

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4284266

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	MICHAEL TSIRKIN	02/21/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	RED HAT, INC.	
<b>Street Address:</b>	100 EAST DAVIE STREET, 18TH FLOOR	
<b>City:</b>	RALEIGH	
<b>State/Country:</b>	NORTH CAROLINA	
<b>Postal Code:</b>	27601	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15438132
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(312)827-8285	
<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>	(312)372-1121	
<b>Email:</b>	chicago.patents@klgates.com	
<b>Correspondent Name:</b>	K&L GATES LLP	
<b>Address Line 1:</b>	P.O. BOX 1135	
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60690	
<b>ATTORNEY DOCKET NUMBER:</b>	0816028.00154/20161270	
<b>NAME OF SUBMITTER:</b>	NOLAN R. HUBBARD	
<b>SIGNATURE:</b>	/Nolan R. Hubbard/	
<b>DATE SIGNED:</b>	02/21/2017	
<b>Total Attachments: 3</b>		
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## ASSIGNMENT

WHEREAS, the undersigned, to wit: Michael Tsirkin (hereinafter "ASSIGNOR"), is the lawful owner of an invention entitled **PRELOADING ENHANCED APPLICATION STARTUP**;

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 ASSIGNOR hereby sells, assigns, and transfers 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;

ASSIGNOR hereby agrees 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

ASSIGNOR furthermore covenants 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.

ASSIGNOR hereby authorizes insertion of the Serial Number and filing date of this application in the following space: Serial No. 15/438,132, Filing Date February 21, 2017

Signature

Date Signed

Name: Michael Tsirkin

Feb 21, 2017

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