

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4491360

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THOMAS E. CARROLL	05/22/2017
SATISH CHIKKAGOUDAR	05/22/2017
KRISTINE M. ARTHUR-DURETT	05/22/2017
DENNIS G. THOMAS	05/22/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Battelle Memorial Institute
<b>Street Address:</b>	902 Battelle Boulevard
<b>City:</b>	Richland
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	99352
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15486162
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(503)595-5301
<i>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.</i>	
<b>Phone:</b>	503 595 5300
<b>Email:</b>	iris.rasanen@klarquist.com
<b>Correspondent Name:</b>	KYLE B. RINEHART, KLARQUIST SPARKMAN, LLP
<b>Address Line 1:</b>	121 SW SALMON STREET, SUITE 1600
<b>Address Line 2:</b>	ONE WORLD TRADE CENTER
<b>Address Line 4:</b>	PORTLAND, OREGON 97204
<b>ATTORNEY DOCKET NUMBER:</b>	23-98456-01
<b>NAME OF SUBMITTER:</b>	KYLE B. RINEHART
<b>SIGNATURE:</b>	/Kyle B. Rinehart/
<b>DATE SIGNED:</b>	07/06/2017
<b>Total Attachments: 5</b>	
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## ASSIGNMENT

WHEREAS, we, Thomas E. Carroll, of Richland, Washington, Satish Chikkagoudar, of Richland, Washington, Kristine M. Arthur-Durett, of Richland, Washington, and Dennis G. Thomas, of Kennewick, WA, have invented a certain invention, as described in the following patent application:

U.S. Patent Application No. 15/486,162, filed on April 12, 2017, entitled

“COMPLEMENTARY WORKFLOWS FOR IDENTIFYING ONE-HOP  
NETWORK BEHAVIOR AND MULTI-HOP NETWORK DEPENDENCIES,”

which application is referred to as the “patent application.”

WHEREAS, Battelle Memorial Institute, a corporation organized under the laws of the State of Ohio, having a place of business in the city of Richland, Washington, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Thomas E. Carroll, Satish Chikkagoudar, Kristine M. Arthur-Durett, and Dennis G. Thomas, hereby sell, assign, and transfer to Battelle Memorial Institute, the full and exclusive right, title, and interest in and to said invention, patent application, and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, patent application, and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by Battelle Memorial Institute, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to Battelle Memorial Institute, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid Battelle Memorial Institute, its successors, and assigns to obtain


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and enforce proper patent protection for said invention in the United States or any foreign country.

We confirm that, at the time the invention was made, we were under an obligation to assign the invention to Battelle Memorial Institute.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

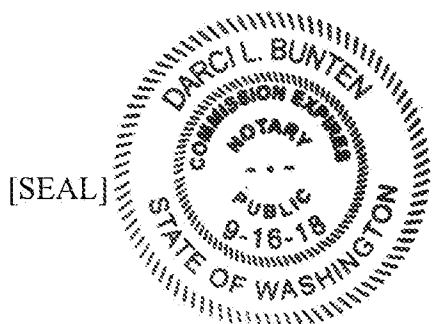
Executed at the place and date opposite our respective signatures below.


  
Thomas E. Carroll

At Richland, WA  
(City and State)  
on this 22 day of May, 2017.

STATE OF Washington )  
COUNTY OF Benton ) ss.

This 22 day of May, 2017, before me personally came the above-named Thomas E. Carroll, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Thomas E. Carroll's own free will for the purpose set forth therein.



  
Notary Public For State of WA  
My commission expires: 9/16/18

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*Lat Mo*

Satish Chikkagoudar

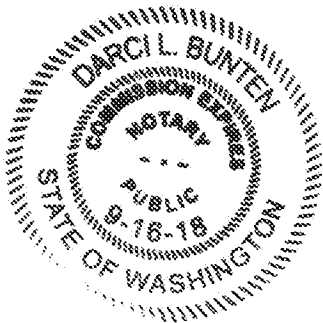
At Richland, WA  
(City and State)  
on this 22 day of May, 2017.

STATE OF Washington )  
COUNTY OF Benton ) SS.

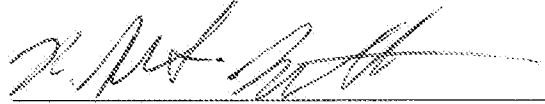
This 22 day of May, 2017, before me personally came the above-named Satish Chikkagoudar, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Satish Chikkagoudar's own free will for the purpose set forth therein.

Darci L. Buntan  
Notary Public For State of WA  
My commission expires: 9/16/18

[SEAL]



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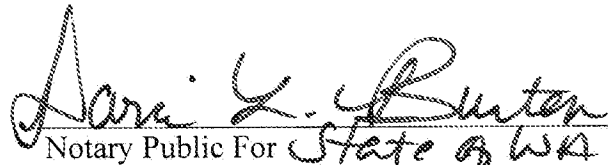


Kristine M. Arthur-Durett

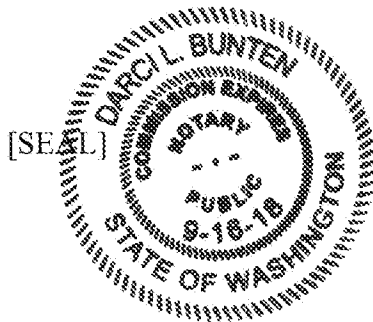
At Richland, WA  
(City and State)  
on this 22 day of May, 2017.

STATE OF Washington )  
COUNTY OF Benton ) ss.

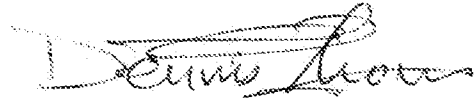
This 22 day of May, 2017, before me personally came the above-named Kristine M. Arthur-Durett, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Kristine M. Arthur-Durett's own free will for the purpose set forth therein.



Notary Public For State of WA  
My commission expires: 9/16/18



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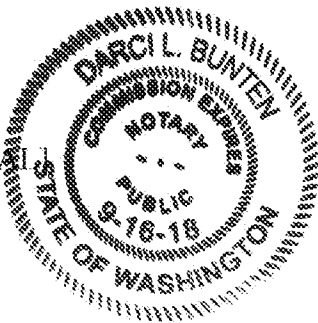
Dennis G. Thomas

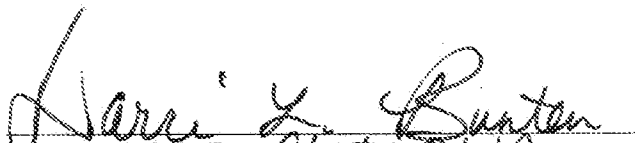
At Richland, WA  
(City and State)  
on this 22 day of May, 2017.

STATE OF Washington)  
COUNTY OF Benton) ss.

This 22 day of May, 2017, before me personally came the above-named Dennis G. Thomas, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Dennis G. Thomas's own free will for the purpose set forth therein.

[SEAL]



  
Notary Public For State of WA  
My commission expires: 9/16/18