505780819 11/19/2019 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		Ν	IEW ASSIGNMENT		
NATURE OF CONVEYANCE:		A	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ				
		N	ame	Execution Date	
MICHAEL TSIRKIN				11/09/2019	
RECEIVING PARTY D	ΔΤΔ				
Name:		RED HAT, INC.			
Street Address:		100 EAST DAVIE STREET			
Internal Address:	18TH F	18TH FLOOR			
City:	RALEK	RALEIGH			
State/Country:	NORTH	NORTH CAROLINA			
Postal Code:	27601	27601			
PROPERTY NUMBERS Total: 1 Property Type			Number		
		166853			
	I				
CORRESPONDENCE	DATA				
•		(312)82			
Correspondence will I	pe sent to	o the e-l	mail address first; if that is unsu	Iccesstul. It will be sent	
using a tax number, it	providec	d; if that	t is unsuccessful, it will be sent	via US Mail.	
-	-	d; if tha 312-37	t is unsuccessful, it will be sent	via US Mail.	
Phone: Email:	-	312-37 cipaten	t is unsuccessful, it will be sent 2-1121 ts@klgates.com	via US Mail.	
Phone: Email: Correspondent Name:		312-37 cipaten K&L G/	<i>t is unsuccessful, it will be sent</i> 2-1121 ts@klgates.com ATES LLP	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1:	1	312-372 cipaten K&L G/ 70 WES	t is unsuccessful, it will be sent 2-1121 ts@klgates.com ATES LLP ST MADISON STREET	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	:	312-372 cipaten K&L GA 70 WES SUITE	<i>t is unsuccessful, it will be sent</i> 2-1121 ts@klgates.com ATES LLP ST MADISON STREET 3100	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1:	:	312-372 cipaten K&L GA 70 WES SUITE	t is unsuccessful, it will be sent 2-1121 ts@klgates.com ATES LLP ST MADISON STREET	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:		312-372 cipaten K&L GA 70 WES SUITE CHICA	<i>t is unsuccessful, it will be sent</i> 2-1121 ts@klgates.com ATES LLP ST MADISON STREET 3100	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	UMBER:	312-372 cipaten K&L GA 70 WES SUITE CHICAG	<i>t is unsuccessful, it will be sent</i> 2-1121 ts@klgates.com ATES LLP ST MADISON STREET 3100 GO, ILLINOIS 60602	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER	UMBER:	312-372 cipaten K&L GA 70 WES SUITE CHICAG 0 N	<i>t is unsuccessful, it will be sent</i> 2-1121 ts@klgates.com ATES LLP ST MADISON STREET 3100 GO, ILLINOIS 60602	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	UMBER:	312-372 cipaten K&L GA 70 WES SUITE CHICAG 0 N /I	<i>t is unsuccessful, it will be sent</i> 2-1121 ts@klgates.com ATES LLP ST MADISON STREET 3100 GO, ILLINOIS 60602 1816028.00308/20191241 IOLAN R. HUBBARD	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: SIGNATURE:	UMBER:	312-372 cipaten K&L GA 70 WES SUITE CHICAG 0 N /I	<i>t is unsuccessful, it will be sent</i> 2-1121 ts@klgates.com ATES LLP ST MADISON STREET 3100 GO, ILLINOIS 60602 9816028.00308/20191241 JOLAN R. HUBBARD Nolan R. Hubbard/	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: SIGNATURE: DATE SIGNED: Fotal Attachments: 3	UMBER:	312-372 cipaten K&L GA 70 WES SUITE CHICAG 0 N /I 1	<i>t is unsuccessful, it will be sent</i> 2-1121 ts@klgates.com ATES LLP ST MADISON STREET 3100 GO, ILLINOIS 60602 9816028.00308/20191241 JOLAN R. HUBBARD Nolan R. Hubbard/	via US Mail.	
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: DATE SIGNED: Total Attachments: 3 source=RH308 Executed source=RH308 Executed	UMBER:	312-372 cipaten K&L GA 70 WES SUITE CHICAG 0 0 1 1 nent_US nent_US	t is unsuccessful, it will be sent 2-1121 ts@klgates.com ATES LLP ST MADISON STREET 3100 GO, ILLINOIS 60602 816028.00308/20191241 NOLAN R. HUBBARD Nolan R. HUBBARD Nolan R. Hubbard/ 1/19/2019	<i>via US Mail.</i> I.tif 2.tif	

ASSIGNMENT

WHEREAS, the undersigned, to wit: Michael Tsirkin (hereinafter "ASSIGNOR"), is the lawful owner of an invention entitled **REMOTE DIRECT MEMORY ACCESS BASED NETWORKING GATEWAY;**

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

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, 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.

PATENT REEL: 051049 FRAME: 0981 ASSIGNOR hereby authorizes insertion of the Serial Number and filing date of this application in the following space: Serial No. 16/685,310, Filing Date November 15, 2019.

<u>Signature</u>	
	MA
Name: M	ichael Tsirkin
Address:	c/o Red Hat, Inc.
	100 East Davie Street
	18th Floor
	Raleigh, NC 27601

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Date Signed Nov9,2019