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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**

Rog A. Leonidovich Golikov M. Vladimirovich  
Melnikov A. Olegovich Soongyoon Choi  
Chernysh A. Victorovich

Execution Date(s) January 11, 2010, respectively

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Samsung Electronics Co., Ltd.

Internal Address: \_\_\_\_\_

Street Address: 416, Maetan-dong, Yeongtong-gu,

Suwon-si, Gyeonggi-do, 442-370

City: \_\_\_\_\_

State: \_\_\_\_\_

Country: Republic of Korea Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

A. Patent Application No.(s)

☒ This document is being filed together with a new application.

B. Patent No.(s)

12 657 087

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Docket Clerk

Internal Address: \_\_\_\_\_

Street Address: P.O. Drawer 800889

City: Dallas

State: Texas Zip: 75380

Phone Number: 972-628-3600

Fax Number: 972-628-3616

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-0208

Authorized User Name William A. Munck

**9. Signature:**

Signature

January 12, 2010

Date

William A. Munck

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

PATENT

REEL: 023840 FRAME: 0696

ASSIGNMENT

WHEREAS, We, Rog Andrey Leonidovich, resident of Moscow, Russia, citizen of Russia, Melnikov Alexey Olegovic, resident of Moscow, Russia, citizen of Russia, Chernysh Alexander Victorovich, resident of Moscow, Russia, citizen of Russia, Golikov Michael Vladimirovich, resident of Moscow, Russia, citizen of Russia, and Soongyoon Choi, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful improvements in a "ADVANCED METHOD FOR DECODING IN THE MIMO SYSTEM AND APPARATUS FOR IMPLEMENTING THEREOF" disclosed in an application for United States Letters Patent (Application No. \_\_\_\_\_, filed \_\_\_\_\_), 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 442-370, Republic of Korea (hereinafter referred to as "ASSIGNEE"), 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 ASSIGNEE, 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 ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its 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 ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, 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 ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

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

\_\_\_\_\_  
Rog Andrey Leonidovich

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

\_\_\_\_\_  
Melnikov Alexey Olegovich

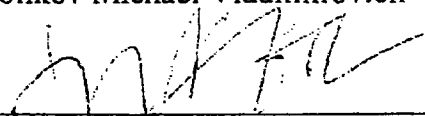
Date: \_\_\_\_\_

\_\_\_\_\_  
Chemysh Alexander Victorovich

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

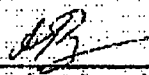
\_\_\_\_\_  
Golikov Michael Vladimirovich

Date: January 11, 2010

  
\_\_\_\_\_  
Soongyeon Choi

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, 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 ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date: January 11, 2010

  
Rog Andrey Leonidovich

Date: January 11, 2010

  
Melnikov Alexey Olegovich

Date: January 11, 2010

  
Chernysh Alexander Victorovich

Date: January 11, 2010

  
Golikov Michael Vladimirovich

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

\_\_\_\_\_  
Soongyoon Choi