PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6181786

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN A. SCHUMANN	06/03/2020
THARUNACHALAM PINDICURA	06/10/2020
SHRICHARAN SRIVATSAN	06/03/2020
VIVEK BRITTO	06/10/2020
MADHUMITHA VENKATARAMAN	06/04/2020

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:	16918675

CORRESPONDENCE DATA

Fax Number: (281)886-7716

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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Email: uspto@garglaw.com

Correspondent Name: IBM AUS IPLAW (GLF)

Address Line 1: C/O GARG LAW FIRM, PLLC

Address Line 2: 800 BONAVENTURE WAY, SUITE 115

Address Line 4: SUGAR LAND, TEXAS 77479

ATTORNEY DOCKET NUMBER: P201900333US01

NAME OF SUBMITTER: SABRINA ERNST

SIGNATURE: /SABRINA ERNST/

DATE SIGNED: 07/01/2020

This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 506135059 REEL: 053102 FRAME: 0674

Total Attachments: 5source=P201900333US01_Assignment_Declaration#page1.tif source=P201900333US01_Assignment_Declaration#page2.tif source=P201900333US01_Assignment_Declaration#page3.tif source=P201900333US01_Assignment_Declaration#page4.tif

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PATENT REEL: 053102 FRAME: 0675

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

METHOD FOR LATENCY DETECTION ON A HARDWARE SIMULATION ACCELERATOR

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 shove identified application was made as outhorized to be made by ma	
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 applica	tion.
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 be material to patentability as defined in 37 CFR Section 1.56.	vn to me to
Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries	(L:_
referred to as the "Invention") disclosed in the above-identified patent application and further identified	
Docket Number provided above in the header of this document;	by the IBM
Whereas, International Business Machines Corporation, a corporation of New York having a place of bu	cinece at
Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor des	
to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all pat	nes to gran ent
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	ed, and
otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, as	nd assigns,
the entire worldwide right, title, and interest in and to the Invention, the above-identified United States p	atent
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 the	ereof, and
all rights of priority resulting from the filing of such applications and granting of such patents. In addition	on, each
undersigned inventor hereby authorizes and requests the Director of the United States Patent and Tradem	ark 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	
and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the fi	ull end of
the terms for which any and all such patents may be granted, as fully and entirely as would have been he	ld 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	6. 41 1. 4
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 unencur to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and w	
execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants	III IIUL IRM ite
successors, legal representatives, and assigns, the right to insert in this Assignment any further identification	
(including, but not limited to, patent Application Number) which may be necessary or desirable for record	
this Assignment. This Assignment is governed by the substantive laws of the State of New York, and an	
will be resolved in a New York state court or federal court sited in New York.) ampanos
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 II	S C 1001

Page 1 of 5

(1) Legal Name of Inventor: JOHN A. SCHUMANN

by fine or imprisonment of not more than five (5) years, or both.

Date:

: 04/03/2022

IBM DOCKET NUMBER: P201900333US01

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I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.	
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Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor desires to gra	nt
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	á
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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	1
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	3
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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	Ĺ
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under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered rig	thi
to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not	
execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, its	
successors, legal representatives, and assigns, the right to insert in this Assignment any further identification	
(including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of	
this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes	\$
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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001	
by fine or imprisonment of not more than five (5) years, or both.	
(2) Legal Name of Inventor: THARUNACHALAM PINDICURA	
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Signature: P. Thounocholom Date: 6/10/20	
Signature: V · / Nonumberouter Date: 0/10/20	

Page 2 of 5

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Page 1 of 1

Date: 06/03/2020

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(4) Legal Name of Inventor: VIVEK BRITTO
Signature:
Signatura: VIVOK DOIIO
Signature: Date:

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Page 5 of 5

Signature: <u>Hadhumilho Y</u>

RECORDED: 07/01/2020

PATENT REEL: 053102 FRAME: 0680

Date: 6/4/20