

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3691290

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| INTERNATIONAL BUSINESS MACHINES CORPORATION | 12/30/2015 |
| 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: 3 | |
| Property Type | Number |
| Patent Number: | 6182075 |
| Patent Number: | 6496828 |
| Patent Number: | 6879989 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
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| Correspondent Name: | RED HAT, INC. |
| Address Line 1: | 100 EAST DAVIE STREET |
| Address Line 4: | RALEIGH, NORTH CAROLINA 27601 |
| ATTORNEY DOCKET NUMBER: | 11110028US; -29US; -30US |
| NAME OF SUBMITTER: | ERIN A. CAMPION |
| SIGNATURE: | /Erin A. Campion/ |
| DATE SIGNED: | 01/12/2016 |
| Total Attachments: 4 | |
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| source=IBM Assignment#page2.tif | |
| source=IBM Assignment#page3.tif | |
| source=IBM Assignment#page4.tif | |

Recordable Patent Assignment and Reservation

For good and valuable consideration, the receipt of which is hereby acknowledged, and subject to the reservations stated in the Patent Assignment Agreement Reference No. L159472 between the parties with an effective time and date of 11:59pm United States Eastern Time on December 30, 2015 ("Effective Time and Date") ("Patent Assignment Agreement"), International Business Machines Corporation, a New York corporation having a place of business at Armonk, New York (hereinafter "ASSIGNOR"), hereby grants and assigns to Red Hat, Inc., a Delaware corporation having a place of business at 100 East Davie Street, Raleigh, NC, 27601 (hereinafter "ASSIGNEE"), all of IBM's right, title and interest in and to the patents and patent applications identified in Exhibits A, B, and C, attached hereto, (hereinafter, collectively, "ASSIGNED PATENTS"), to have and to hold the same, unto ASSIGNEE for its own use and enjoyment and for the use and enjoyment of its successors and assigns, including all damages for infringement of any of the Assigned Patents accruing before, on and after the Effective Time & Date and the sole right to sue therefore under such Assigned Patents, for the full term or terms of all such ASSIGNED PATENTS, subject to all rights granted under the ASSIGNED PATENTS to third parties prior to said Effective Time & Date.

ASSIGNOR hereby reserves and retains, for the benefit of itself and its subsidiaries and its and their successors and assigns, the rights and licenses set forth in the Patent Assignment Agreement.

IN WITNESS WHEREOF, ASSIGNOR has caused this Patent Assignment and Reservation to be duly signed on its behalf.

Signature: Lisa M. Regan Date: 12/30/15

Name: Lisa M. Regan
Title: Director of Finance, Research & Intellectual Property

State of New York)
) S.S.
County of Westchester)

Before me this 30th day of December, 2015, personally appeared Lisa M. Regan, to me known to be the person who is described in and who signed the foregoing Assignment and acknowledged to me that he/she signed the same of his/her own free will for the purpose therein expressed.

Raouf R. Gregory Notary Public

NOTARY PUBLIC-STATE OF NEW YORK
NO. 01GR6334082
QUALIFIED IN WESTCHESTER COUNTY
MY COMMISSION EXPIRES 12-07-2019

IN WITNESS WHEREOF, ASSIGNEE has caused this Patent Assignment and Reservation to be duly signed on its behalf, and hereby accepts such Patent Assignment and Reservation.

Signature: Robert H. Tiller Date: Jan. 7, 2016

Name: Robert H. Tiller
Title: Vice President and Assistant General Counsel

State of North Carolina)
) S.S.
County of Wake)

Before me this 7th day of January, 2016, personally appeared Robert H. Tiller, to me known to be the person who is described in and who signed the foregoing Assignment and acknowledged to me that he/she signed the same of his/her own free will for the purpose therein expressed.

Amy M. Malouf Notary Public

AMY M MALOUF
Notary Public, North Carolina
Wake County
My Commission Expires
August 17, 2019

EXHIBIT A

LISTED PATENTS (United States)

| IBM Docket Number | Country | Patent Number | Application Number | Filing Date | Issue Date |
|-------------------|---------|---------------|--------------------|-------------|------------|
| CA919970042US1 | US | 6182075 | 09/061512 | 4/16/1998 | 1/30/2001 |
| STL919990028US1 | US | 6496828 | 09/466862 | 12/17/1999 | 12/17/2002 |
| STL919990113US1 | US | 6879989 | 09/375260 | 8/16/1999 | 4/12/2005 |

END OF EXHIBIT A

EXHIBIT B

LISTED PATENTS (Non-US Patents)

None.

END OF EXHIBIT B

EXHIBIT C

ASSIGNED PATENT APPLICATIONS

US Assigned Patent Applications

None.

Non - US Assigned Patent Applications

None.

END OF EXHIBIT C