

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Hynix Semiconductor Inc. | 01/17/2012 |
| RECEIVING PARTY DATA | |
| Name: | Hynix Semiconductor Inc. |
| Street Address: | San 136-1, Ami-ri, Bubal-eup, Icheon-si |
| City: | Gyeonggi-do |
| State/Country: | REPUBLIC OF KOREA |
| Name: | Grandis, Inc. |
| Street Address: | 1123 Cadillac Court |
| City: | Milpitas |
| State/Country: | CALIFORNIA |
| Postal Code: | 95035 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13315011 |
| CORRESPONDENCE DATA | |
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| Correspondent Name: | IP & T GROUP LLP |
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| Address Line 4: | Annandale, VIRGINIA 22003 |
| ATTORNEY DOCKET NUMBER: | POA01259US |
| NAME OF SUBMITTER: | Myung Soo Kim |
| Total Attachments: 1 source=POA01259US-Assignment#page1.tif | |

OP \$40.00 13315011

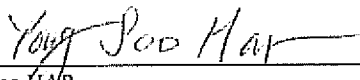
JOINT OWNERSHIP AGREEMENT

WHEREAS Hynix Semiconductor Inc., a corporation of the Republic of Korea with an office at Snn 136-1, Ami-ri, Bubal-eup, Icheon-si, Gyeonggi-do, Republic of Korea (hereinafter referred to as "Assignor"), and Grandis Inc., a corporation of the state of California, U.S., having an office at 1123 Cadillac Court, Milpitas, CA 95035, U.S.A. (hereinafter referred to as "Assignee") would like to enter into an agreement (hereinafter referred as the "Agreement"), and

WHEREAS the Agreement is directed to a joint and equal ownership (50/50) of the following three patents that, prior to this Agreement, were previously owned by the Assignor solely: U.S. Patent Application No. 13/315,011 filed on December 8, 2011 (hereinafter referred together as the "Jointly Owned Patents"),

NOW THEREFORE, be it known that for good and valuable consideration given by the Assignee, the receipt of which is hereby acknowledged by the Assignor, Assignor has sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto Assignor, its lawful successors and assigns fifty percent (50%) interest in Assignor's entire right, title, and interest in and to the Jointly Owned Patents and agrees to jointly and equally (50/50) own the Jointly Owned Patents. The Assignor and Assignee agree to share all expenses to maintain the Jointly Owned Patents in force and enforce the Jointly Owned Patents against actual or potential infringers. If either PARTY becomes aware of potential infringement of any PATENT RIGHTS, then that PARTY will notify the other PARTY as soon as possible and the PARTIES agree to discuss and determine how best to end such infringement. If the PARTIES agree to begin an action for patent infringement, then they agree that the reasonable expenses and disbursements paid in connection with such action will be considered PATENT EXPENSES and all monies actually received as a result of the patent infringement action will be considered LICENSE REVENUE. If the PARTIES cannot agree to begin such an action, then either PARTY will have the right to prosecute the patent infringement action, and that PARTY will bear all the expense and be entitled to retain all monies received from such action.

Date: Jan 17, 2012



Yong-Soo HARR
Head of Patent Development Team
Hynix Semiconductor Inc.

Wilmer Cutler & Pickering