504224625 02/13/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4271302

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
	Corrective Assignment to correct the PROPERTY NUMBER previously recorded on Reel 041143 Frame 0107. Assignor(s) hereby confirms the PROPERTY NUMBER SHOULD HAVE BEEN 15/274,130.

CONVEYING PARTY DATA

Name	Execution Date
ERICK A. GOMEZ	08/24/2016
BRET GOLDSMITH	08/24/2016
GORDON ROBERT MACDONALD	08/26/2016
HARSHAVARDHAN REDDY MUKKERA	08/24/2016
HIRENKUMAR PATEL	08/29/2016

RECEIVING PARTY DATA

Name:	JPMORGAN CHASE BANK, N.A.	
Street Address:	270 PARK AVENUE	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10017	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15274130

CORRESPONDENCE DATA

Fax Number: (614)248-4189

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: (614)217-4692

Email: jpmc.patents@jpmchase.com

Correspondent Name: JANET PETERSON

Address Line 1: 1111 POLARIS PARKWAY
Address Line 2: MAIL CODE OH1-0152
Address Line 4: COLUMBUS, OHIO 43240

ATTORNEY DOCKET NUMBER:	72167.001128
NAME OF SUBMITTER:	JANET PETERSON
SIGNATURE:	/Janet Peterson/
DATE SIGNED:	02/13/2017

PATENT 504224625 REEL: 041691 FRAME: 0869

Total Attachments: 10 source=72167.001128 Assignment As Filed 2-1-2017 and NORAD#page1.tif source=72167.001128 Assignment As Filed 2-1-2017 and NORAD#page2.tif source=72167.001128 Assignment As Filed 2-1-2017 and NORAD#page3.tif source=72167.001128 Assignment As Filed 2-1-2017 and NORAD#page4.tif source=72167.001128 Assignment As Filed 2-1-2017 and NORAD#page5.tif source=72167.001128 Assignment As Filed 2-1-2017 and NORAD#page6.tif source=72167.001128 Assignment As Filed 2-1-2017 and NORAD#page7.tif source=72167.001128 Assignment As Filed 2-1-2017 and NORAD#page8.tif source=72167.001128 Assignment As Filed 2-1-2017 and NORAD#page8.tif

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PATENT REEL: 041691 FRAME: 0870

ASSIGNMENT

WHEREAS, WE, Erick A. GOMEZ (citizen of US) residing at 21806 Sheffield Gray Trail, Cypress, TX 77433; US; Bret GOLDSMITH (citizen of US) residing at 1203 Pendergrass Trail, Sugarland, TX 77479, US; Gordon Robert MACDONALD (citizen of GB) residing at 181 8th Avenue, Apt. 2, Brooklyn, NY 11215, US; Harshavardhan Reddy MUKKERA (citizen of IN) residing at 110 Chandler Court, Sugar Land, TX 77479, US; and Hirenkumar PATEL (citizen of IN) residing at 5814 Sydney Park Lane, Sugar Land, TX 77479, US; have invented, developed, and/or have rights in the invention(s) (hereinafter "Invention") disclosure in a United States patent application entitled:

SYSTEMS AND METHODS FOR DISTRIBUTED MICRO SERVICES USING PRIVATE AND EXTERNAL NETWORKS

filed on	September 23, 2016	and accorded	Application No.	15/274,130	
(hereinafter	"Application"); and		ppva	10/2/1/200	

WHEREAS, JPMorgan Chase Bank, N.A., a corporation organized under the laws of the United States of America and the State of Ohio, and having a place of business at 270 Park Avenue, New York, NY 10017 (hereinafter "Assignee"), is desirous of acquiring the entire right, title, and interest in and to the Invention and in and to the Application.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to Assignee and its successors and assigns, our entire right, title and interest, worldwide, in and to the Invention and the Application, and all patents and applications, worldwide, claiming priority to and/or benefit of, directly or indirectly, or based in whole or in part on, said Application and/or said Invention, including continuations, continuations-in-part, divisionals, reissues, reexaminations, renewals, substitutes, and extensions thereof, and any international and regional applications, based in whole or in part on any of the aforesaid applications or in whole or in part on said Invention, and all priority rights under the International Convention for the Protection of Industrial Property for every member country, and all utility-model registrations, inventor's certificates, and the like heretofore or hereafter filed, worldwide, for the Invention, and in and to any and all patents (including all extensions, renewals, reexaminations and reissues thereof), worldwide, which have been or may be granted on any of the aforesaid applications or on said Invention or any parts thereof.

AND WE HEREBY covenant and agree for ourselves and our heirs, executors and administrators that we will communicate to Assignee any facts known to us respecting the Invention and the aforementioned applications, sign all lawful papers, testify in any legal proceeding, make all rightful oaths, and take any other actions that may be necessary or desirable to secure to Assignee its right, title, and interest in and to the aforementioned patents, applications and Invention, and generally do everything possible to aid Assignee to obtain and enforce proper patent protection for the Invention and the aforementioned patents and applications;

1 of 5 <{AMER_Active:6022896v1}>

PATENT REEL: 041691 FRAME: 0871 AND WE HEREBY agree to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said applications, or in the preparation or prosecution of any continuation, continuation-in-part, divisional, substitute, renewal, reexamination or reissue application or in any amendments, extensions or interference proceedings, or other applications for patents or similar rights of any region or country, that may be necessary to secure to Assignee its interest and title in and to said Invention or any parts thereof, and in and to said applications and patents;

AND WE HEREBY authorize and request our agents, Hunton & Williams, LLP, whose address is 2200 Pennsylvania Avenue NW, Washington, DC 20037, to insert hereon any identification necessary or desirable for recordation of this document, including the filing date and application number of said Application when known;

AND WE HEREBY covenant for ourselves and our legal representatives, and agree with said Assignee, its successors and assigns, that we have the full right to convey the entire interest herein assigned, and that we have granted no right or license to make, use, sell or offer to sell said Invention, to anyone except said Assignee, that prior to the execution of this deed, our right, title and interest in said Invention and said Application had not been otherwise encumbered, and that we have not and will not execute any instrument in conflict therewith;

AND WE HEREBY authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty is to issue patents on applications as aforesaid, to issue any and all letters patents which may be granted upon said United States and foreign applications or upon the Invention to the Assignee.

- SIGNATURES BEGIN ON NEXT PAGE -

2 of 5 <{AMER_Active:6022896v1}>

Erick A. GOMEZ Signature: Printed Name: Date: WITNESS WITNESS Signature: SPRatuth Signature: Printed Name: PRACAD RAGHUNATH CALGAME Printed Name: Jason & Silone Date: 08 24 2016 Date: 24 Aug 16 **Bret GOLDSMITH** Goldsmith Date: 24-Aug-2016 WITNESS WITNESS Signature: Printed Name: Printed Name: KRISHINA KUNAL Date: 8/24 Date: 08/24/2016

IN WITNESS WHEREOF, we have executed this Assignment as of the date set forth below.

Gordon Robert MACDONALD	
Signature: In world	
Printed Name: (50200N MACDONAL)	
Date: 26/446/2016	
WITNESS Signature: Award and Co	WITNESS Signature:
Printed Name: Amber Baldet	
Date: 8/26/2016	Date: 8/26/2016
Harshavardhan Reddy MUKKERA	
Signature:	
Printed Name:	
Date:	
WITNESS	WITNESS
Signature:	Signature:
Printed Name:	Printed Name:
Date:	Date:

4 of 5 <{AMER_Active:6022896v1}>

Gordon Robert MACDONALD	
Signature:	 -
Printed Name:	······································
Date:	
WITNESS	WITNESS
Signature:	Signature:
Printed Name:	Printed Name:
Date:	Date:
Harshavardhan Reddy MUKKERA Signature: Printed Name: HAPSHAVARDHAN Date: 08 24 2016	CEDDY MUKKER-M
Printed Name: HAPSHAVARD HAND Date: 08/24 2016	PEDDY MUKKER-14 WITNESS
Printed Name: HAPSHAVARD HAND Date: 08/24 2016	- TEDDY MUKKERY
Signature: Printed Name: HAZSHTVARDHAN	PEDDY MUKKER-YA WITNESS Signature: Ghap

Attorney Docket No. 72167.001128

Hirenkumar PATEL		
Signature: 2/2 Late		
Printed Name: Hisen Patel		
Date: <u>8/29/7016</u>		
WITNESS	WITNESS	
Signature: <u>Ami' Pestes</u>	Signature:	42
Printed Name: Arri Pede	Printed Name:	1 Brunes Pasa
Date: 2/29/16	To and a second	W 3 % 3 %

Assignment Page 1 of 2

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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HIRENKUMAR PATEL	08/29/2016

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that is unsuccessful, it will be sent via US Mail.

Correspondent Name:JANET PETERSONAddress Line 1:1111 POLARIS PARKWAYAddress Line 2:MAIL CODE OH1-0152Address Line 4:COLUMBUS, OHIO 43240

ATTORNEY DOCKET NUMBER:	72167.001128
NAME OF SUBMITTER:	JANET PETERSON
Signature:	/Janet Peterson/

Assignment Page 2 of 2

Date: 02/01/2017

Total Attachments: 6

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RECEIPT INFORMATION

EPAS ID: PAT4253589 **Receipt Date:** 02/01/2017