10/19/2023 508181786

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT8228970

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CLARISSE MAZUIR	11/28/2016
ARTHUR Y. ZHANG	11/28/2016
MATTHEW E. LAST	06/25/2017
BUDHADIPTA DAN	11/30/2016
CHRISTY F. CULL	01/20/2017
RYAN J. GARRONE	11/29/2016

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:	17173840

CORRESPONDENCE DATA

Fax Number: (248)649-3338

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: (248) 649-3333

Email: docketing@youngbasile.com

YOUNG BASILE HANLON & MACFARLANE, P.C. **Correspondent Name:**

3001 WEST BIG BEAVER RD. Address Line 1:

Address Line 2: **SUITE 624**

Address Line 4: TROY, MICHIGAN 48084

ATTORNEY DOCKET NUMBER:	J1193E
NAME OF SUBMITTER:	STACIE FARINA
SIGNATURE:	/Stacie Farina/
DATE SIGNED:	10/19/2023

PATENT REEL: 065275 FRAME: 0115 508181786

Total Attachments: 7 source=ExecutedAssignment#page1.tif source=ExecutedAssignment#page2.tif source=ExecutedAssignment#page3.tif source=ExecutedAssignment#page4.tif source=ExecutedAssignment#page5.tif source=ExecutedAssignment#page6.tif source=ExecutedAssignment#page7.tif

PATENT REEL: 065275 FRAME: 0116

ASSIGNMENT

WHEREAS, Assignor desires to assign any and all right, title and interest to said Utility Application, and any provisional, non-provisional, continuation, continuation-in-part, divisional, international, foreign, regional and convention applications corresponding thereto, and any and all Letters Patent of the United States and countries and regions foreign thereto which may grant or have granted thereto or be lodged in relation thereto, any reissue or reexamination thereof or to be obtained therefor, any renewals, or substitutes thereof, and in and to any and all priority rights or priority claims, International Convention rights, any and all rights to collect past damages for infringement of any and all Letters Patent of the United States and countries and regions foreign thereto which may be published, which may grant, or have granted thereto or be lodged in relation thereto, and other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or securing of patents in the United States and countries foreign-thereto (the "Patent Rights");

WHEREAS, Apple Inc., a corporation organized and existing under the laws of the State of California, and having its principal place of business at One Infinite Loop, Cupertino, California 95014 (the "Assignee"), desires to acquire any and all, right, title, and interest of Assignor in and to the invention(s), the Patent Rights, and in, to, and under any and all Letters Patent to be obtained therefor;

NOW THEREFORE, for the sum of \$1.00 and other good and valuable consideration to Assignor in hand paid, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transfer and by these presents does hereby sell, assign and transfer to the said Assignee, and said Assignee's legal representatives, successors and assigns, any and all of the entire right, title and interest in and to the invention(s), Patent Rights, and any and all Letters Patent to be obtained therefor;

UPON SAID CONSIDERATION, the Assignor hereby covenants and agrees with the said Assignee that it will not execute any writing or do any act whatsoever conflicting with these presents, and that it will, at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, provisionals, non-provisionals, continuations, continuations, renewals, reissues, reexamined or extended Letters Patent of the United States, or of any and all foreign countries, on said Patent

Rights, and execute confirmatory assignments of acknowledgments of this assignment as necessary for full enjoyment of the Patent Rights and for recording in foreign patent offices, and in enforcing any rights or choses in action accruing as a result of such Patent Rights, by giving testimony in any proceedings or bransactions involving such Patent Rights, and by executing profiningly statements and other affidavits. It being understood that the foregoing covenant and agreement shall land, and must to the benefit of the assigns and legal representatives of both paties;

UPON SAID CONSIDERATION. Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party.

ASS/GNOR HEREBY AUTHORIZES said Assignes, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and as foreign countries and regions, in its own name if desired, and additionally to claim priority to the filing date of the Utility Application and otherwise take advantage of the provisions of any international conventions.

ASSIGNOR HEREBY AUTHORIZES Assignee, its excessors and assigns, or anyone it may properly designate, to insert in this instrument the application number, filing date, and title of the Utility Application once known.

N WINESS WESSECF, : The date indicated below.	he Assignor haracato has executed this Assignment upon
Onto:	By <u>Alle Lines Wazur</u>
DE PETREME VOIENECE, I De date indicated below.	ha Assignas haraunto haa executad Sas Assignment sport
Date:	Br
	Afour Y. Zhang
Date:	6y Matthew E. Last
IN WITNESS WHEREOF, b the daile indicated below	# Assignor herecado has executed this Assignment upon
Date	By Budhadipla Dan
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Rights, and execute confirmatory assignments or acknowledgments of this assignment as necessary for full enjoyment of the Patent Rights and for recording in foreign patent offices, and in enforcing any rights or choses in action accruing as a result of such Patent Rights, by giving testimony in any proceedings or transactions involving such Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party;

ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries and regions, in its own name if desired, and additionally to claim priority to the filing date of the Utility Application and otherwise take advantage of the provisions of any international conventions.

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IN WITNESS WHEREOF the Assignor hereunto has executed this Assignment upon

the date indicated below.	•
Date:	By:Clarisse Mazuir
the data indicated balance	hereunto has executed this Assignment upon By: Arthur Y. Zhang
IN WITNESS WHEREOF, the Assignor the date indicated below.	hereunto has executed this Assignment upon
Date:	By:
the date indicated below.	hereunto has executed this Assignment upon
Date:	By:Budhadipta Dan

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the da	IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.	
Date:	By:Clarisse Mazuir	
the da	IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon ate indicated below.	
Date:	By:Arthur Y. Zhang	
the da	IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon ate indicated below. 25 June 2017 By: Matthew E. Last	
the da	IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon ate indicated below.	
Date:	By:Budhadipta Dan	

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IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon

the date indicated below.	
Date:	By: Clarisse Mazuir
	Clarisse Mazuir
IN WITNESS WHEREOF, the date indicated below.	ne Assignor hereunto has executed this Assignment upon
Date:	By; Arthur Y. Zhang
IN WITNESS WHEREOF, the date indicated below.	ne Assignor hereunto has executed this Assignment upon
Date:	By: Matthew E. Last
IN WITNESS WHEREOF, the date indicated below.	ne Assignor hereunto has executed this Assignment upon
Date: 11/3 0 /16	By: 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6

IN WITNESS WHEREOF, the Assignor	uetentito tias executed tilis vasifilitietit abou
the date indicated below:	
Date: //2° //1	By: Mary March
	Christy F. Cull/
IN WITNESS WHEREOF, the Assignor the date indicated below.	hereunto has executed this Assignment upon
Date:	By: Ryan J. Garrone

IN WITNESS WHEREOF, the Assignor the date indicated below.	uetenuto uss executed tuis vasidument abou
Date:	By: Christy F. Cull
IN WITNESS WHEREOF, the Assignor the date indicated below. Date:	hereunto has executed this Assignment upon By: 1/2 Parrone

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RECORDED: 10/19/2023