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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Mohsen ABDELLAOUI  
Yong-suk KIM  
Wan-jin KIM  
Dan MEACHAM  
Woo-Kyung LEE

## 2. Name and address of receiving party(ies):

SAMSUNG ELECTRONICS CO., LTD.  
416, Maetan-dong, Yeongtong-gu,  
Suwon-si, Gyeonggi-do  
Republic of KoreaSTACCATO COMMUNICATIONS, INC.  
5893 Oberlin Drive, Suite 105  
San Diego, CA 92121Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒
- Assignment
- ☐
- Merger
- 
- ☐
- Security Agreement
- ☐
- Change of Name
- 
- ☐
- Other

Execution Date: July 02, 05, 05, 02, and 05, 2004

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

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

If this document is being filed together with a new application, the execution date of the application is: July 02, 05, 05, 02, and 05, 2004

A. Patent Application No.(s)  
Not yet assignedB. Patent No.(s)  
Not yet assignedAdditional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

SUGHRUE MION, PLLC

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

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

1

## 7. Total fee (37 CFR 3.41): \$40.00

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*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*  
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July 13, 2004

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PATENT  
REEL: 015573 FRAME: 0610

Docket No. Q76561  
For Non-U.S. Clients

## Assignment

Whereas, We, Mohsen ABDELLAOUI, Yong-suk KIM, Wan-jin KIM, Dan MEACHAM and Woo-Kyung LEE of San Diego, California, Daejeon, Republic of Korea, Seoul, Republic of Korea, San Diego, California, and Suwon-si, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in APPARATUS AND METHOD FOR FREQUENCY GENERATION IN MOBILE COMMUNICATION SYSTEM and executed an application for Letters Patent of the United States of America therefor on \_\_\_\_\_; and

Whereas, SAMSUNG ELECTRONICS CO., LTD., 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea and STACCATO COMMUNICATIONS, INC., 5893 Oberlin Drive, Suite 105, San Diego, CA 92121 (assignees), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number \_\_\_\_\_ and Confirmation number \_\_\_\_\_ filed \_\_\_\_\_) the application number and filing date of said application when known.

Date: 7-2-04 Mohsen Abdelloui  
s/ Mohsen ABDELLAOUI

Date: 07-05-04 [Signature]  
s/ Yong-suk KIM

Date: 07-05-04 [Signature]  
7-2-04 s/ Wan-jin KIM

Date: [Signature]  
s/ Dan MEACHAM

Date: 07-05-04 [Signature]  
s/ Woo-Kyung LEE

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