

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Bruno Clerckx	10/15/2009
David MAZZARESE	10/15/2009
Ki II KIM	10/15/2009
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742
City:	Suwon-si
State/Country:	REPUBLIC OF KOREA
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12581218
CORRESPONDENCE DATA	
Fax Number:	(202)315-3758
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	202-429-0020
Email:	info@nsiplaw.com
Correspondent Name:	North Star Intellectual Property Law, PC
Address Line 1:	P.O. Box 34688
Address Line 4:	Washington DC, DISTRICT OF COLUMBIA 20043
ATTORNEY DOCKET NUMBER:	12000.SMG.0638
NAME OF SUBMITTER:	Charles Y. Park

Total Attachments: 4
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**PATENT
 REEL: 023387 FRAME: 0645**

ASSIGNMENT

For valuable consideration, We,

- (1) Name: **Bruno CLERCKX**
Address: Samsung Advanced Institute of Technology, San 14-1,
Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do 446-712, Republic of Korea
Nationality: Belgium

- (2) Name: **David MAZZARESE**
Address: No. 945-104, Byeokjeokgol Letter Apt., Yeongtong -dong,
Yeongtong -gu, Suwon-si, Gyeonggi-do 443-725,
Republic of Korea
Nationality: France

- (3) Name: **Ki Il KIM**
Address: No. 101-501, I-park Apt., Yatap-dong, Bundang-gu
Seongnam-si, Gyeonggi-do 463-070, Republic of Korea
Nationality: Republic of Korea

hereby assign to:

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

having principal executive offices 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 12/581,218 filed 10/19/2009 at the U.S. Patent & Trademark Office signed by us, with title CODEBOOK DESIGN METHOD FOR MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM AND METHOD FOR USING THE CODEBOOK, 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 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.

IN WITNESS WHEREOF, I hereto set my hand and seal this 15th day of
October, 2009

Signature: Bruno Clerckx
Bruno CLERCKX

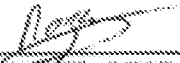
City of _____ ;

Country of _____ ;

Before me this _____ day of _____, 2009, personally appeared
known to me to be the person whose name is subscribed to the foregoing Assignment and
acknowledged that they executed the same as his free act and deed for the purposes therein
contained.

Witness or Notary Public

IN WITNESS WHEREOF, I hereto set my hand and seal this 15th day of
October, 2009

Signature: 
David MAZZARESE

City of _____ :

;

Country of _____ :

Before me this _____ day of _____, 2009, personally appeared
known to me to be the person whose name is subscribed to the foregoing Assignment and
acknowledged that they executed the same as his free act and deed for the purposes therein
contained.

Witness or Notary Public

IN WITNESS WHEREOF, I hereio set my hand and seal this 15th day of October, 2009

Signature: 
Ki Il KIM

City of _____ ;

;

Country of _____ ;

Before me this _____ day of _____, 2009, personally appeared known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that they executed the same as his free act and deed for the purposes therein contained.

Witness or Notary Public