505502743 05/31/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VIGNESH VIVEKRAJA	05/23/2019
YU ZHOU	05/23/2019
RON DIAMANT	05/23/2019
RANDY RENFU HUANG	05/29/2019
RICHARD JOHN HEATON	05/29/2019

RECEIVING PARTY DATA

Name:	AMAZON TECHNOLOGIES, INC.
Street Address:	PO BOX 81226
City:	SEATTLE
State/Country:	WASHINGTON
Postal Code:	98108-1226

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16368538

CORRESPONDENCE DATA

Fax Number:

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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Correspondent Name: KILPATRICK TOWNSEND & STOCKTON LLP

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Address Line 4: SEATTLE, WASHINGTON 98101

ATTORNEY DOCKET NUMBER:	097307-1117393 (131000US)
NAME OF SUBMITTER:	GRETA FLORES
SIGNATURE:	/Greta Flores/
DATE SIGNED:	05/31/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 049330 FRAME: 0239

505502743

Total Attachments: 8

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PATENT REEL: 049330 FRAME: 0240

U.S. Patent Appln. No. <u>16/368,538</u> Attorney Docket No. <u>097307-1117393 (131000US)</u>

Filing Date March 28, 2019 Client Docket No. P63357-US01

PARTIES TO THE ASSIGNMENT

Assignor(s):

Vignesh Vivekraja

410 Terry Avenue North Seattle, WA 98109-5210

Yu Zhou

410 Terry Avenue North Seattle, WA 98109-5210

Ron Diamant

410 Terry Avenue North Seattle, WA 98109-5210

Assignee:

Amazon Technologies, Inc. PO Box 81226 Seattle, WA 98108-1226

AGREEMENT

Randy Renfu Huang 410 Terry Avenue North Seattle, WA 98109-5210

Richard John Heaton 410 Terry Avenue North Seattle, WA 98109-5210

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "ASSISTED INDIRECT MEMORY ADDRESSING" (Invention) for which a non-provisional application for United States Letters Patent (Application):

\boxtimes	was filed on March 28, 2019 and accorded U.S. Application No. 16/368,538; or
	will be filed concurrently with the submission of this executed PATENT ASSIGNMENT
	for recordation.

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of Kilpatrick Townsend & Stockton LLP, associated with Customer No. 107508, to insert in the header above and here in parentheses (U.S. Patent Application No. 16/368,538, filed March 28, 2019) this application's U.S. application number and filing date, when known.

PATENT

REEL: 049330 FRAME: 0241

U.S. Patent Appln. No. 16/368,538

Attorney Docket No. 097307-1117393 (131000US)

Filing Date March 28, 2019

Client Docket No. P63357-US01

Title of Invention: ASSISTED INDIRECT MEMORY ADDRESSING

Inventors: Vignesh Vivekraja, Yu Zhou, Ron Diamant, Randy Renfu Huang, Richard John Heaton

WHEREAS, ASSIGNEE, a corporation of the State of Nevada, is desirous of acquiring the entire right, title and interest in and to the Invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said Invention and any improvements thereto, said Application and any and all letters patent which may be granted for said Invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all provisional, divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said Application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said Invention, Application and all letters patent on said Invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks, as well as all other applicable patent offices throughout the world, to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said Invention, for litigation

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PATENT REEL: 049330 FRAME: 0242

U.S. Patent Appln. No. 16/368,538

Attorney Docket No. 097307-1117393 (131000US)

Filing Date March 28, 2019

Client Docket No. P63357-US01

Title of Invention: ASSISTED INDIRECT MEMORY ADDRESSING

Inventors: Vignesh Vivekraja, Yu Zhou, Ron Diamant, Randy Renfu Huang, Richard John Heaton

regarding said letters patent, or for the purpose of protecting title to said Invention or letters

patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its

successors, legal representatives, and assigns all claims for damages and all remedies arising out

of any violation of the rights assigned hereby that may have accrued prior to the date of

assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue

for, collect, and retain damages for past infringements of said letters patent before or after

issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will

communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to

ASSIGNOR respecting the Invention or said Application, and testify in any legal proceeding, assist

in the preparation of any other patent property relating to the Application and the Invention or

any improvements made thereto, sign/execute all lawful papers, provide all requested

documents, execute and make all rightful oaths and/or declarations in connection with the

Application and the Invention including any improvements made thereto, any patent

applications filed therefrom, and any continuing application filed from any of the

aforementioned applications, and generally do everything possible to aid ASSIGNEE, its

successors, legal representatives and assigns, to obtain and enforce proper patent protection for

the Invention in all countries. These provisions are binding upon ASSIGNOR's heirs, legal

representatives, administrators, and assigns.

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PATENT

REEL: 049330 FRAME: 0243

U.S. Patent Appln. No. <u>16/368,538</u>	Attorney Docket No. <u>097307-1117393 (131000US)</u>
Filing Date March 28, 2019	Client Docket No. P63357-US01
Title of Invention: ASSISTED INDIRECT MEMOR	RY ADDRESSING
Inventors: Vignesh Vivekraja, Yu Zhou, Ron D	Diamant, Randy Renfu Huang, Richard John Heaton
<u>DECLARATION</u>	
As a below named inventor, I hereby declare	that:
This declaration is directed to:	
the attached application; or	
United States Patent Application	number <u>16/368,538</u> filed on <u>March 28, 2019</u> ; or
PCT International Application nun	nber filed on
The above-identified application was made o	r authorized to be made by me.
I believe that I am the original inventor or an application.	original joint inventor of a claimed Invention in the
I have reviewed and understand the contents	s of the above-identified application, and
acknowledge the duty to disclose to the US P	atent & Trademark Office all information known to
me to be material to the patentability as defi	ned in 37 CFR 1.56.
I hereby acknowledge that any willful false st under 18 USC 1001 by fine or imprisonment of	atement made in this declaration is punishable of not more than five (5) years, or both.
DocuSigned by: Wash Vinkraja/ 3F21AB3DC8E844D Vignesh Vivekraja	
May 23, 2019	
Date	

U.S. Patent Appln. No. <u>16/368,538</u>	Attorney Docket No. <u>097307-1117393 (131000US)</u>
Filing Date <u>March 28, 2019</u>	Client Docket No. P63357-US01
Title of Invention: <u>ASSISTED INDIRECT MEMOI</u>	RY ADDRESSING
Inventors: Vignesh Vivekraja, Yu Zhou, Ron C	Diamant, Randy Renfu Huang, Richard John Heaton
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As a below named inventor, I hereby declare	that:
This declaration is directed to:	
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United States Patent Application	number <u>16/368,538</u> filed on <u>March 28, 2019</u> ; or
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The above-identified application was made o	r 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	
	atent & Trademark Office all information known to
me to be material to the patentability as defi	ned in 37 CFR 1.56.
l harahy asknowladga that any willful falsa st	atomont made in this declaration is nunishable
-	atement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonment o	of not more than five (5) years, or both.
DocuSigned by:	
6A3D843486854C1	
Yu Zhou	
May 23, 2019	
Date	

U.S. Patent Appln. No. <u>16/368,538</u>	Attorney Docket No. <u>097307-1117393 (131000US)</u>
Filing Date <u>March 28, 2019</u>	Client Docket No. <u>P63357-US01</u>
Title of Invention: <u>ASSISTED INDIRECT ME</u>	MORY ADDRESSING
Inventors: Vignesh Vivekraja, Yu Zhou , R	Ron Diamant, Randy Renfu Huang, Richard John Heaton
<u>DECLARATION</u>	
As a below named inventor, I hereby dec	lare that:
This declaration is directed to:	
the attached application; or	
	tion number <u>16/368,538</u> filed on <u>March 28, 2019</u> ; or
PCT International Application	number filed on
The above-identified application was ma	de or authorized to be made by me.
I believe that I am the original inventor o	r an original joint inventor of a claimed Invention in the
application.	
I have reviewed and understand the cont	tents of the above-identified application, and
acknowledge the duty to disclose to the	US Patent & Trademark Office all information known to
me to be material to the patentability as	defined in 37 CFR 1.56.
I hereby acknowledge that any willful fal	se statement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonm	ent of not more than five (5) years, or both.
/Ron Diamant/	
6EE104A43A584D5	
Ron Diamant	
May 23, 2019	
Date	

U.S. Patent Appln. No. 16/368,538 Attorney Docket No. <u>097307-1117393 (131000US)</u> Filing Date March 28, 2019 Client Docket No. P63357-US01 Title of Invention: <u>ASSISTED INDIRECT MEMORY ADDRESSING</u> Inventors: Vignesh Vivekraja, Yu Zhou, Ron Diamant, Randy Renfu Huang, Richard John Heaton DECLARATION As a below named inventor, I hereby declare that: This declaration is directed to: the attached application; or \square United States Patent Application number <u>16/368,538</u> filed on <u>March 28, 2019</u>; 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 above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. Randy Renfu Huang May 29, 2019 Date

U.S. Patent Appln. No. <u>16/368,538</u>	Attorney Docket No. <u>097307-1117393 (131000US)</u>
Filing Date <u>March 28, 2019</u>	Client Docket No. P63357-US01
Title of Invention: ASSISTED INDIRECT MEMO	RY ADDRESSING
Inventors: Vignesh Vivekraja, Yu Zhou, Ron	Diamant, Randy Renfu Huang, Richard John Heaton
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I believe that I am the original inventor or ar application.	n original joint inventor of a claimed Invention in the
I have reviewed and understand the content	s of the above-identified application, and
acknowledge the duty to disclose to the US I	Patent & Trademark Office all information known to
me to be material to the patentability as def	ined in 37 CFR 1.56.
I hereby acknowledge that any willful false s	tatement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonment	of not more than five (5) years, or both.
Docusigned by: /Kichard John Heaton/ Richard John Heaton	
May 29, 2019	
Date	

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PATENT REEL: 049330 FRAME: 0248