## 504513570 08/22/2017

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGN	IMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	' DATA				
		Name			Execution Da
MICHAEL TSIRKIN					11/28/2016
HENRI VAN RIEL					11/29/2016
RECEIVING PARTY	DATA				
Name:	RED H	AT, INC.			
Street Address:	100 EA	ST DAVIE STREET			
City:	RALE	àH			
State/Country:	NORTI	CAROLINA			
Postal Code:	27601				
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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)

T.						
Title of Invention	BATCHED MEMORY PAGE HINTING					
This declaration and assignment is directed to:	The attached application, or   United States application or PCT international application number   filed on					
DECLARATIC	N					
As a below n	amed inventor, I hereby declare that:					
The above-ic	dentified 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.						
ASSIGNME	T					
For good and	d 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 <u>Delaware</u>					
(Type of Assignee	e: e.g., corporation, company, partnership, university, etc.),					
having a principal place of business at 100 East Davie Street, Raleigh, North Carolina 27601,						
the United St disclosed in 1 and all provis divisional app applications,	and its successors, assigns, and legal representatives, the entire right, title, and interest for tates 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) sional applications, non-provisional applications, utility applications, design applications, plications, continuation applications, continued prosecution applications, continuation-in-part substitute applications, renewal applications, reissue applications, reexaminations, and all other patent applications that have been or shall be filed in the United States					

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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, 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 Tsirkin	_Date: Nov28,2016
Signature:	
LEGAL NAME OF INVENTOR	
Inventor: <u>Henri Van Riel</u>	Date:
Signature:	
	n a Africa e la companya de la companya Norma Africa de Carta de la companya

PATENT REEL: 043354 FRAME: 0423 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, 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

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 Tsirkin	Date:
Signature:	
LEGAL NAME OF INVENTOR	
Inventor; Henri Van Riel	Date: <u>///2.9///6</u>
Signature: <u>RV</u>	đ.

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## **RECORDED: 08/22/2017**