

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Chul-Yong CHO</td> <td>08/18/2010</td> </tr> <tr> <td>Sung-II BANG</td> <td>08/18/2010</td> </tr> <tr> <td>Tae-Hun KIM</td> <td>08/18/2010</td> </tr> <tr> <td>Sin-Wi MOON</td> <td>08/18/2010</td> </tr> <tr> <td>Yu-Li SUNG</td> <td>08/18/2010</td> </tr> </tbody> </table>		Name	Execution Date	Chul-Yong CHO	08/18/2010	Sung-II BANG	08/18/2010	Tae-Hun KIM	08/18/2010	Sin-Wi MOON	08/18/2010	Yu-Li SUNG	08/18/2010
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Samsung Electronics Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>416, Maetan 3-dong, Paldal-gu, Suwon-city,</td> </tr> <tr> <td>City:</td> <td>Kyunggi-do</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> </table>		Name:	Samsung Electronics Co., Ltd.	Street Address:	416, Maetan 3-dong, Paldal-gu, Suwon-city,	City:	Kyunggi-do	State/Country:	REPUBLIC OF KOREA				
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CORRESPONDENCE DATA													
<p>Fax Number: (269)381-5465</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 269-381-1156</p> <p>Email: docket@flynnthiel.com</p> <p>Correspondent Name: Liane L. Churney</p> <p>Address Line 1: 2026 Rambling Road</p> <p>Address Line 4: Kalamazoo, MICHIGAN 49008</p>													
ATTORNEY DOCKET NUMBER:	3138.P0782US												
NAME OF SUBMITTER:	Liane L. Churney												
<p>Total Attachments: 1</p> <p>source=Assignment#page 1.tif</p>													

CH \$40.00 29370853

PATENT

501336948

REEL: 025225 FRAME: 0949

ASSIGNMENT

United States (Sole or Joint)
(Excluding Foreign Rights)

WHEREAS, I/We,

Chul-Yong CHO (102-407, Jugong APT., Guro 1-dong, Guro-gu, Seoul, Korea)
 Sung-Il BANG (102-1504, Lotte APT., Samsung-dong, Gangnam-gu, Seoul, Korea)
 Tae-Hun KIM (D-2301, Towerpalace, 467, Dogog-dong, Gangnam-gu, Seoul, Korea)
 Sin-Wi MOON (287-4, Jungang-dong, Seogwipo-city, Jeju-do, Korea)
 Yu-Li SUNG (303-401, Genyoung, Yangji-maul, Janghwang-dong, Ilsandong-gu,
 Goyang-city, Kyunggi-do, Korea)

residing at

have invented certain new and useful improvements in Set top box
 for which an application for United States Letters Patent was signed on even date

WHEREAS, Samsung Electronics Co., Ltd.

having a place of business at 416, Maetan 3-dong, Paldal-gu, Suwon-city, Kyunggi-do, Korea

hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest
 in and to said invention and in and to any Letters Patent that may be granted therefor, in
 the United States and its territorial possessions.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other valuable
 considerations, the receipt whereof is hereby acknowledged, I/We have sold, assigned and
 transferred, and by these presents do sell, assign, transfer and confirm in and to said
 Assignee my/our full and exclusive right to the said invention in the United States and its
 territorial possessions and my/our entire right, title and interest in and to said application and
 any and all Letters Patent which September be granted therefor in the United States and its
 territorial possessions and in and to any and all divisions, reissues, continuations and
 extensions thereof.

I/We hereby authorize and request the Patent Office Officials in the United States to
 issue any and all of said Letters Patent, when granted, to said Assignee for the sole use
 and behoof of the said Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set my/our hand(s).

Witnessed by :

Inventor(s) :

Date :

August 18, 2010

Chul-Yong CHO

Sung-Il BANG

Tae-Hun KIM

Sin-Wi MOON

Yu-Li SUNG

장영

성일

태훈

신위

유리