

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>Eun-Sung Jung</td> <td>12/21/2012</td> </tr> <tr> <td>Bon-Cheol Gu</td> <td>12/21/2012</td> </tr> <tr> <td>Kyung-Ah Chang</td> <td>12/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Eun-Sung Jung	12/21/2012	Bon-Cheol Gu	12/21/2012	Kyung-Ah Chang	12/21/2012
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Eun-Sung Jung	12/21/2012								
Bon-Cheol Gu	12/21/2012								
Kyung-Ah Chang	12/21/2012								
RECEIVING PARTY DATA									
Name:	Samsung Electronics Co., Ltd.								
Street Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742								
City:	Suwon-si								
State/Country:	KOREA, REPUBLIC OF								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13733627</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13733627				
Property Type	Number								
Application Number:	13733627								
CORRESPONDENCE DATA									
Fax Number:	2023153758								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	011053.0021								
NAME OF SUBMITTER:	Randall S. Svihla								
Total Attachments: 2 source=NewApp_0110530021_AssignmentExecutedWithAppNumber#page1.tif source=NewApp_0110530021_AssignmentExecutedWithAppNumber#page2.tif									

CH \$40.00 13733627

ASSIGNMENT

For valuable consideration, we,

Eun-Sung JUNG 626-202 Hyojachon Lucky Apt., Seohyeon-dong,
Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of
Korea

Bon-Cheol GU B02ho, Songhak Villa, 455beonji, Yangji-dong,
Sujeong-gu, Seongnam-si, Gyeonggi-do, Republic of
Korea

Kyung-Ah CHANG 4Fl., 188beonji, Samseon-dong 1-ga, Seongbuk-gu,
Seoul, Republic of Korea

hereby assign to:

Samsung Electronics Co., Ltd., a Republic of Korea corporation
having principal executive offices or a place of business at 129,
Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742,
Republic of Korea

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements that are the subject of U.S. Patent Application Number 13/733,627 filed on January 3, 2013 in the U.S. Patent & Trademark Office, signed by us and entitled:

**HIERARCHICAL SCHEDULING APPARATUS AND
METHOD FOR CLOUD COMPUTING**

We authorize and request the attorneys appointed in said application to hereafter complete this Assignment by inserting above the application number and filing date of said application when known, and to correct any typographical error that may be discovered in this Assignment; this Assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, Assignments, preliminary statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

011053.0021

IN TESTIMONY/WITNESS WHEREOF, we, the undersigned inventors (Assignors),
intending to be legally bound, have hereto affixed our signatures.

This 21th day of Dec., 2012



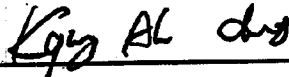
Eun-Sung JUNG

This 21th day of Dec., 2012



Bon-Cheol GU

This 21th day of Dec., 2012



Kyung-Ah CHANG