

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6949213

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GAL HAMMER	09/07/2021
MARCEL APFELBAUM	09/07/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	RED HAT, INC.
<b>Street Address:</b>	100 EAST DAVIE STREET
<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>
<b>Application Number:</b>	17475229
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(404)888-7490
<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>	404-872-7000
<b>Email:</b>	IPDocketing@wbd-us.com, aaron.dunn@wbd-us.com, connie.thayer@wbd-us.com
<b>Correspondent Name:</b>	WOMBLE BOND DICKINSON (US) LLP
<b>Address Line 1:</b>	P.O. BOX 7037
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30357-0037
<b>ATTORNEY DOCKET NUMBER:</b>	R102345 2560US.1
<b>NAME OF SUBMITTER:</b>	ABHIJIT ADISESH
<b>SIGNATURE:</b>	/Abhijit Adisesh/
<b>DATE SIGNED:</b>	10/01/2021
<b>Total Attachments: 4</b>	
source=R102345_2560US1_executed_Assignment#page1.tif	
source=R102345_2560US1_executed_Assignment#page2.tif	
source=R102345_2560US1_executed_Assignment#page3.tif	
source=R102345_2560US1_executed_Assignment#page4.tif	

**DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	<b>HARDWARE OFFLOADING FOR AN EMULATED IOMMU DEVICE</b>
This declaration and assignment is directed to:	<input checked="" type="checkbox"/> The attached application, or  <input type="checkbox"/> United States application or PCT international application number _____ filed on _____
<b>DECLARATION</b>	
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.	
<b>ASSIGNMENT</b>	
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 <u>corporation</u> of <u>Delaware</u>	
<small>(Type of Assignee. e.g., corporation, company, partnership, university, etc.)</small>	
having a principal place of business at <u>100 East Davie Street, Raleigh, North Carolina 27601</u>	
("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;

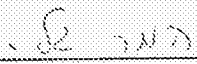
agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and 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 applications for patents 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

Inventor: Gal Hammer

Date: 3/9/2021

Signature: 

LEGAL NAME OF INVENTOR

Inventor: Marcel Apfelbaum

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	<b>HARDWARE OFFLOADING FOR AN EMULATED IOMMU DEVICE</b>
This declaration and assignment is directed to:	<input checked="" type="checkbox"/> The attached application, or  <input type="checkbox"/> United States application or PCT international application number _____ filed on _____
<b>DECLARATION</b>	
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.	
<b>ASSIGNMENT</b>	
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 <u>corporation</u> of <u>Delaware</u>	
<small>(Type of Assignee. e.g., corporation, company, partnership, university, etc.)</small>	
having a principal place of business at <u>100 East Davie Street, Raleigh, North Carolina 27601</u>	
("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;

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 applications for patents 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

Inventor: Gai Hammer Date: \_\_\_\_\_

Signature: \_\_\_\_\_

LEGAL NAME OF INVENTOR

Inventor: Marcel Apfelbaum Date: 07/09/2021

Signature:  \_\_\_\_\_