDT) / _____ L.S.
James A. Queen

Date _____

/ _____ / _____ L.S.
Joseph-Alexander P. Weil

Date _____

/ _____ / _____ L.S.
Joanna M. Newman

Date _____

/ _____ / _____ L.S.
Ron A. Buencamino

Date _____

/ _____ / _____ L.S.
Richard H. Salvador

Date _____

/ _____ / _____ L.S.
Fernando Garcia

Date _____

/ _____ / _____ L.S.
Austin T. Tamaddon

Date _____

/ _____ / _____ L.S.
Omid Khalili

Date _____

/ _____ / _____ L.S.
Scott W. Wilson

Date _____

/ _____ / _____ L.S.
Thomas H. Smith III

Date _____ / _____ / _____ L.S.
James A. Queen

Date **25-Jul-2022** / _____ / _____ L.S.

Joseph-Alexander P. Weil (Jul 25, 2022 17:35:10 PT)
Joseph-Alexander P. Weil

Date _____ / _____ / _____ L.S.
Joanna M. Newman

Date _____ / _____ / _____ L.S.
Ron A. Buencamino

Date _____ / _____ / _____ L.S.
Richard H. Salvador

Date _____ / _____ / _____ L.S.
Fernando Garcia

Date _____ / _____ / _____ L.S.
Austin T. Tamaddon

Date _____ / _____ / _____ L.S.
Omid Khalili

Date _____ / _____ / _____ L.S.
Scott W. Wilson

Date _____ / _____ / _____ L.S.
Thomas H. Smith III

Date _____ / _____ / _____ L.S.
James A. Queen

Date _____ / _____ / _____ L.S.
Joseph-Alexander P. Weil

Date **25-Jul-2022** _____ / _____ / _____ L.S.
Joanna Newman
Joanna Newman (Jul 25, 2022 08:02 PST)
Joanna M. Newman

Date _____ / _____ / _____ L.S.
Ron A. Buencamino

Date _____ / _____ / _____ L.S.
Richard H. Salvador

Date _____ / _____ / _____ L.S.
Fernando Garcia

Date _____ / _____ / _____ L.S.
Austin T. Tamaddon

Date _____ / _____ / _____ L.S.
Omid Khalili

Date _____ / _____ / _____ L.S.
Scott W. Wilson

Date _____ / _____ / _____ L.S.
Thomas H. Smith III

Date _____ / _____ / _____ L.S.
James A. Queen

Date _____ / _____ / _____ L.S.
Joseph-Alexander P. Weil

Date _____ / _____ / _____ L.S.
Joanna M. Newman

Date **22-Jul-2022** /  / _____ L.S.
Ron Buencamino [Jul 22, 2022 17:37 PST]
Ron A. Buencamino

Date _____ / _____ / _____ L.S.
Richard H. Salvador

Date _____ / _____ / _____ L.S.
Fernando Garcia

Date _____ / _____ / _____ L.S.
Austin T. Tamaddon

Date _____ / _____ / _____ L.S.
Omid Khalili

Date _____ / _____ / _____ L.S.
Scott W. Wilson

Date _____ / _____ / _____ L.S.
Thomas H. Smith III

Date _____ / _____ / _____ L.S.
James A. Queen

Date _____ / _____ / _____ L.S.
Joseph-Alexander P. Weil

Date _____ / _____ / _____ L.S.
Joanna M. Newman

Date _____ / _____ / _____ L.S.
Ron A. Buencamino

Date **22-Jul-2022** / *Richard Salvador* / _____ L.S.
(Richard Salvador (Jul 22, 2022 22:03:17))
Richard H. Salvador

Date _____ / _____ / _____ L.S.
Fernando Garcia

Date _____ / _____ / _____ L.S.
Austin T. Tamaddon

Date _____ / _____ / _____ L.S.
Omid Khalili

Date _____ / _____ / _____ L.S.
Scott W. Wilson

Date _____ / _____ / _____ L.S.
Thomas H. Smith III

Date _____ / _____ / _____ L.S.
James A. Queen

Date _____ / _____ / _____ L.S.
Joseph-Alexander P. Weil

Date _____ / _____ / _____ L.S.
Joanna M. Newman

Date _____ / _____ / _____ L.S.
Ron A. Buencamino

Date _____ / _____ / _____ L.S.
Richard H. Salvador

Date 27-Jul-2022 / _____ / _____ L.S.
Fernando Garcia
Fernando Garcia (Jul 27, 2022 09:02 PDT)
Fernando Garcia

Date _____ / _____ / _____ L.S.
Austin T. Tamaddon

Date _____ / _____ / _____ L.S.
Omid Khalili

Date _____ / _____ / _____ L.S.
Scott W. Wilson

Date _____ / _____ / _____ L.S.
Thomas H. Smith III

Date _____ / _____ / _____ L.S.
James A. Queen

Date _____ / _____ / _____ L.S.
Joseph-Alexander P. Weil

Date _____ / _____ / _____ L.S.
Joanna M. Newman

Date _____ / _____ / _____ L.S.
Ron A. Buencamino

Date _____ / _____ / _____ L.S.
Richard H. Salvador

Date _____ / _____ / _____ L.S.
Fernando Garcia

Date **25-Jul-2022** _____ / _____ / _____ L.S.
Austin Tamaddon
/Austin Tamaddon (Jul 25, 2022 09:25 PDT)
Austin T. Tamaddon

Date _____ / _____ / _____ L.S.
Omid Khalili

Date _____ / _____ / _____ L.S.
Scott W. Wilson

Date _____ / _____ / _____ L.S.
Thomas H. Smith III

Date _____ / _____ / _____ L.S.
James A. Queen

Date _____ / _____ / _____ L.S.
Joseph-Alexander P. Weil

Date _____ / _____ / _____ L.S.
Joanna M. Newman

Date _____ / _____ / _____ L.S.
Ron A. Buencamino

Date _____ / _____ / _____ L.S.
Richard H. Salvador

Date _____ / _____ / _____ L.S.
Fernando Garcia

Date _____ / _____ / _____ L.S.
Austin T. Tamaddon

Date 26-Jul-2022 / *Omid Khalili* / _____ L.S.
/Omid Khalili (Jul 26, 2022 10:33 PM)
Omid Khalili

Date _____ / _____ / _____ L.S.
Scott W. Wilson

Date _____ / _____ / _____ L.S.
Thomas H. Smith III

Date _____ / _____ / _____ L.S.
James A. Queen

Date _____ / _____ / _____ L.S.
Joseph-Alexander P. Weil

Date _____ / _____ / _____ L.S.
Joanna M. Newman

Date _____ / _____ / _____ L.S.
Ron A. Buencamino

Date _____ / _____ / _____ L.S.
Richard H. Salvador

Date _____ / _____ / _____ L.S.
Fernando Garcia

Date _____ / _____ / _____ L.S.
Austin T. Tamaddon

Date _____ / _____ / _____ L.S.
Omid Khalili

Date **26-Jul-2022** /  / _____ L.S.
Scott W. Wilson

Date _____ / _____ / _____ L.S.
Thomas H. Smith III

Date _____ / _____ / _____ L.S.
James A. Queen

Date _____ / _____ / _____ L.S.
Joseph-Alexander P. Weil

Date _____ / _____ / _____ L.S.
Joanna M. Newman

Date _____ / _____ / _____ L.S.
Ron A. Buencamino

Date _____ / _____ / _____ L.S.
Richard H. Salvador

Date _____ / _____ / _____ L.S.
Fernando Garcia

Date _____ / _____ / _____ L.S.
Austin T. Tamaddon

Date _____ / _____ / _____ L.S.
Omid Khalili

Date _____ / _____ / _____ L.S.
Scott W. Wilson

Date 12-Jul-2022 _____ / _____ / _____ L.S.

/s/ Thomas H. Smith III (Jul 12, 2022 17:27 PDT)
Thomas H. Smith III