PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5685225

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL HINGSTON MCLAUGHLIN BURSELL	08/17/2019
NATHANIEL PHILIP MCCALLUM	08/13/2019
PETER M. JONES	08/14/2019
JOHN DAVID STRUNK	08/12/2019

RECEIVING PARTY DATA

Name:	RED HAT, INC.
Street Address:	100 EAST DAVIE STREET
City:	RALEIGH
State/Country:	NORTH CAROLINA
Postal Code:	27601

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16544615

CORRESPONDENCE DATA

Fax Number: (973)597-6317

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.

9735972500 Phone:

Email: JJones@lowenstein.com

PATENT DOCKET ADMINISTRATOR **Correspondent Name:**

Address Line 1: LOWENSTEIN SANDLER LLP Address Line 2: ONE LOWENSTEIN DRIVE

Address Line 4: ROSELAND, NEW JERSEY 07068

ATTORNEY DOCKET NUMBER:	05220.2296 (L2296)
NAME OF SUBMITTER:	JOSEPH G. JONES
SIGNATURE:	/Joseph G. Jones/
DATE SIGNED:	08/23/2019

Total Attachments: 5

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> **PATENT REEL: 050159 FRAME: 0104** 505638419

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> PATENT REEL: 050159 FRAME: 0105

DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	PROOF-OF-WORK KEY WRAPPING WITH INDIVIDUAL KEY FRAGMENTS
This declaration and assignment is directed to:	☐ United States application or PCT international application number filed on
DECLARAT	ON
As a below	named inventor, I hereby declare that:
The above-	identified application was made or authorized to be made by me.
I believe tha	at I am the original inventor or an original joint inventor of a claimed invention in the application.
	knowledge that any willful false statement made in this declaration is punishable under 18 1 by fine or imprisonment of not more than five (5) years, or both.
ASSIGNME	INT
For good a	nd valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the
undersigne	d, hereby sell, assign, and transfer to <u>Red Hat, Inc.</u>
	corporation of Delaware
(Type of Assign	ee: e.g., corporation, company, partnership, university, etc.),
having a pr	incipal place of business at 100 East Davis Street, Raleigh, North Carolina, 27601.
the United I disclosed in and all providivisional a applications), and its successors, assigns, and legal representatives, the entire right, title, and interest for States and all foreign countries, in and to any and all inventions or improvements that are the above identified application and in and to said application (provisional or non-provisional) risional applications, non-provisional applications, utility applications, design applications, polications, continuation applications, continued prosecution applications, continuation-in-part is, substitute applications, renewal applications, reissue applications, reexaminations, and all other patent applications that have been or shall be filed in the United States
}	

Attorney Docket No. 05220.2296 (L2296)

Client Reference No. 20191140US

and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
LEGAL NAME OF INVENTOR  Inventor: Michael Hingston McLaughlin Bursell  Signature: Lidwell Synd	Date: <u> </u>
LEGAL NAME OF INVENTOR  Inventor: Nathaniel Philip McCallum  Signature:	Date:
LEGAL NAME OF INVENTOR  Inventor: Peter M. Jones	Date:
Signature:	

Attorney Docket No. 05220,2296 (L2296)

PATENT REEL: 050159 FRAME: 0107 and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

LEGAL NAME OF INVENTOR	
Inventor: Michael Hingston McLaughlin Bursell	Date:
Signature:	
LEGAL NAME OF INVENTOR	
Inventor: Nathaniel Philip McCallum	Date: 08/13/2019
Signature: W XDMML	
LEGAL NAME OF INVENTOR	
Inventor: Peter M. Jones	Date:
Signature:	

and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said application;

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covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

LEGAL NAME OF INVENTOR	
Inventor: Michael Hingston McLaughlin Bursell	Date:
Signature:	
LEGAL NAME OF INVENTOR	
Inventor: Nathaniel Philip McCallum	Date:
Signature:	
LEGAL NAME OF INVENTOR	~ 1 1
Inventor: Pets/M Jonss	Date: 3/14/19
Signature: MM Ja	!

Client Reference No. 20191140US

Attorney Docket No. 05220.2296 (L2296)

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Inventor: <u>John David Strunk</u>

Oste: <u>8/12/</u>19

Signature:

John Africa

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIAO1 form for each additional inventor.