504495346 08/09/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4542049

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| JINDRICH LUZA | 08/08/2017 |
| TIM WAUGH | 08/03/2017 |

RECEIVING PARTY DATA

| Name: | RED HAT, INC. | |
|-----------------|-----------------------|--|
| Street Address: | 100 EAST DAVIE STREET | |
| City: | RALEIGH | |
| State/Country: | NORTH CAROLINA | |
| Postal Code: | 27601 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15672011 |

CORRESPONDENCE DATA

Fax Number: (973)597-6159

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: 973-597-2500

Email: cbrabham@lowenstein.com
 Correspondent Name: CICERO H. BRABHAM, JR.
 Address Line 1: ONE LOWENSTEIN DRIVE
 Address Line 2: LOWENSTEIN SANDLER LLP
 Address Line 4: ROSELAND, NEW JERSEY 07068

| ATTORNEY DOCKET NUMBER: | 05220.2101 (L2101) | |
|-------------------------|--------------------------|--|
| NAME OF SUBMITTER: | CICERO H. BRABHAM, JR. | |
| SIGNATURE: | /Cicero H. Brabham, Jr./ | |
| DATE SIGNED: | 08/09/2017 | |

Total Attachments: 3

source=05220_2101_L2101_Assignment#page1.tif source=05220_2101_L2101_Assignment#page2.tif source=05220_2101_L2101_Assignment#page3.tif

PATENT 504495346 REEL: 043240 FRAME: 0436

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

| Title of Invention | SUPPORTING MANIFEST LIST FOR MULTI-PLATFORM APPLICATION CONTAINER IMAGES | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--|
| This declaration and assignments directed to: | United States application or PCT international application number | |
| DECLARA | TION | |
| As a belov | v named inventor, I hereby declare that: | |
| The abov | e-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. | | |
| ASSIGNMENT | | |
| For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the undersigned, hereby self, assign, and transfer to — Red Hat, Inc. | | |
| | corporation of Delaware | |
| 1 | ignee: e.g., corporation, company, partnership, university, etc.) | |
| having a principal place of business at100 East Davie Street, Raleigh, North Carolina 27601, | | |
| ("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 | | |
| *************************************** | | |

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Any Docket No. 05220.2101 (L2101)

Client Reference No. 20171029US

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: Jindrich Luza | Date: <u>08.08.2.047</u> |
| Signature: | |
| LEGAL NAME OF INVENTOR | |
| Inventor: Tim Waugh | Date: |
| Signature: | |
| LEGAL NAME OF INVENTOR | |
| Inventor: | Date (|
| Signature: | |
| Note: An application data sheet (PTO/SB/14 or equivalent), including naming the Use an additional PTO/SB/AIA01 form for each additional inventor. | entire inventive entity, must accompany this form. |

Client Reference No. 20171029US

Atty Docket No. 05220.2101 (L2101)

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: Jindrich Luza Signature: | Date: |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| LEGAL NAME OF INVENTOR Inventor: Tim Waugh Signature: MWomon. | Date: 3 August 2017 |
| LEGAL NAME OF INVENTOR Inventor: Signature: | Date: |
| Note: An application data sheet (PTO/SE/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor. | |

Client Reference No. 20171029US

RECORDED: 08/09/2017

Atty Docket No. 05220.2101 (L2101)