

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Kai-feng WANG</td> <td>11/09/2009</td> </tr> <tr> <td>Hong-xia SUN</td> <td>11/09/2009</td> </tr> <tr> <td>Peng-fei ZHU</td> <td>11/09/2009</td> </tr> <tr> <td>Yong-qiang WU</td> <td>11/09/2009</td> </tr> </tbody> </table>		Name	Execution Date	Kai-feng WANG	11/09/2009	Hong-xia SUN	11/09/2009	Peng-fei ZHU	11/09/2009	Yong-qiang WU	11/09/2009		
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<table border="1"> <tr> <td>Name:</td> <td>STMICROELECTRONICS (BEIJING) R&D CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>12B/F, Yingu Building, No. 9 Northwest Fourth Ring Road</td> </tr> <tr> <td>Internal Address:</td> <td>Haidian District</td> </tr> <tr> <td>City:</td> <td>Beijing</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> <tr> <td>Postal Code:</td> <td>100080</td> </tr> </table>		Name:	STMICROELECTRONICS (BEIJING) R&D CO., LTD.	Street Address:	12B/F, Yingu Building, No. 9 Northwest Fourth Ring Road	Internal Address:	Haidian District	City:	Beijing	State/Country:	CHINA	Postal Code:	100080
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CORRESPONDENCE DATA													
<p>Fax Number: 4254551046 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 425-455-5575 Email: pkuvac@graybeal.com Correspondent Name: Graybeal Jackson LLP Address Line 1: 400 - 108th Avenue N.E., Suite 700 Address Line 4: Bellevue, WASHINGTON 98004</p>													
ATTORNEY DOCKET NUMBER:	2740-003-03 (08-BJ-022)												
NAME OF SUBMITTER:	Kevin D. Jablonski												
Signature:	/Kevin D Jablonski/												

OP \$40.00 12631098

Date:

06/21/2013

Total Attachments: 6

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ASSIGNMENT OF U.S. AND FOREIGN RIGHTS IN INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of good and valuable consideration the adequacy and receipt of which are hereby acknowledged,

ASSIGNOR **Kai-Feng WANG** residing or having a principal place of business at Rm. 08, 12B/F, Yingu Building, No. 9 Northwest Fourth Ring Road, Haidian District, Beijing 100080, P.R. China, and a citizen or juristic entity of China,

ASSIGNOR **Hong-Xia SUN** residing or having a principal place of business at 12B/F, Yingu Building, No. 9 Northwest Fourth Ring Road, Haidian District, Beijing, 100080, P.R. China, and a citizen or juristic entity of China,

ASSIGNOR **Peng-fei ZHU** residing or having a principal place of business at 12B/F, Yingu Building, No. 9 Northwest Fourth Ring Road, Haidian District, Beijing, 100080, P.R. China, and a citizen or juristic entity of China,

ASSIGNOR **Yong-qiang WU** residing or having a principal place of business at 12B/F, Yingu Building, No. 9 Northwest Fourth Ring Road, Haidian District, Beijing, 100080, P.R. China, and a citizen or juristic entity of China,

hereby sells, assigns, and transfers to:

ASSIGNEE STMicroelectronics R&D (Beijing) Co. Ltd, residing or having a principal place of business at 12B/F, Yin Gu Building No. 9 Northwest the Fourth Ring Road, Hai Dian District, Beijing 100080 P.R. China and a citizen or juristic entity of China, and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest in the United States and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled **REDUCING INSTRUCTION COLLISIONS IN A PROCESSOR** and which is found in United States patent application serial number 12/631,098, filed on December 4, 2009 (if not present when this instrument is executed, applicant's attorney or agent is authorized to enter the application serial number and filing date upon receipt of the same from the United States Patent and Trademark Office), and in and to all Letters Patent to be obtained from said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to Letters Patent from any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts, documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will

testify as to the same in any interference, litigation, or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue, and enforce said application, said invention, and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof.

ASSIGNOR:

Name: Kai-feng WANG

Signature: Kai feng WANG

Title (if applicable): Senior Design Engineer

EXECUTED ON, and effective from this 10th day of November, 2009 at Beijing of China

I hereby declare that I was personally present and did see the ASSIGNOR, who is personally known to me to be a person named in the assignment, duly sign and execute the same on this 10th day of Nov, 2009 of his own free will for the purpose therein expressed at the following location: _____

Beijing of China

WITNESS

Name: Tin Yu

Signature: Tin Yu

ASSIGNOR:

Name: Hong-xia SUN

Signature: Hongxia SUN

Title (if applicable): Senior Design Engineer

EXECUTED ON, and effective from this 9th day of November, 2009 at Beijing of China

I hereby declare that I was personally present and did see the ASSIGNOR, who is personally known to me to be a person named in the assignment, duly sign and execute the same on this 10th day of Nov, 2009 of her own free will for the purpose therein expressed at the following location: _____

Beijing of China

WITNESS

Name: Yin Yu

Signature: Yin Yu

ASSIGNOR:

Name: Peng-fei ZHU

Signature: Pengfei ZHU

Title (if applicable): Sen Application Engr.

EXECUTED ON, and effective from this ninth day of November, 2009 at Beijing of China

I hereby declare that I was personally present and did see the ASSIGNOR, who is personally known to me to be a person named in the assignment, duly sign and execute the same on this 10th day of Nov, 2009 of her own free will for the purpose therein expressed at the following location: _____

Beijing of China

WITNESS

Name: Tin YU

Signature: Tin YU

ASSIGNOR:

Name: Yong-qiang WU

Signature: Yongqiang WU

Title (if applicable): R & D leader

EXECUTED ON, and effective from this ninth day of November, 2009 at Beijing, China

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Beijing of China

WITNESS

Name: Yin YU

Signature: Yin YU