

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Bruno CLERCKX	05/12/2009
Sung Jin KIM	05/12/2009
Ki Il KIM	05/12/2009

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	416, Maetan-dong, Yeongtong-gu, Suwon-si,
City:	Gyeonggi-do
State/Country:	REPUBLIC OF KOREA
Postal Code:	443-742

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12429937

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	Andrew F. Bodendorf

Total Attachments: 5
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JOINT INVENTION

(U.S. Rights Only)

ASSIGNMENT

WHEREAS, We, the below named inventors, (hereinafter referred to as assignors, have made an invention entitled:

MULTIPLE ANTENNA COMMUNICATION SYSTEM INCLUDING ADAPTIVE
UPDATING AND CHANGING OF CODEBOOKS

for which we executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent

on April 24, 2009 Application No. 12/429,937 ; and

WHEREAS,

SAMSUNG ELECTRONICS CO., LTD., a Republic of Korea corporation having principal executive offices or place of business at:

416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea, (hereinafter referred to as assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention, and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, their lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignees, their successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignees, their successors and assigns, any facts known to us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignees, their successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignees, their successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers and/or the rendering of such aid shall be borne by the assignees, their successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert the filing date and application number of said application above in the lines provided when known.

IN WITNESS WHEREOF, I hereto set my hand and seal this 12th day of
May, 2009

Signature: _____


Bruno CLERCKX

City of Yongin, Gyeonggi-do

Country of Rep. of Korea:

Before me this _____ day of _____, 2009, personally appeared known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that they executed the same as his free act and deed for the purposes therein contained.

Witness or Notary Public

IN WITNESS WHEREOF, I hereto set my hand and seal this 12th day of
May, 2009

Signature: 
Sung Jin KIM

City of Suwon, Gyeonggi-do :

Country of Rep. of Korea :

Before me this _____ day of _____, 2009, personally appeared
known to me to be the person whose name is subscribed to the foregoing Assignment and
acknowledged that they executed the same as his free act and deed for the purposes therein
contained.

Witness or Notary Public

IN WITNESS WHEREOF, I hereto set my hand and seal this 12th day of
May, 2009

Signature: 

Ki Il KIM

City of Seongnam, Gyeonggi-do

:
Country of Rep. of Korea:

Before me this _____ day of _____, 2009, personally appeared
known to me to be the person whose name is subscribed to the foregoing Assignment and
acknowledged that they executed the same as his free act and deed for the purposes therein
contained.

Witness or Notary Public