507383793 07/13/2022

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YI-KUEI WU	06/07/2022
LUCIA GAN	04/13/2022

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:	17725418			

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Email: vbrown@bhfs.com

Correspondent Name: S. CRAIG HEMENWAY

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Address Line 4: DENVER, COLORADO 80202

ATTORNEY DOCKET NUMBER:	P51218US1
NAME OF SUBMITTER:	VALERIE H. BROWN
SIGNATURE:	/Valerie H. Brown/
DATE SIGNED:	07/13/2022

Total Attachments: 2

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PATENT 507383793 REEL: 060500 FRAME: 0243

ASSIGNMENT BY INVENTORS

WHEREAS, we, Yi-Kuei Wu, Lucia	Gan (hereinafter	referred to as "	Assignors") have	invented certain
new and useful improvements in "Multi-N	Mode Devices for	Multiplexing	and De-Multiple	exing", shown and
described in U.S. Patent Application No	17/725,418	filed _	April 20, 2022	(the
"Application") and;				

WHEREAS, Apple Inc., a California corporation, having its principal place of business at One Apple Park Way, Cupertino, CA 95014, U.S.A (hereinafter referred to as Assignee), is desirous of acquiring Assignors entire right, title and interest in and to said inventions, Application and any patents which may issue thereon;

NOW, THEREFORE, be it known by all whom it may concern that for good and valuable consideration, the receipt of which is hereby acknowledged, Assignors agree to assign and hereby assign to Assignee for the territory of the United States of America and the entire world Assignors entire right, title and interest in and to said inventions and Application, and in and to any and all patent applications in the United States and all countries foreign to the United States which may claim priority to said Application or which may be directed to said inventions, said patent applications including without limitation any and all provisionals, non-provisionals, divisionals, continuations, continuations-in-part, utility models, industrial models, and designs, and in and to any and all patents in the United States and all countries foreign to the United States which may be granted therefore and thereon, and in and to any reissues, reexaminations, and extensions of said patents. Assignors hereby transfer and convey to Assignee any right to recover for past and future infringement of the patents assigned herein.

Assignors HEREBY grant the attorneys at Brownstein Hyatt Farber Schreck, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

/ Kuci VIL Yi-Kuci Wu Jun 7, 2022 Lucia Gan

> P51218US1 **PATENT**

> > REEL: 060500 FRAME: 0244

ASSIGNMENT BY INVENTORS

WHEREAS, we, Yi-Kuei Wu, Lucia C	Gan (hereinafter r	eferred to as ".	Assignors") have in	nvented certain
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described in U.S. Patent Application No	17/725,418	filed_	April 20, 2022	(the
"Application") and;				
WHEREAS, Apple Inc., a California co Way, Cupertino, CA 95014, U.S.A (hereina entire right, title and interest in and to said in NOW, THEREFORE, be it known by a the receipt of which is hereby acknowledge territory of the United States of America an said inventions and Application, and in and countries foreign to the United States which to said inventions, said patent applications in non-provisionals, divisionals, continuations designs, and in and to any and all patents in which may be granted therefore and thereor said patents. Assignors hereby transfer and infringement of the patents assigned herein.	after referred to as inventions, Applications, Applications, Applications, Assignors agreed the entire world to any and all parameters are continuations in the United States in, and in and to are convey to Assign	s Assignee), is cation and any oncern that for e to assign and l Assignors entent application ity to said Application any e-part, utility me and all country reissues, reconstruction any reissues, reconstruction and all country reissues, reconstruction and and all country reissues, reconstruction and any reissues.	desirous of acquirication patents which may good and valuable distriction and it is in the United State of	ng Assignors vissue thereon; consideration, Assignee for the interest in and to ates and all may be directed ls, codels, and United States extensions of
Assignors HEREBY grant the attorneys on this Assignment any further identification rules of the United States Patent and Trader	on which may be i	necessary or de	esirable in order to	•
Apr 13, 2022		/ Lucia C	 Gan	/

Page 1 of 1 P51218US1