PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Young Jun Hong	12/02/2010
Bruno Clerckx	12/02/2010
Young Ho Jung	12/02/2010
Joon Young Cho	12/02/2010
Jin Kyu Han	12/02/2010
In Ho Lee	12/02/2010
Hyoung Ju Ji	12/02/2010

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd.
Street Address:	416, Maetan-dong, Yeongtong-gu
City:	Suwon-si, Gyeonggi-do
State/Country:	REPUBLIC OF KOREA
Postal Code:	443-742

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12983702

CORRESPONDENCE DATA

Fax Number: (202)315-3758

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (202) 429-0020 Email: email@nsiplaw.com

Correspondent Name: North Star Intellectual Property Law, PC

Address Line 1: P.O. Box 34688

Address Line 4: Washington, DISTRICT OF COLUMBIA 20043

ATTORNEY DOCKET NUMBER: 12000.SMG.0903

PATENT

REEL: 025575 FRAME: 0834

P \$40.00 12983702

501395383

NAME OF SUBMITTER: Nicholas M. Stabler

Total Attachments: 3

source=Assignment_12000SMG0903#page1.tif source=Assignment_12000SMG0903#page2.tif source=Assignment_12000SMG0903#page3.tif

> PATENT REEL: 025575 FRAME: 0835

ASSIGNMENT

For valuable consideration, we,

HONG, Young Jun No. 88-202, Jugong Apt. Banpobon-dong, Seocho-gu,

Seoul 137-813, Republic of Korea

CLERCKX Bruno No. 920, Seocho EO Vill 1593-7, Seocho-dong, Seocho-gu,

Seoul, Republic of Korea

JUNG, Young Ho No. 207, Electron Zone, Korea Aerospace University

200-1, Hwajeon-dong, Deokyang-gu, Goyang-si,

Gyeonggi-do 412-791, Republic of Korea

CHO, Joon Young No. 224-101, Hwanggol Maeul 2-danji Apt.

Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-470, Republic of Korea

HAN, Jin Kyu No. 112-1113, Kukdong Apt. Sadang 2-dong, Dongjak-gu,

Seoul 156-772, Republic of Korea

LEE, In Ho No. 846-905, Byeokjeokgol Jugong Apt. (23/1) 972-2

Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-470, Republic of Korea

JI, Hyoung Ju No. 6-201, 79 Hongsil Apt. Samsung 1-dong, Gangnam-gu,

Seoul 135-866, Republic of Korea

hereby assign to:

SAMSUNG ELECTRONICS CO., LTD., a Republic of Korea

corporation/institute/institution 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 hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of U.S. Patent Application Number 12/983/702 filed January 3, 2011 at the U.S. Patent & Trademark Office signed by us, with title METHOD OF TRANSMITTING AND RECEIVING CONTROL INFORMATION BASED ON SPATIAL-MULTIPLEXING GAIN, 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,

PATENT REEL: 025575 FRAME: 0836

Page 2 of 3

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

PATENT REEL: 025575 FRAME: 0837

Page 3 of 3

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

This	2	day of	Dec	, 2010
11113		_ uay or		_, 2010

Signature: HONG, Young Jun

Signature: CLERCKX Bruno

This	2	day of	Dec.	, 2010

Signature: JUNG, Young Ho

This _	2	_ day of _	Dec	, 2010
--------	---	------------	-----	--------

Signature: CHO, Joon Young

This 2 day of Dec, 2	010
----------------------	-----

Signature: HAN, Jin Kyu

This 2 day of Dec , 2010

Signature: LEE, In Ho

This 2 day of 10cc, 2010

Signature: JI, Hyoung Ju

RECORDED: 01/03/2011