## 506040159 04/30/2020

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6086874

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MARY RUDDEN	04/30/2020
CRAIG M. TRIM	04/30/2020
MARTIN G. KEEN	04/30/2020
JOHN M. GANCI JR.	04/30/2020
HERNAN A. CUNICO	04/30/2020

#### RECEIVING PARTY DATA

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Street Address:	NEW ORCHARD ROAD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16863786

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	P202001243US01
NAME OF SUBMITTER:	SABRINA ERNST
SIGNATURE:	/SABRINA ERNST/
DATE SIGNED:	04/30/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 052542 FRAME: 0699

# **Total Attachments: 5**source=P202001243US01\_Assignment\_Declaration#page1.tif source=P202001243US01\_Assignment\_Declaration#page2.tif source=P202001243US01\_Assignment\_Declaration#page3.tif source=P202001243US01\_Assignment\_Declaration#page4.tif

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PATENT REEL: 052542 FRAME: 0700

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

## IDENTIFYING RELATED MESSAGES IN A NATURAL LANGUAGE INTERACTION

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
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Signature:	<sub>Date</sub> 30-Apr-2020

Page 1 of 5

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and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the fu	ıll end of
the terms for which any and all such patents may be granted, as fully and entirely as would have been hel	d and
enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to	execute
any and all documents and instruments and perform all lawful acts reasonably related to recording this A	ssignment
or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal	
representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns	
Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer	the rights
under this Assignment to IBM and is unaware of any reason why they may not have the full and unencum	nbered right
to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and wi	ll not
execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants	
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 recor	
this Assignment. This Assignment is governed by the substantive laws of the State of New York, and an	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.	S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.	

(2) Legal Name of Inventor: **CRAIG M. TRIM** 

Page 2 of 5

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MG/00 - 4/30/2020	of miles of migration and more than 11.10 (c) forms, or come.	
Signature: Date: 4/30/2020	(3) Legal Name of Inventor: MARTIN G. KEEN	
Signature: 4/30/2020 Date:	$\mathcal{O}$ $\mathcal{O}$ $\mathcal{O}$	
Signature:	11/(21/0.	4/00/2020
	Signature:	Date: 4/30/2020

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

### IDENTIFYING RELATED MESSAGES IN A NATURAL LANGUAGE INTERACTION

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	Sied on
	**************
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 t	die cootinging
r terrover that cannote original mireonol than so guid primit account to a commeditive and solution. I have reviewed and understand the contents of the application, including the claims.	ne aldmeanm
f am aware of the duty to disclose to the United States Patent and Trademark Office all inform be material to patentability as defined in 37 CFB Section 1.56.	ation known to me to
Whereas, the undersigned inventor(s) has have made certain inventions, improvements, and di	scoveries (herein
referred to as the "Invention") disclosed in the above-identified patent application and further. Docket Number provided above in the header of this document:	identified by the IBN
Whereas, International Business Machines Corporation, a corporation of New York having a p Amonk, New York (herein referred to as "IBM"), dissess to acquire, and each undersigned in to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to my	ventor desires to gran
applications and patents directed thereto; Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being	hamaka
scknowledged, each undersigned inventor ("ASSIGNOR") hereby solls or has sold, assigns or otherwise transfers or his transferred to IBM (the "ASSIGNEE"), its successors, legal represe	has assigned, and
the entire worldwide right, title, and interest in and to the Invention, the above-identified Unite	
application, and any and all other patent applications and patents for the Invention which may	
granted therefor in the United States and in all foreign countries and jurisdictions, including al	
continuations, reissues, reexisminations, renewals, extensions, counterparts, substitutes, and ex all rights of priority resulting from the filing of such applications and granting of such patents undersigned inventor hereby authorizes and requests the Director of the United States Patent a to issue any United States Patent, and foreign patent authorities to issue any foreign patent, gro	In addition, each nd Trademark Office
Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right and to the same to be held and enjoyed by IBM. Its successors, legal representatives, and assign the terms for which my and all such patents may be granted, as fully and entirely as would haven joyed by the undersigned had this Assignment was been made, and such undersigned invents any and all documents and instruments and perform all lawful acts reasonably related to record or perfecting title to the invention and all related patents and applications, in IBM, its successor representatives, and assigns, whenever requested by IBM, its successors, legal representatives.	is to the full end of we been held and or agrees to execute ding this Assignment as, legal or assigns.
Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, are under this Assignment to IBM and is unaware of any reason why they may not have the full at the sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, assigned and transferred, and has not executed, any document or insurment in conflict herewith. Each undersigned inventor also her successors, legal representatives, and assigns, the right to insert in this Assignment any further (including, but not limited to, patent Application Number) which may be necessary or desirable this Assignment. This Assignment is governed by the substantive laws of the State of New Yorks.	id programbered rigited, and will not eby grants IBM, its identification te for recondition of
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 us by fine or imprisonment of not more than five (5) years, or both.	nder 18 U.S.C. 1001
(4) Legal Name of Inventor: JOHN M. GANCE JR.	
17	. 8
Signature: Han M. Harrett. Date.	4/30/20
Page 4 of 5	

PATENT

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

## IDENTIFYING RELATED MESSAGES IN A NATURAL LANGUAGE INTERACTION

IDENTIFIED RELATED RESSAUES IN A NATURAL LANGUAGE INTERACTION
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.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
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 known to me to
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 (herein
referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM
Docket Number provided above in the header of this document;
Whereas, International Business Machines Corporation, a corporation of New York having a place of business at
Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor desires to gran
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, and
otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns,
the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent
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 thereof, and
all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each
undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office
to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the
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 full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and
enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute
any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment
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representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.
Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights
under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right
to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not
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by fine or imprisonment of not more than five (5) years, or both.
(5) Legal Name of Inventor: HERNAN A. CUNICO

Page 5 of 5

PATENT REEL: 052542 FRAME: 0705

Date: 2020-04-30