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To the Director of the U.S. Patent and Trademark Office.

ed document.

1. Name of conveying party(ies):

Ki Hyun CHOO

Eun Mi OH

Ho Sang SUNG

U.S. PTO

13/137779

09/12/2011

2. Name and Address of receiving party(ies):

SAMSUNG ELECTRONICS CO., LTD.

416, Maetan-dong, Yeongtong-gu,

Suwon-si, Gyeonggi-do 443-742 Republic of Korea

3. Nature of conveyance:

☒

Assignment

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Other:

Execution Date(s): September 5, 2011

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

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

OR

☐ This document is being filed after filing of the application:

(a) Patent Application No(s). To be determined, filed September 12, 2011; or

(b) Patent No(s). , issued .

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

STAAS & HALSEY LLP

Our Docket: 1911.1498

Attention: David J. Cutitta

1201 New York Ave., N.W., 7th Floor

Washington, D.C. 20005

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment)

☒

Enclosed

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8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)  
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David J. Cutitta, Reg. No. 52,790

Name of Person Signing

Signature

September 12, 2011

Date

Total number of pages including cover sheet: 2

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## U.S. ASSIGNMENT

SAW 140

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned Inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRONICS CO., LTD.  
416, Maetan-dong, Yeongtong-gu,  
Suwon-si, Gyeonggi-do 443-742  
Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled  
(Title of Invention)

### APPARATUS AND METHOD FOR ENCODING AND DECODING SIGNAL FOR HIGH FREQUENCY BANDWIDTH EXTENSION

relating to International Patent Application PCT/JP \_\_\_\_/\_\_\_\_ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on :

(Insert date of execution of application, if not concurrent)

(b) filed on :

Serial No. To be determined;

Any registered attorney of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

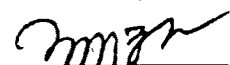
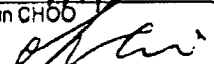
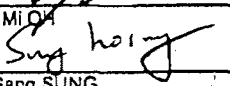
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IN WITNESS WHEREOF, the undersigned Inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1) 	2011. 09. 05	
Ki Hyun CHOO		
2) 	2011. 09. 05	
Eun MI OH		
3) 	2011. 09. 05	
Ho Sang SUNG		
4) _____	_____	_____
5) _____	_____	_____
6) _____	_____	_____
7) _____	_____	_____