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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	DATA				
		Name		Execution Date	
MIRCEA MARKUS				01/26/2015	
WILLIAM ROSENQUI	ST BURN	3		01/26/2015	
RECEIVING PARTY [ΟΑΤΑ				
Name: RED HAT, INC.					
Street Address:	100 E/	AST DAVIE STREET			
City:	RALEI	RALEIGH			
State/Country:	NORT	H CAROLINA			
Postal Code:	27601	27601			
Property TypeApplication Number:146		Number 14609329	Number 19329		
CORRESPONDENCE					
Fax Number:	DATA				
		o the e-mail address first; if th d; if that is unsuccessful, it w			
Email:	-	mkrueger@lowenstein.com			
		LOWENSTEIN SANDLER LLP			
Address Line 1: 65 LIVINGSTON AVENUE Address Line 4: ROSELAND, NEW JERSEY 07068					
Address Line 4:		NOSELAND, NEW JENSET U	000		
ATTORNEY DOCKET NUMBER:		05220-1889 (L1847US2	05220-1889 (L1847US2)		
NAME OF SUBMITTER	R:	DEVIN W. MILLER	DEVIN W. MILLER		
SIGNATURE:		/Devin W. Miller/	/Devin W. Miller/		
DATE SIGNED:		02/09/2017	02/09/2017		
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DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	FAULT TOLERANT LISTENER REGISTRATION IN THE PRESENCE OF NODE CRASHES IN A DATA GRID					
This declaration and assignment is directed to:	The attached application, or United States application or PCT international application number <u>14/609,329</u> filed on <u>January 29, 2015</u> .					
DECLARAT	ION					
As a below	named inventor, I hereby declare that:					
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 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.						
ASSIGNMENT						
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the undersigned, hereby sell, assign, and transfer to <u>Red Hat, Inc.</u>						
a	corporation of Delaware,					
(Type of Assigr	ee: e.g., corporation, company, partnership, university, etc.),					
having a principal place of business at <u>100 East Davie Street, Raleigh, North Carolina</u> 27601,						
the United disclosed ir and all prov divisional 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 in the above identified application and in and to said application (provisional or non-provisional) <i>visional applications</i> , non-provisional applications, utility applications, design applications, pplications, continued prosecution applications, continuation-in-part s, substitute applications, renewal applications, reissue applications, reexaminations, and all other patent applications that have been or shall be filed in the United States					

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 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	Λ
Inventor: Mircea Markus	Date: 01.26.2015
Signature:	
LEGAL NAME OF INVENTOR	
Inventor: William Rosenquist Burns	Date:
Signature:	

relasued 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, in said Assignee, its successors, assigns, and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and all patents on said inventions or improvements, in said inventions or improvements and all patents on said inventions or improvements, in said

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:Mircea Markus	Date:
Signature:	
LEGAL NAME OF INVENTOR	
Inventor: William Rosenquist Burns	Date: 1/24/15
Signature: William a. Rosenquist Burne	

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PATENT REEL: 041218 FRAME: 0028

RECORDED: 02/09/2017