

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Young Seop Song	05/27/2011
Choongil Yeh	06/01/2011
Dong Seung Kwon	05/31/2011
Min Sik Seo	05/31/2011
Joondoo Kim	05/25/2011
Jiwon Kang	05/29/2011
Chungyong Lee	05/25/2011

**RECEIVING PARTY DATA**

<b>Name:</b>	Samsung Electronics Co., Ltd.
<b>Street Address:</b>	416, Maetan-dong
<b>Internal Address:</b>	Yeongtong-gu, Suwon-si
<b>City:</b>	Gyeonggi-do
<b>State/Country:</b>	REPUBLIC OF KOREA
<b>Postal Code:</b>	442-742

<b>Name:</b>	Electronics and Telecommunications Research Institute
<b>Street Address:</b>	161, Gajeong-dong
<b>Internal Address:</b>	Yuseong-gu
<b>City:</b>	Daejeon
<b>State/Country:</b>	REPUBLIC OF KOREA
<b>Postal Code:</b>	305-350

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	13132915

**CORRESPONDENCE DATA**

CH \$40.00 13132915

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ATTORNEY DOCKET NUMBER:	SAMS08-10856
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NAME OF SUBMITTER:	William A. Munck
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Total Attachments: 10  
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DOCKET NO.: OPP20110856US

PATENT

**ASSIGNMENT**

WHEREAS, We, **SONG, Young Seog**, resident of Daejeon, Republic of Korea, citizen of Republic of Korea; **YEH, Choongil**, resident of Daejeon, Republic of Korea, citizen of Republic of Korea; **KWON, Dong Seung**, resident of Daejeon, Republic of Korea, citizen of Republic of Korea; **SEO, Min Sik**, resident of Daejeon, Republic of Korea, citizen of Republic of Korea; **KIM, Joondoo**, resident of Daejeon, Republic of Korea, citizen of Republic of Korea and **KANG, Jiwon**, resident of **Incheon**, Republic of Korea, citizen of Republic of Korea, and **LEE, Chungyong**, resident of **Seoul**, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful improvements in a "TRANSMITTING APPARATUS IN MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM" disclosed in an application for United States Letters Patent (Application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_), said application having been executed concurrently herewith;

WHEREAS, **SAMSUNG ELECTRONICS CO., LTD.**, a corporation organized under the laws of the Republic of Korea, having a place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 442-742, Republic of Korea, and **ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE**, a corporation organized under the laws of the Republic of Korea, having a business address at 161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea (hereinafter referred to as "ASSIGNEES"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEES, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; We authorize William A. Munck or John T. Mockler of **Munck Carter, LLP.** to insert in the parenthesis above the application number and filing date of said application when known; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEES of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEES, their successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in

ASSIGNEES, their successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEES, or to their successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEES, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEES and to aid said ASSIGNEES, their successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date: \_\_\_\_\_

\_\_\_\_\_  
SONG, Young Seog

Date: \_\_\_\_\_

\_\_\_\_\_  
YEH, Choongil

Date: \_\_\_\_\_

\_\_\_\_\_  
KWON, Dong Seung

Date: \_\_\_\_\_

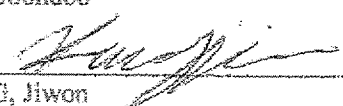
\_\_\_\_\_  
SEO, Min Sik

Date: \_\_\_\_\_

\_\_\_\_\_  
KIM, Joondoo

May 29, 2011

Date: \_\_\_\_\_

\_\_\_\_\_  
  
KANG, Jiwon

Date: \_\_\_\_\_

\_\_\_\_\_  
LEE, Chungyong

DOCKET NO.: OPP20110856US

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Date: May 27, 2011



\_\_\_\_\_  
SONG, Young Seog

Date: \_\_\_\_\_

\_\_\_\_\_  
YEH, Choongil

Date: \_\_\_\_\_

\_\_\_\_\_  
KWON, Dong Seung

Date: \_\_\_\_\_

\_\_\_\_\_  
SEO, Min Sik

Date: \_\_\_\_\_

\_\_\_\_\_  
KIM, Joondoo

Date: \_\_\_\_\_

\_\_\_\_\_  
KANG, Jiwon

Date: \_\_\_\_\_

\_\_\_\_\_  
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Date: \_\_\_\_\_

\_\_\_\_\_  
SONG, Young Seog

Date: \_\_\_\_\_

\_\_\_\_\_  
YEH, Choongil

May 31, 2011

Date: \_\_\_\_\_

*X Dong Seung*  
\_\_\_\_\_  
KWON, Dong Seung

May 31, 2011

Date: \_\_\_\_\_

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\_\_\_\_\_  
SEO, Min Sik

Date: \_\_\_\_\_

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KIM, Joondoo

Date: \_\_\_\_\_

\_\_\_\_\_  
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Date: \_\_\_\_\_

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SONG, Young Seog

Date: \_\_\_\_\_

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YEH, Choongil

Date: \_\_\_\_\_

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KWON, Dong Seung

Date: \_\_\_\_\_

\_\_\_\_\_  
SEO, Min Sik

Date: 5/25/2011

Joondoo Kim  
\_\_\_\_\_  
KIM, Joondoo

Date: \_\_\_\_\_

\_\_\_\_\_  
KANG, Jiwon

Date: 5/25/2011

Chungyong Lee  
\_\_\_\_\_  
LEE, Chungyong

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Date: \_\_\_\_\_

\_\_\_\_\_  
SONG, Young Seog

Date: June 1, 2011  
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\_\_\_\_\_  
YEH, Choongil

Date: \_\_\_\_\_

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KWON, Dong Seung

Date: \_\_\_\_\_

\_\_\_\_\_  
SEO, Min Sik

Date: \_\_\_\_\_

\_\_\_\_\_  
KIM, Joondoo

Date: \_\_\_\_\_

\_\_\_\_\_  
KANG, Jiwon

Date: \_\_\_\_\_

\_\_\_\_\_  
LEE, Chungyong