

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Binqiang Ma</td> <td>08/22/2013</td> </tr> <tr> <td>Xiaoyi Feng</td> <td>08/22/2013</td> </tr> <tr> <td>Huijun Wu</td> <td>08/22/2013</td> </tr> <tr> <td>Jingang Peng</td> <td>08/22/2013</td> </tr> <tr> <td>Xuguo Liu</td> <td>08/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	Binqiang Ma	08/22/2013	Xiaoyi Feng	08/22/2013	Huijun Wu	08/22/2013	Jingang Peng	08/22/2013	Xuguo Liu	08/22/2013
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Lenovo (Beijing) Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>No.6 Shang Di West Road</td> </tr> <tr> <td>City:</td> <td>Haidian District, Beijing</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> <tr> <td>Postal Code:</td> <td>100085</td> </tr> </table>		Name:	Lenovo (Beijing) Co., Ltd.	Street Address:	No.6 Shang Di West Road	City:	Haidian District, Beijing	State/Country:	CHINA	Postal Code:	100085		
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number:	3123214299												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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ATTORNEY DOCKET NUMBER:	14539/89 (C12W2340/01US)
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NAME OF SUBMITTER:	G. Peter Nichols
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Signature:	/G. Peter Nichols/
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Date:	09/19/2013
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Total Attachments: 4  
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**RECORDATION FORM COVER SHEET - PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below:

**1. Name of conveying Party(ies):**Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Binqiang Ma  
Xiaoyi Feng  
Huijun Wu  
Jingang Peng  
Xuguo Liu

**2. Name and Address of receiving Party(ies):**Name: **LENOVO (BEIJING) CO., LTD.**Street Address: No.6 Shang Di West Road  
Haidian District

City: Beijing 100085

Country: China

Name: **BEIJING LENOVO SOFTWARE LTD.**Street Address: 4<sup>th</sup> Floor, #6 Chuangye Road,  
Shangdi Information Industry Base,  
Haidian District

City: Beijing 100085

Country: China

**3. Nature of Conveyance/Execution Date(s):**

Execution Date(s):

Binqiang Ma: August 22, 2013

Xiaoyi Feng: August 22, 2013

Huijun Wu: August 22, 2013

Jingang Peng: August 22, 2013

Xuguo Liu: August 22, 2013

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other: \_\_\_\_\_

Additional name(s) and addresses attached? ☐ Yes ☒ No**4. Application or Patent Number(s).**☐ This document is being filed together with a new application.

A. Patent Application No.(s):

14/006,184 filed September 19, 2013

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No**5. Name and address of party to whom correspondence concerning document should be mailed:**

BRINKS HOFER GILSON & LIONE  
PO BOX 10395  
CHICAGO, IL 60610  
Phone: (312) 321-4200  
Fax: (312) 321-4299

**6. Total no. of applications & patents involved: 1****7. Total Fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorize charge by credit card  
☒ Authorize charge to Deposit Account No. 23-1925  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information:**

- a. ☐ Credit Card: Last 4 Numbers  
Expiration Date  
b. ☒ Charge fee and/or any Deficiencies to Deposit  
Account Number 23-1925  
Authorized User Name: Brinks Hofer Gilson & Lione

**9. Signature:**

/G. Peter Nichols/

Signature

G. Peter Nichols

Name of Person Signing

September 19, 2013

Date

Total no. of pages including coversheet,  
attachments and documents: 4

**ASSIGNMENT**

WHEREAS, Bingqiang MA, Xiaoyi FENG, Huijun Wu, Jingang PENG and Xuguo LIU hereinafter called the "Assignors", have made the invention entitled COMPUTER STARTUP METHOD, STARTUP APPARATUS, STARTUP TRANSITION METHOD, AND STATE TRANSITION APPARATUS, for a full description of which reference is here made to PCT Application Number PCT/CN2012/072531 filed on 19 March 2012 and to the United States patent application executed by the Assignors on the same date as, or on a date prior to, this Assignment;

WHEREAS, Lenovo (Beijing) Co., Ltd., a corporation organized and existing under the laws of China, having a place of business at No.6 Shang Di West Road, Haidian District, Beijing 100085, China; And Beijing Lenovo Software Ltd., a corporation organized and existing under the laws of China, having a place of business at 4<sup>th</sup> Floor, #6 Chuangye Road, Shangdi Information Industry Base, Haidian District, Beijing 100085, China hereinafter called the "Assignees", desire to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignees is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignees, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and

exclusive use and benefit of the Assignees, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignees in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignees may elect to make covering the invention identified above; in vesting in the Assignees like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignees any and all additional papers which may be requested by the Assignees to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignees in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE:	<u>2013.8.22</u>	<u>Bingqiang MA</u> Bingqiang MA
WITNESSED:		
DATE:	<u>2013.8.22</u>	<u>Dongjun Guo</u>
DATE:	<u>2013.8.22</u>	<u>Yan He</u>
DATE:	<u>2013.8.22</u>	<u>Xiaoyi Feng</u> Xiaoyi FENG
WITNESSED:		
DATE:	<u>2013.8.22</u>	<u>Dongjun Guo</u>
DATE:	<u>2013.8.22</u>	<u>Yan He</u>
DATE:	<u>2013.8.22</u>	<u>Huijun WU</u> Huijun WU
WITNESSED:		
DATE:	<u>2013.8.22</u>	<u>Dongjun Guo</u>
DATE:	<u>2013.8.22</u>	<u>Yan He</u>

DATE:	<u>2013.08.22.</u>	<u>Jingang Peng</u> Jingang PENG
WITNESSED:		
DATE:	<u>2013.8.22.</u>	<u>Dongjun Guo.</u>
DATE:	<u>2013.8.22.</u>	<u>Yan He</u>
DATE:	<u>2013/8/22</u>	<u>Xuguo Liu</u> Xuguo LIU
WITNESSED:		
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DATE:	<u>2013.8.22.</u>	<u>Yan He</u>