

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kiyoung Lee</td> <td>07/30/2013</td> </tr> <tr> <td>Jihyun Park</td> <td>07/29/2013</td> </tr> <tr> <td>Joonyoung Park</td> <td>07/29/2013</td> </tr> <tr> <td>Haejoo Lee</td> <td>07/30/2013</td> </tr> </tbody> </table>		Name	Execution Date	Kiyoung Lee	07/30/2013	Jihyun Park	07/29/2013	Joonyoung Park	07/29/2013	Haejoo Lee	07/30/2013
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Kiyoung Lee	07/30/2013										
Jihyun Park	07/29/2013										
Joonyoung Park	07/29/2013										
Haejoo Lee	07/30/2013										
RECEIVING PARTY DATA											
Name:	OpenTV, Inc.										
Street Address:	275 Sacramento Street										
City:	San Francisco										
State/Country:	CALIFORNIA										
Postal Code:	94111										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>29462079</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	29462079						
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Application Number:	29462079										
CORRESPONDENCE DATA											
Fax Number:	2484337274										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	248 433-7200										
Email:	mdonovan@dickinsonwright.com										
Correspondent Name:	DICKINSON WRIGHT PLLC										
Address Line 1:	2600 W. Big Beaver Rd.										
Address Line 2:	Suite 300										
Address Line 4:	Troy, MICHIGAN 48084										
ATTORNEY DOCKET NUMBER:	56473-00003										
NAME OF SUBMITTER:	John S. Artz										
Signature:	/John S. Artz/										

OP \$40.00 29462079

PATENT

Date:	07/31/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
<p>Total Attachments: 12 source=Kiyoung_Lee_Assignment#page1.tif source=Kiyoung_Lee_Assignment#page2.tif source=Kiyoung_Lee_Assignment#page3.tif source=Jihyun_Park_Assignment#page1.tif source=Jihyun_Park_Assignment#page2.tif source=Jihyun_Park_Assignment#page3.tif source=Joonyoung_Park_Assignment#page1.tif source=Joonyoung_Park_Assignment#page2.tif source=Joonyoung_Park_Assignment#page3.tif source=Haejoo_Lee_Assignment#page1.tif source=Haejoo_Lee_Assignment#page2.tif source=Haejoo_Lee_Assignment#page3.tif</p>	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Joonyoung Park et al.

Application No.: 29/462,079

Confirmation No.: 2288

Filed: July 30, 2013

For: SET-TOP BOX

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION AND ASSIGNMENT BY INVENTOR
UNDER RULE 37 CFR §1.63 EFFECTIVE ON SEPTEMBER 16, 2012

I, Kiyoung Lee of Seoul, Korea, hereby declare that:

1. I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

SET-TOP BOX

the specification of which:

was filed at the U.S. Patent and Trademark Office on July 30, 2013, as Application Serial No. 29/462,079, and identified as Attorney Docket No. 56473-00003 (OTV585)

2. I believe the following persons are additional original joint inventors of the above-identified patent application:

Joonyoung Park of Mountain View, California;
Jihyun Park of Mountain View, California; and
Haejoo Lee of Seoul, Korea.

3. I made, authorized to make, or will make or authorize to make the above-identified patent application at the U.S. Patent and Trademark Office.

4. I have reviewed and understand the contents of the above-identified patent application including the claims.

5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

6. I hereby acknowledge that any willful false statement made in the above declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

7. ASSIGNMENT

I hereby assign to **OpenTV, Inc.**, a corporation of Delaware, having a place of business at 275 Sacramento Street, 94111 San Francisco, California, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in an application for United States Patent, entitled **SET-TOP BOX**, filed 7-30-2013, and assigned U.S. Serial Number 29/462,079.

This assignment includes the entire right, title and interest in said application, all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all divisions, continuations, reissues, reexamination certificates, any and all certificates issued in any post-grant proceeding, and extensions of said applications and patents of the United States, foreign patents, utility models, and design registrations, 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 the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. I authorize the Assignee to apply in all countries in my name or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection

Inventor : Joonyoung Park et al
Serial No. : 29 / 462 , 079
Filed : July 30 , 2013
Page : 3 of 3

Docket No.:56473-00003
D2013-otv585DES-microGWY

with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

8. I hereby authorize and request the Commissioner of Patents and Trademarks to issue one or more patents in the United States for said inventions and improvements to OpenTV, Inc. as assignee of the entire interest, for the sole use and benefit of Assignee, its successors and assigns.

9. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: **Kiyoung Lee**

Inventor's signature: _____



Date: July 30, 2013

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Joonyoung Park et al.

Application No.: 29/462,079

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION AND ASSIGNMENT BY INVENTOR
UNDER RULE 37 CFR §1.63 EFFECTIVE ON SEPTEMBER 16, 2012

I, Jihyun Park of Mountain View, California, hereby declare that:

1. I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

SET-TOP BOX

the specification of which:

was filed at the U.S. Patent and Trademark Office on July 30, 2013, as Application Serial No. 29/462,079, and identified as Attorney Docket No. 56473-00003 (OTV585)

2. I believe the following persons are additional original joint inventors of the above-identified patent application:

Joonyoung Park of Mountain View, California;
Kiyoun Lee of Seoul, Korea; and
Haejoo Lee of Seoul, Korea.

3. I made, authorized to make, or will make or authorize to make the above-identified patent application at the U.S. Patent and Trademark Office.

4. I have reviewed and understand the contents of the above-identified patent application including the claims.

5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

6. I hereby acknowledge that any willful false statement made in the above declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

7. ASSIGNMENT

I hereby assign to **OpenTV, Inc.**, a corporation of Delaware, having a place of business at 275 Sacramento Street, 94111 San Francisco, California, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in an application for United States Patent, entitled **SET-TOP BOX**, filed 7-30-2013, and assigned U.S. Serial Number 29/462,079.

This assignment includes the entire right, title and interest in said application, all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all divisions, continuations, reissues, reexamination certificates, any and all certificates issued in any post-grant proceeding, and extensions of said applications and patents of the United States, foreign patents, utility models, and design registrations, 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 the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. I authorize the Assignee to apply in all countries in my name or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection

encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

8. I hereby authorize and request the Commissioner of Patents and Trademarks to issue one or more patents in the United States for said inventions and improvements to OpenTV, Inc. as assignee of the entire interest, for the sole use and benefit of Assignee, its successors and assigns.

9. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: **Jihyun Park**

Inventor's signature:



Date: 00 / 29 / 2013

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Joonyoung Park et al.

Application No.: 29/462,079

Confirmation No.: 2288

Filed: July 30, 2013

For: SET-TOP BOX

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION AND ASSIGNMENT BY INVENTOR
UNDER RULE 37 CFR §1.63 EFFECTIVE ON SEPTEMBER 16, 2012

I, Joonyoung Park of Mountain View, California, hereby declare that:

1. I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

SET-TOP BOX

the specification of which:

was filed at the U.S. Patent and Trademark Office on July 30, 2013, as Application Serial No. 29/462,079, and identified as Attorney Docket No. 56473-00003 (OTV585)

2. I believe the following persons are additional original joint inventors of the above-identified patent application:

Jihyun Park of Mountain View, California;
Kiyoung Lee of Seoul, Korea; and
Haejoo Lee of Seoul, Korea.

3. I made, authorized to make, or will make or authorize to make the above-identified patent application at the U.S. Patent and Trademark Office.

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5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

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In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

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I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection

Inventor : Joonyoung Park et al
Serial No. : 29/462,079
Filed : July 30, 2013
Page : 3 of 3

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8. I hereby authorize and request the Commissioner of Patents and Trademarks to issue one or more patents in the United States for said inventions and improvements to OpenTV, Inc. as assignee of the entire interest, for the sole use and benefit of Assignee, its successors and assigns.

9. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: **Joonyoung Park**

Inventor's signature: 

Date: 7/29/2013

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Joonyoung Park et al.

Application No.: 29/462,079

Confirmation No.: 2288

Filed: July 30, 2013

For: SET-TOP BOX

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION AND ASSIGNMENT BY INVENTOR
UNDER RULE 37 CFR §1.63 EFFECTIVE ON SEPTEMBER 16, 2012

I, Haejoo Lee of Seoul, Korea, hereby declare that:

1. I believe I am the sole original inventor or an original joint inventor of a claimed invention in a patent application entitled:

SET-TOP BOX

the specification of which:

was filed at the U.S. Patent and Trademark Office on July 30, 2013, as Application Serial No. 29/462,079, and identified as Attorney Docket No. 56473-00003 (OTV585)

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Joonyoung Park of Mountain View, California;
Jihyun Park of Mountain View, California; and
Kiyoun Lee of Seoul, Korea.

4. I have reviewed and understand the contents of the above-identified patent application including the claims.

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In addition, I hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, and transfer any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

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I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection

Inventor : Joonyoung Park et al
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Page : 3 of 3

Docket No.:56473-00003
D2013-otv585DES-microGWY

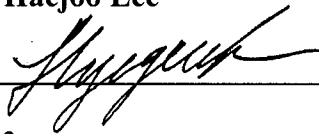
I further covenant for myself and my respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

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9. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Full name of inventor: **Haejoo Lee**

Inventor's signature: _____



Date: : July /30/ 2013 _____