

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	MICHAEL TSIRKIN	05/18/2018
RECEIVING PARTY DATA		
Name:	RED HAT, INC.	
Street Address:	100 EAST DAVIE STREET	
Internal Address:	18TH FLOOR	
City:	RALEIGH	
State/Country:	NORTH CAROLINA	
Postal Code:	27601	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15984961
CORRESPONDENCE DATA		
Fax Number:	(312)827-8000	
<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>		
Phone:	312-372-1121	
Email:	cipatents@klgates.com	
Correspondent Name:	K&L GATES LLP	
Address Line 1:	70 WEST MADISON STREET	
Address Line 2:	SUITE 3100	
Address Line 4:	CHICAGO, ILLINOIS 60602	
ATTORNEY DOCKET NUMBER:	0816028.00232/20181030	
NAME OF SUBMITTER:	NOLAN R. HUBBARD	
SIGNATURE:	/Nolan R. Hubbard/	
DATE SIGNED:	05/23/2018	
Total Attachments: 3		
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ASSIGNMENT

WHEREAS, the undersigned, to wit: Michael Tsirkin (hereinafter "ASSIGNORS"), are the lawful owners of an invention entitled **MEMORY CACHE PRESSURE REDUCTION FOR POINTER RINGS**;

AND WHEREAS, Red Hat, Inc. (hereinafter "ASSIGNEE"), a corporation duly organized and existing under the laws of Delaware and having its principal office and place of business at 100 East Davie Street, 18th Floor, Raleigh, NC, 27601, desires to acquire the entire right, title, and interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, said ASSIGNORS hereby sell, assign, and transfer to ASSIGNEE and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the above identified application and in and to said application (provisional or non-provisional) and 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 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;

ASSIGNORS hereby 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 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

ASSIGNORS furthermore 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.

ASSIGNORS hereby authorize insertion of the Serial Number and filing date of this application in the following space: Serial No. 15/984,961, Filing Date MAY 21, 2018.

Signature

Date Signed


Name: Michael Tsirlin

May 18, 2018

Address: c/o Red Hat, Inc.
100 East Davie Street
18th Floor
Raleigh, NC 27601