

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>YU JIN PARK</td> <td>08/17/2012</td> </tr> <tr> <td>KWI SUNG YOO</td> <td>08/17/2012</td> </tr> <tr> <td>SEUNG HYUN LIM</td> <td>08/17/2012</td> </tr> </tbody> </table>		Name	Execution Date	YU JIN PARK	08/17/2012	KWI SUNG YOO	08/17/2012	SEUNG HYUN LIM	08/17/2012		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>SAMSUNG ELECTRONICS CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>129, SAMSUNG-RO, YEONGTONG-GU</td> </tr> <tr> <td>City:</td> <td>SUWON-SI, GYEONGGI-DO</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>443-742</td> </tr> </table>		Name:	SAMSUNG ELECTRONICS CO., LTD.	Street Address:	129, SAMSUNG-RO, YEONGTONG-GU	City:	SUWON-SI, GYEONGGI-DO	State/Country:	KOREA, REPUBLIC OF	Postal Code:	443-742
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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>13616205</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13616205						
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CORRESPONDENCE DATA											
<p>Fax Number: 5712830740 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 5712830720 Email: aloomis@volentine.com Correspondent Name: VOLENTINE & WHITT, PLLC Address Line 1: 11951 FREEDOM DRIVE, SUITE 1300 Address Line 4: RESTON, VIRGINIA 20190</p>											
ATTORNEY DOCKET NUMBER:	SEC.3128										
NAME OF SUBMITTER:	ADAM C. VOLENTINE										
<p>Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif</p>											

CH \$40.00 13616205

PATENT

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Insert**Name(s) of
Inventor(s)**

- | | |
|-------------------|-----------|
| 1. YU JIN PARK | 7. _____ |
| 2. KWI SUNG YOO | 8. _____ |
| 3. SEUNG HYUN LIM | 9. _____ |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

Insert**Name(s) of
Assignee(s) &**

the undersigned hereby sell(s) and assign(s) to

Address(es)

SAMSUNG ELECTRONICS CO., LTD.
129, Samsung-ro, Yeongtong-gu,
 of Suwon-si, Gyeonggi-do 443-742, Republic of Korea

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

Title of**Invention**TWO-STEP ANALOG-DIGITAL CONVERTING CIRCUIT AND METHOD**Date of****Signing of
Application**

for which an application for patent in the United States of America has been executed by
 the undersigned on August 17, 2012

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby grant(s) the practitioners associated with the CUSTOMER NUMBER 20987 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

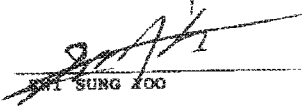
In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 2012.08.17


Signature of Inventor


YU JIN PARK
Date 2012.08.17

Signature of Inventor


YU SUNG ZOO
Date 2012.08.17

Signature of Inventor


SEUNG HYUN LIM

Date _____

Signature of Inventor

Date _____

Signature of Inventor

Date _____

Signature of Inventor

(Note regarding Witnessing: It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.)

Witness _____

Witness _____

Applicant Reference No. SOV-001350-US

