505142391 10/15/2018 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5189157

SUBMISSION TYPE:		NEW ASSIGNMENT	_	
ATURE OF CONVEYA	NCE:	ASSIGNMENT		
CONVEYING PARTY D	ΔΑΤΑ			
		Name Execution [)ate	
JAMES F. LOCKWOOD		08/30/2018		
VAN HONG		09/19/2018		
XIAONAN MA		09/10/2018		
SUGAM JAIN		09/19/2018		
PAVEL V. DUDRENOV	,	09/17/2018		
ORI HERRNSTADT		10/02/2018		
RECEIVING PARTY D	ΑΤΑ			
Name:	APPLE	APPLE INC.		
Street Address:		ONE APPLE PARK WAY		
City:	CUPERTINO			
State/Country:	CALIFC	CALIFORNIA		
		95014		
	S Total: 1	Number		
PROPERTY NUMBER Property Type	S Total: 1	Number 16146588		
Application Number: CORRESPONDENCE	S Total: 1			
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will I using a fax number, if</i> Phone:	S Total: 1 DATA be sent to provided	16146588 (844)670-6009 • the e-mail address first; if that is unsuccessful, it will be ser I; if that is unsuccessful, it will be sent via US Mail. (408) 701-6200	t	
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Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

SHARE POOLS FOR SHARING FILES VIA A STORAGE SERVICE

(Atty. Docket No. P38060US1/28340US.1) for which I have executed an application on even date herewith. \mathbf{X} which bears application No. 16/146.588 which is a U.S. provisional application.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:

1) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at One Apple Park Way, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).

2Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.

Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, 3) perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.

4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.

5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

Date: 08/30/2018

Typed Name: James F. LOCKWOOD

Signature:

(Attv. Docket No. P38060US1/28340US.1)

v1.1

PATENT REEL: 047170 FRAME: 0066

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

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6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

_____ Date: <u>9/19/2018</u> Signature: Typed Name: Van HONG

¥1.1

PATENT REEL: 047170 FRAME: 0067

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.....

Signed on the date indicated beside my signature.

Signature: CSC Typed Name: Xiaonan MA

> PATENT **.1 REEL: 047170 FRAME: 0068

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Signed on the date indicated beside my signature.

Signature: Sugam JAIN

_____ Date: _____

PATENT REEL: 047170 FRAME: 0069

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(Atty. Docket No. P38060US1/28340US.1)
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6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

Signature:

Typed Name: Pacel V. DUDRENOV

Date: 09/14/2018

(Atty, Docket No. P38060US1/28340US.1)

PATENT REEL: 047170 FRAME: 0070

v1.1

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Signed on the date indicated beside my signature.

Signature: _______ Date: Oct 2nd 2018

(Atty, Docket No. P38060US1/28340US, I).

PATENT REEL: 047170 FRAME: 0071

v1.[

RECORDED: 10/15/2018