

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Woong SEO	10/02/2010
Soo-Jung RYU	10/02/2010
Yoon-Jin KIM	10/02/2010
Young-Chul CHO	10/02/2010
Il-Hyun PARK	10/02/2010
Tae-Wook OH	10/02/2010
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	416, Maetan-dong, Yeongtong-gu
City:	Suwon-si, Gyeonggi-do 443-742
State/Country:	REPUBLIC OF KOREA
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12902681
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, DISTRICT OF COLUMBIA 20043
ATTORNEY DOCKET NUMBER:	12000.SMG.0860
NAME OF SUBMITTER:	Thomas L. Jones

OP \$40.00 12902681

Total Attachments: 8

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ASSIGNMENT

For valuable consideration, We,

- (1) Name: **Woong SEO**
Address: 305-803 Dasoop Castle Apt., Sibeom Daeun Maeul, Bansong-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea
Nationality: Republic of Korea
- (2) Name: **Soo-Jung RYU**
Address: 404-2001 Gyeongnam Anusvill Apt., Solbit Maeul, Bansong-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea
Nationality: Republic of Korea
- (3) Name: **Yoon-Jin KIM**
Address: 2-502 Hanyang Apt. 1cha, Songpa-dong, Songpa-gu, Seoul, Republic of Korea
Nationality: Republic of Korea
- (4) Name: **Young-Chul CHO**
Address: 504-204 Galhyeon Hyundai Hometown, Singal-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Nationality: Republic of Korea
- (5) Name: **Il-Hyun PARK**
Address: A-520 Dormitory, Samsung Advanced Institute of Technology, Mt.14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Nationality: Republic of Korea
- (6) Name: **Tae-Wook OH**
Address: 5-503 Mujigae Apt., Seocho 2-dong, Seocho-gu, Seoul, 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 successor 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 12/902,681 filed October 12, 2010 at the U.S. Patent & Trademark Office signed by us, with title **APPARATUS TO ACCESS MULTI-BANK MEMORY**, 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 2nd day of
October, 2010

Signature: 
Woong SEO

City of _____ :

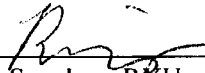
:

Country of _____ :

Before me this _____ day of _____, 2010, 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 2nd day of
October, 2010

Signature: 
Soo-Jung RYU

City of _____ :

:

Country of _____ :

Before me this _____ day of _____, 2010, 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 2nd day of
October, 2010

Signature: 
Yoon-Jin KIM

City of _____ :


:

Country of _____ :

Before me this _____ day of _____, 2010, 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 2nd day of
October, 2010

Signature:  _____
Young-Chul CHO

City of _____ :

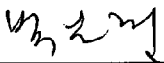
:

Country of _____ :

Before me this _____ day of _____, 2010, 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 2nd day of
October, 2010


Signature: 
Il-Hyun PARK

City of _____ :

:

Country of _____ :

Before me this _____ day of _____, 2010, 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 2nd day of
October, 2010

Signature: 
Tae-Wook OH

City of _____ :

:

Country of _____ :

Before me this _____ day of _____, 2010, 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