PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

<table>
<thead>
<tr>
<th>SUBMISSION TYPE:</th>
<th>NEW ASSIGNMENT</th>
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<tbody>
<tr>
<td>NATURE OF CONVEYANCE:</td>
<td>ASSIGNMENT</td>
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CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Joo-young KANG</td>
<td>01/14/2010</td>
</tr>
<tr>
<td>Hyun-wook OK</td>
<td>01/14/2010</td>
</tr>
<tr>
<td>Seong-deok LEE</td>
<td>01/14/2010</td>
</tr>
<tr>
<td>Byung-kwan PARK</td>
<td>01/14/2010</td>
</tr>
<tr>
<td>Jae-guyn LIM</td>
<td>01/14/2010</td>
</tr>
</tbody>
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RECEIVING PARTY DATA

<table>
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<tr>
<th>Name:</th>
<th>SAMSUNG ELECTRONICS CO., LTD.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address:</td>
<td>416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742</td>
</tr>
<tr>
<td>City:</td>
<td>Suwon-si</td>
</tr>
<tr>
<td>State/Country:</td>
<td>REPUBLIC OF KOREA</td>
</tr>
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PROPERTY NUMBERS Total: 1

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<tr>
<th>Property Type</th>
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<tr>
<td>Application Number:</td>
<td>12692678</td>
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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: 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.0590

NAME OF SUBMITTER: Charles Y. Park

Total Attachments: 7
source=AssignmentSMG590#page1.tif

501074044
ASSIGNMENT

For valuable consideration, We,

(1) Name: Joo-young KANG
    Address: C-204 Dormitory, Samsung Advanced Institute of Technology, Mt.14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
    Nationality: Republic of Korea

(2) Name: Hyun-wook OK
    Address: 303-504 Gangbyeon Samsung Raemian Apt., Dangsandong 6-ga, Yeongdeungpo-gu, Seoul, Republic of Korea
    Nationality: Republic of Korea

(3) Name: Seong-deok LEE
    Address: 435-1504 Samsung Apt., Cheongmyeong Maeul 4-danji, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
    Nationality: Republic of Korea

(4) Name: Byung-kwan PARK
    Address: 1507 Ssangyong Platinum, 1445-13 Seocho-dong, Seocho-gu, Seoul, Republic of Korea
    Nationality: Republic of Korea

(5) Name: Jae-gyuyn LIM
    Address: Dormitory, Samsung Advanced Institute of Technology, Mt.14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, 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 / 12/692,678 filed 01/25/2010 at the U.S. Patent & Trademark Office signed by us, with title APPARATUS AND METHOD FOR ACQUIRING LIGHT FIELD DATA USING VARIABLE MODULATOR, 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 14 day of January, 2010

Signature: ____________________________
Joo-young KANG

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 __14__ day of
January __, 2010

Signature: __Hyun-wook OK__

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 14 day of January, 2010

Signature: 

Seong-deok LEE

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 14th day of
January, 2010

Signature: Byung Kwan Park
Byung-kwan 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 14 day of
January, 2010

Signature: [Signature]
Jae-guyn Lim

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