505138167 10/11/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT5184931

CONVEYING PARTY DATA

Name	Execution Date
NICHOLAS J. CIRCOSTA	09/27/2018
ROBERT D. BUTLER	09/20/2018
DANIEL B. POLLACK	09/20/2018
NELSON M. LEDUC	09/20/2018
RYAN W. BAKER	09/21/2018

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:	16147487

CORRESPONDENCE DATA

Fax Number: (714)830-0700

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.

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OCIPDocketing@morganlewis.com MORGAN, LEWIS & BOCKIUS LLP

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Address Line 2: SUITE 1800

Address Line 4: COSTA MESA, CALIFORNIA 92626-7653

ATTORNEY DOCKET NUMBER: 122202-6193 (P39541US1)

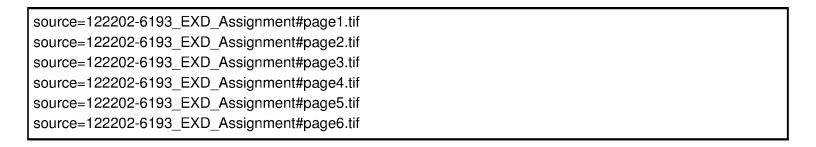
NAME OF SUBMITTER: MARK J. ITRI, REG. NO. 36,171

SIGNATURE: /Mark J. Itri/

DATE SIGNED: 10/11/2018

Total Attachments: 6

PATENT REEL: 047139 FRAME: 0780



PATENT REEL: 047139 FRAME: 0781

ASSIGNMENT

WHEREAS we, Nicholas J. CIRCOSTA, Robert D. BUTLER, Daniel B. POLLACK, Nelson M. LEDUC, and Ryan W. BAKER; have made a certain new and useful invention as set forth in an application for United States Patent, entitled NOTIFICATION OF SERVICE AVAILABILITY ON A DEVICE which was filed on September 28, 2018 and identified by United States Patent Application No. 16/147,487; and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and application number of said application when known;

AND WHEREAS, APPLE INC., a corporation of California and having an address of One Apple Park Way, Cupertino, California 95014, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, we do hereby sell, assign, transfer and set over unto Apple Inc., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including the right of priority and including any non-provisionals, continuations, continuations-in-part, divisions, reissues, reexaminations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, we hereby agree with said assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will, at any time upon request, without further or additional consideration but at the expense of 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, non-provisional, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, 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 assignor and assignee;

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PATENT REEL: 047139 FRAME: 0782

Docket No. 122202-6193 (P39541US1)

AND we request the Commissioner for Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Apple Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

9/27/18		
Date	Nicholas J. CIRCOSTA	
Date	Robert D. BUTLER	
Date	Daniel B. POLLACK	
Date	Nelson M. LEDUC	
- Notes	Dran W BAKED	

Docket No. 122202-6193 (P39541US1)

AND we request the Commissioner for Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Apple Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date	Nicholas J. CIRCOSTA
	Robert D. BUTLER
Date	Daniel B. POLLACK
Date	Nelson M. LEDUC
Date	Ryan W BAKER

Dacket No. 122202-6193 (P395411-S1)

ACT we request the Commissioner for Parents and Trademarks to issue any Cetters
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representatives accessors or assume as the sale order of the other right, threshold indices in
and to said parent and the invention covered thereby

	Substitution (CRECETA	
Deste	Robert D. BUTLER	
Fig. 25 / 18.	Daniel B. POLLACK	
Core	Nesse M. LEDUC	
Due	Rome Baker	

Docket No. 122202-6193 (P39541USI)

AND we request the Commissioner for Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Apple Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date	Nicholas J. CIRCOSTA	
Date	Robert D. BUTLER	
N.	Daniel B. POLLACK	
Date	Dancis Pollaca	
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9/20/2018	Mala Va	
Date	Nelson M, LEDUC	
Date	Ryan W BAKER	

Docker No. 122202-6193 (P39541USI)

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Date	Nicholas J. CIRCOSTA
Date	Robert D. BUTLER
Date	Daniel B. POLLACK
Date	Nelson M. LEDUC
1/2/12/18	プラー モルー
Date	Rvan W. BAKER

PATENT REEL: 047139 FRAME: 0787

RECORDED: 10/11/2018