# 502529899 10/11/2013

## PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
WOOGEUN RHEE	10/07/2013
FEI CHEN	10/07/2013
JONG JIN KIM	10/07/2013
DONG WOOK KIM	10/07/2013
ZHIHUA WANG	10/07/2013

## **RECEIVING PARTY DATA**

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State/Country:	KOREA, REPUBLIC OF	

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#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13966462

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PATENT

REEL: 031389 FRAME: 0828

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NAME OF SUBMITTER:	JONATHAN D. SCHLAIFER	
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Date: 10/11/2013		
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PATENT REEL: 031389 FRAME: 0829

#### ASSIGNMENT

For valuable consideration, we.

Woogeun RHEE	Tsinghua University, Haidian District, Beijing 100084, P.R. China
Fei CHEN	Tsinghua University, Haidian District, Beijing 100084, P.R. China
Jong Jin KIM	Samsung Advanced Institute of Technology, Mt. 14-1, Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, 446-712, Republic of Korea
Dong Wook KIM	Samsung Advanced Institute of Technology, Mt. 14-1, Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, 446-712, Republic of Korea
Zhihua WANG	Tsinghua University, Haidian District, Beijing 100084, P.R. China

hereby assign to:

- (1) SAMSUNG ELECTRONICS CO., LTD., a Republic of Korea corporation having principal executive offices or place of business at:
- 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea, and
- (2) Tsinghua University, a Chinese institution having its principal executive offices or place of business at:

Tsinghua University, Haidian District, Beijing, 100084, P.R. China,

its successors and assigns (collectively hereinafter called "the Assignees"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of U.S. Patent Application Number 13/966,462 filed August 14, 2013 at the U.S. Patent & Trademark Office signed by us, with title AP PARATUS AND METHOD FOR ULTRA WIDEBAND COMMUNICATION USING DUAL BAND PASS FILTER, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and application serial number of said application when known; this Assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

DESERT CANNAU AUGUSTA PERSONAL

assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, preliminary statements and other lawful documents as the Assignment may reasonably request to effectuate fully this Assignment.

IN TESTIMONY/WITNESS WHEREOF, we, undersigned inventors (Assignors) intending to be legally bound, have hereto affixed our signatures.

This <u>I</u> day of <u>Oct</u> 2013	from face
en e	Signature: Woogeun RHEE
This	Fei Chen
	Signature: Fei CHEN
This 1 day of 0 t , 2013	1/2
	Signature: Jong Jin KIM
This Z day of Oct 2013	
	Signature: Dong Wook KIM
This 7 day of Oct 2013	YSP
	Signature: Zhihoa WANG

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