504015968 09/21/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4062626

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MICHAEL TSIRKIN	08/30/2016
URI LUBLIN	08/30/2016

#### **RECEIVING PARTY DATA**

Name:	RED HAT ISRAEL, LTD.
Street Address:	34 JERUSALEM ROAD
City:	RA'ANANA
State/Country:	ISRAEL
Postal Code:	43501

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15251943

#### **CORRESPONDENCE DATA**

**Fax Number:** (214)200-0853

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.

**Phone:** 5128678433

Email: paula.cunningham@haynesboone.com
Correspondent Name: HAYNES AND BOONE, LLP (50833)

Address Line 1: ATTN. IP DOCKETING

Address Line 2: 2323 VICTORY AVENUE, SUITE 700

Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER:	: 50833.75T1 (20161074US)	
NAME OF SUBMITTER:	PAULA S. CUNNINGHAM	
SIGNATURE:	/Paula S. Cunningham/	
DATE SIGNED:	09/21/2016	

#### **Total Attachments: 4**

source=ExecutedAssignment\_for\_Michael\_Tsirkin\_and\_Uri\_Lublin#page1.tif source=ExecutedAssignment\_for\_Michael\_Tsirkin\_and\_Uri\_Lublin#page2.tif source=ExecutedAssignment\_for\_Michael\_Tsirkin\_and\_Uri\_Lublin#page3.tif source=ExecutedAssignment\_for\_Michael\_Tsirkin\_and\_Uri\_Lublin#page4.tif

PATENT 504015968 REEL: 039819 FRAME: 0740

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

Title of Invention	MEMORY DEDUPLICATION BASED ON GUEST PAGE HINTS
This application	☑ The attached , or declaration
and assignmen is directed	☐ United States application or PCT international application numbert  t filed ont  to:
DECLARAT	TON
As a below	named inventor, I hereby declare that:
The above	identified application was made or authorized to be made by me.
I believe th	at I am the original inventor or an original joint inventor of a claimed invention in the application.
hereby ack U.S.C. 100	nowledge that any willful false statement made in this declaration is punishable under 18 1 by fine or imprisonment of not more than five (5) years, or both.
ASSIGNM	ENT
i	nd valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the
undersigne	d, hereby sell, assign, and transfer to Red Hat Israel, Ltd.
,	corporation of Israel ,
	ee: e.g., corporation, company, partnership, university, etc.)
having a pr	incipal place of business at <u>34 Jerusalem Road, Ra'anana, Israel 43501</u> ,
the above i provisional applications substitute a	(), and its successors, assigns, and legal representatives, the entire right, title, and interest for the es and all foreign countries, in and to any and all inventions or improvements that are disclosed in dentified application and in and to said application (provisional or non-provisional) and all applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continuation applications, continuation applications, continued prosecution applications, continuation-in-part applications, pplications, renewal applications, reissue applications, reexaminations, extensions, and all other ications that have been or shall be filed in the United States

Attorney Docket No. 50833.75T1 (20161074US) 1

PATENT REEL: 039819 FRAME: 0741 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 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		1 20 0.11
Inventor: <u>Michael Tsirkin</u>	——————————————————————————————————————	Date: Aug 30,2016
Signature:	14	
	and the second second	
LEGAL NAME OF INVENTOR		
Inventor: <u>Uri Lublin</u>		Date:
<b>8</b>		
Signature:		

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.

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

Title of Invention	MEMORY DEDUPLICATION BASED ON GUEST PAGE HINTS
This application	☑ The attached , or declaration
and assignmen is directed	
DECLARA1	TION
As a below	named inventor, I hereby declare that:
The above	-identified application was made or authorized to be made by me.
I believe th	nat I am the original inventor or an original joint inventor of a claimed invention in the application. I
hereby acl U.S.C. 100	knowledge that any willful false statement made in this declaration is punishable under 18 D1 by fine or imprisonment of not more than five (5) years, or both.
ASSIGNM	ENT
For good a	and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the
undersigne	ed, hereby sell, assign, and transfer to Red Hat Israel, Ltd.
	corporation of Israel , nee: e.g., corporation, company, partnership, university, etc.)
having a p	rincipal place of business at <u>34 Jerusalem Road, Ra'anana, Israel 43501</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	

Attorney Docket No. 50833.75T1 (20161074US)

**PATENT REEL: 039819 FRAME: 0743** 

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 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: Michael Tsirkin	Date:
Signature:	Date:
LEGAL NAME OF INVENTOR	1
Inventor: <u>Uri Lublin</u>	Date: 4 4 30 90/6
Signature: AH	V

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.

Attorney Docket No. 50833.75T1 (20161074US)

RECORDED: 09/21/2016

PATENT

REEL: 039819 FRAME: 0744