PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AARON K. BAUGHMAN	08/15/2019
SHIKHAR KWATRA	08/14/2019
RAGHUVEER PRASAD NAGAR	08/16/2019
SARBAJIT K. RAKSHIT	08/15/2019

RECEIVING PARTY DATA

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	NEW ORCHARD ROAD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16547269

CORRESPONDENCE DATA

Fax Number:

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Correspondent Name: IBM END IPLAW (GLF) C/O GARG LAW FIRM PLLC

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ATTORNEY DOCKET NUMBER:	P201900913US01
NAME OF SUBMITTER:	SABRINA ERNST
SIGNATURE:	/Sabrina Ernst/
DATE SIGNED: 08/21/2019	
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 4

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PATENT REEL: 050122 FRAME: 0123

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> PATENT REEL: 050122 FRAME: 0124

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

INTELLIGENT CONTEXTUAL TIMELINING OF NOTIFICATIONS

	hereby declare that: the attached application, or (if follow PCT international application numbers)		filed on
The above-identified applicat I believe that I am the origina I have reviewed and understar I am aware of the duty to disc be material to patentability as Whereas, the undersigned inverferred to as the "Invention" Docket Number provided about Whereas, International Busine Armonk, New York (herein reto IBM, the entire worldwide applications and patents direct Now, therefore, for good and acknowledged, each undersign otherwise transfers or has transfer the entire worldwide right, tit	ion was made or authorized to be in a linventor or an original joint invertor of the contents of the application, it close to the United States Patent and defined in 37 CFR Section 1.56. The entor(s) has/have made certain invertors of this document; which is the header of this document; which is the header of this document; which is the same and interest in and to the ted thereto; waluable consideration, the receipt need inventor ("ASSIGNOR") here insferred to IBM (the "ASSIGNEE" le, and interest in and to the Inventor the same and the s	nade by me. Intor of a claimed invention in the including the claims. Including the claim	he application. ation known to me to scoveries (herein identified by the IBM blace of business at ventor desires to grant and all patent hereby has assigned, and intatives, and assigns, ed States patent
granted therefor in the United continuations, reissues, reexact all rights of priority resulting undersigned inventor hereby at to issue any United States Pat Invention, to IBM, its success and to the same to be held and the terms for which any and a enjoyed by the undersigned hany and all documents and insor perfecting title to the Invented representatives, and assigns, we Each undersigned inventor accument this Assignment to IBM to sell, assign, and transfer the execute, any document or instructional successors, legal representative (including, but not limited to, this Assignment. This Assign will be resolved in a New Yor I hereby acknowledge that an	ther patent applications and patents. States and in all foreign countries minations, renewals, extensions, confrom the filing of such applications authorizes and requests the Director ent, and foreign patent authorities as sors, legal representatives, and assigned enjoyed by IBM, its successors, I ll such patents may be granted, as and this Assignment not been made; struments and perform all lawful as attion and all related patents and approximate approximate the patents and approximate the patents and approximate the patents and assigned, and the sunaware of any reason white rights hereby sold, assigned, and the trument in conflict herewith. Each trument is governed by the substantive patent Application Number) which ment is governed by the substantive that the trument made in the patent than five (5) years, or both.	and jurisdictions, including all punterparts, substitutes, and exist and granting of such patents. It of the United States Patent a to issue any foreign patent, gragns, the entire worldwide right egal representatives, and assig fully and entirely as would have and each undersigned inventors reasonably related to record polications, in IBM, its successor coessors, legal representatives, gobligations to sell, assign, any they may not have the full artransferred, and has not execut undersigned inventor also her in this Assignment any further in may be necessary or desirably the laws of the State of New York. The instantian is punishable unished the state of the s	I divisions, tensions thereof, and In addition, each and Trademark Office anted for the attitle, and interest in ms to the full end of we been held and or agrees to execute ling this Assignment ors, legal are assigns. In a division of the division of the eby grants IBM, its redentification efor recordation of ork, and any disputes
(1) Legal Name of Invento	or: AARON K. BAUGHMAN		
Sionature	Own Ros	Date:	08/15/2019

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DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

INTELLIGENT CONTEXTUAL TIMELINING OF NOTIFICATIONS

1 h	
(2) Legal Name of Inventor: SHIKHAR KWATRA	
The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I bave reviewed and understand the contents of the application, including the claims. I am aware of the duty to disclose to the United States Patent and Trademark Office all information known be material to patentability as defined in 37 CFR Section 1.56. Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (he referred to as the "Invention") disclosed in the above-identified patent application and further identified by Docket Number provided above in the header of this document; Whereas, International Business Machines Corporation, a corporation of New York having a place of busin Armonk, New York (herein referred to as "BBM"), desires to acquire, and each undersigned inventor desire to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto; Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and the entire worldwide right, title, and interest in and to the Invention, the above-identified United States pate application, and any and all other patent applications and patents for the Invention which may be applied fo granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thera all rights of priority resulting from the filing of such applications and granting of such patents. In addition, undersigned inventor hereby authorizes and requests the Director of the United States Pa	rein the IBM ess at s to grant t , and assigns, nt or or eof, and each k Office terest in end of and execute gnment erights ered right not BM, its n tion of disputes
As a below named inventor, I hereby declare that: This declaration is directed to the attached application, or (if following box is checked): [] United States application or PCT international application number	led on

Page 2 of 4

Signature:

Date: 08/14/2019

IBM DOCKET NUMBER: P201900913US01

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

INTELLIGENT CONTEXTUAL TIMELINING OF NOTIFICATIONS

As a below named inventor, I hereby declare that:	
This declaration is directed to the attached application, or (if following box is checked):	
[] United States application or PCT international application number	filed on
The above-identified application was made or authorized to be made by me.	
	uð
I believe that I am the original inventor or an original joint inventor of a claimed invention in the applicat	19B.
I have reviewed and understand the contents of the application, including the claims.	
I am aware of the duty to disclose to the United States Patent and Trademark Office all information know	mio me io
be material to patentability as defined in 37 CFR Section 1.56.	
Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (heremi
referred to as the "Invention") disclosed in the above-identified patent application and further identified by	y us ism
Docket Number provided above in the header of this document;	
Whereas, International Business Machines Corporation, a corporation of New York having a place of bus	
Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor desi	
to IBM, the cutire worldwide right, title, and interest in and to the Invention and in and to any and all par-	ein
applications and patents directed thereto;	
Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby	
acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assign	
otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, an	
the entire worldwide right, title, and interest in and to the Invention, the above-identified United States pa	itent
application, and any and all other patent applications and patents for the Invention which may be applied	for or
granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions,	
continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions th	ereof, and
all rights of priority resulting from the filing of such applications and granting of such patents. In additio	n, each
undersigned inventor hereby authorizes and requests the Director of the United States Patent and Tradem	
to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for th	
Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and	interest in
and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the fu	
the terms for which any and all such patents may be granted, as fully and entirely as would have been hel	
enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to	
any and all documents and instruments and perform all lawful acts reasonably related to recording this A	
or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal	mgamam
representatives, and assigns, whenever requested by IBM, its successors, logal representatives, or assigns	
Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer	
under this Assignment to IBM and is unaware of any reason why they may not have the full and unencum	
to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and wi	
execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants	IBM, as
successors, legal representatives, and assigns, the right to insert in this Assignment any further identificat	
(including, but not limited to, patent Application Number) which may be necessary or desirable for recon-	
this Assignment. This Assignment is governed by the substantive laws of the State of New York, and arr	y disputes
will be resolved in a New York state court or federal court sited in New York.	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S	i.C. 1001
by fine or imprisonment of not more than five (5) years, or both.	
(3) Legal Name of Inventor: RAGHUVEER PRASAD NAGAR	
(5) Legal Paule of Inventor, NATING VEER PRASAD NAGAR	
La	
Signature: Date: 14-AUL	- 2013

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DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

INTELLIGENT CONTEXTUAL TIMELINING OF NOTIFICATIONS

As a below named inventor, I hereby dee	clare that:		
This declaration is directed to the attache	ed application, or (if following box is check	(ed):	
[] United States application or PCT into	ernational application number		filed on
The above-identified application was ma			
I believe that I am the original inventor of	or an original joint inventor of a claimed inv	vention in th	ne application.
I have reviewed and understand the cont	ents of the application, including the claims	S.	
I am aware of the duty to disclose to the	United States Patent and Trademark Office	all informa	tion known to me to
be material to patentability as defined in	37 CFR Section 1.56.		
Whereas, the undersigned inventor(s) ha	s/have made certain inventions, improveme	ents, and dis	coveries (herein
referred to as the "Invention") disclosed	in the above-identified patent application a	nd further i	dentified by the IBM
Docket Number provided above in the h	eader of this document;		
Whereas, International Business Machin	es Corporation, a corporation of New York	having a p	ace of business at
Armonk, New York (herein referred to a	s "IBM"), desires to acquire, and each under	ersigned inv	entor desires to grant
to IBM, the entire worldwide right, title,	and interest in and to the Invention and in a	and to any a	nd all patent
applications and patents directed thereto	•	_	_
Now, therefore, for good and valuable co	onsideration, the receipt and sufficiency the	reof being l	nereby
acknowledged, each undersigned invente	or ("ASSIGNOR") hereby sells or has sold,	assigns or	has assigned, and
otherwise transfers or has transferred to	IBM (the "ASSIGNEE"), its successors, leg	gal represen	tatives, and assigns,
the entire worldwide right, title, and inte	rest in and to the Invention, the above-ident	tified Unite	d States patent
application, and any and all other patent	applications and patents for the Invention v	vhich may b	e applied for or
granted therefor in the United States and	in all foreign countries and jurisdictions, in	ncluding all	divisions,
continuations, reissues, reexaminations,	renewals, extensions, counterparts, substitu	tes, and ext	ensions thereof, and
	ling of such applications and granting of su		
undersigned inventor hereby authorizes	and requests the Director of the United Stat	es Patent ar	d Trademark Office
to issue any United States Patent, and for	reign patent authorities to issue any foreign	patent, gra	nted for the
Invention, to IBM, its successors, legal r	epresentatives, and assigns, the entire work	dwide right,	title, and interest in
and to the same to be held and enjoyed b	y IBM, its successors, legal representatives	s, and assign	s to the full end of
the terms for which any and all such pate	ents may be granted, as fully and entirely as	would hav	e been held and
enjoyed by the undersigned had this Ass	ignment not been made; and each undersign	ned invento	r agrees to execute
any and all documents and instruments a	nd perform all lawful acts reasonably relate	ed to record	ing this Assignment
or perfecting title to the Invention and al	l related patents and applications, in IBM, i	ts successo	rs, legal
	equested by IBM, its successors, legal repre		
Each undersigned inventor acknowledge	s their prior and ongoing obligations to sell	, assign, an	d transfer the rights
under this Assignment to IBM and is una	aware of any reason why they may not have	the full an	d unencumbered right
to sell, assign, and transfer the rights her	eby sold, assigned, and transferred, and has	not execut	ed, and will not
execute, any document or instrument in	conflict herewith. Each undersigned invent	tor also here	by grants IBM, its
successors, legal representatives, and ass	signs, the right to insert in this Assignment	any further	identification
(including, but not limited to, patent App	olication Number) which may be necessary	or desirable	for recordation of
this Assignment. This Assignment is go	verned by the substantive laws of the State	of New Yo	rk, and any disputes
will be resolved in a New York state cou	rt or federal court sited in New York.		
I hereby acknowledge that any willful fa	lse statement made in this declaration is pu	nishable un	der 18 U.S.C. 1001
by fine or imprisonment of not more than	n five (5) years, or both.		
(4) Legal Name of Inventor: SARBA	AJIT K. RAKSHIT		
-			
	D#5		
			15-Aug-2019
Signature:	"MAC!!	Date:	

Page 4 of 4