### 501910712 05/04/2012

#### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Jong Bu LIM	04/23/2012
Ui Kun KWON	04/23/2012
Sang Joon KIM	04/23/2012

#### **RECEIVING PARTY DATA**

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State/Country:	KOREA, REPUBLIC OF	

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13464201

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Total Attachments: 2

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PATENT

REEL: 028157 FRAME: 0974

OF \$40.00 13464201

### ASSIGNMENT

For valuable consideration, we,

Jong Bu LIM No. 1-508, Dormitory, Samsung Advanced Institute of

Technology, Nongseo-dong, Giheung-gu, Yongin-si,

Gyeonggi-do 446-712, Republic of Korea

Ul Kun KWON No. 245-1304, Sibeom Hanbit Maeul Kumho Eoullim Apt.,

Bansong-dong, Hwaseong-si, Gyeonggi-do 445-725,

Republic of Korea

Sang Joon KIM No. 212-104, Hanjin Apt., Donam 2-dong, Seongbuk-gu,

Seoul 136-753 Republic of Korea

hereby assign to:

SAMSUNG ELECTRONICS CO., LTD., a Republic of Korea corporation/institution/foundation/institute having principal executive office(s) or place of business at: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742,

Republic of Korea; and

its successors and assigns (collectively no	ereinanter cantet	i "the Assignee"), the entire right
title and interest throughout the world in the im-	ventions and in	sprovements which are subject o
U.S. Patent Application Number	filed	at the U.S. Patent &
Trademark Office signed by us, with title COM		
APPARATUS OF FIRST NODE AND SECO	<u>ND NODE CC</u>	<u>IMMUNICATING BASED ON</u>
FULL DUPLEX COMMUNICATION SCHE	ME USING N	EAR FIELD, and we authorize
and request the attorneys appointed in said applie	cation to hereaf	ter complete this assignment by
inserting above the filing date and application se	rial number of	said application when known;
this Assignment including said application, any	and all United S	States and foreign patents, utility
models, and design registrations granted for any	of said invention	ons or improvements, and the
right to claim priority based on the filing date of	said application	n under the International
Convention for the Protection of Industrial Propo	erty, the Patent	Cooperation Treaty, the
European Patent Convention, and all other treatie	es of like purpo	ses; and we authorize the
Assignce to apply in all countries in our name or	in its own nam	e for patents, utility models,
design registrations and like rights of exclusion a	und for inventor	s' certificates for said inventions
and improvements; and we agree for ourselves a	nd our respectiv	ve heirs, legal representatives and
assigns, without further compensation to perform	such lawful ac	cts and to sign such further
applications, assignments, preliminary statement	s and other law	ful documents as the Assignee
may reasonably request to effectuate fully this A	ssignment.	

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PATENT REEL: 028157 FRAME: 0975

# Page 2 of 2

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

This  $\frac{2^{3}}{2^{3}}$  day of  $\frac{4p^{3}}{2^{3}}$ , 2012

Signature: Jong Bu LIM

Signature: Ui Kun KWON

This  $\frac{2^3}{}$  day of  $\frac{Ap^{3}}{}$ , 2012

Signature: Sang Joon KIM

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PATENT REEL: 028157 FRAME: 0976

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**RECORDED: 05/04/2012**