

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>Andrew H. Vyrros</td> <td>02/06/2012</td> </tr> <tr> <td>Justin N. Wood</td> <td>09/01/2011</td> </tr> <tr> <td>Mitch Adler</td> <td>02/14/2012</td> </tr> <tr> <td>Joe S. Abuan</td> <td>01/23/2012</td> </tr> <tr> <td>Conrad Sauerwald</td> <td>02/14/2012</td> </tr> <tr> <td>Hyeonkuk Jeong</td> <td>01/23/2012</td> </tr> <tr> <td>Roberto Garcia</td> <td>01/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Andrew H. Vyrros	02/06/2012	Justin N. Wood	09/01/2011	Mitch Adler	02/14/2012	Joe S. Abuan	01/23/2012	Conrad Sauerwald	02/14/2012	Hyeonkuk Jeong	01/23/2012	Roberto Garcia	01/23/2012
Name	Execution Date																
Andrew H. Vyrros	02/06/2012																
Justin N. Wood	09/01/2011																
Mitch Adler	02/14/2012																
Joe S. Abuan	01/23/2012																
Conrad Sauerwald	02/14/2012																
Hyeonkuk Jeong	01/23/2012																
Roberto Garcia	01/23/2012																
RECEIVING PARTY DATA																	
<table border="1"> <tr> <td>Name:</td> <td>Apple Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1 Infinite Loop</td> </tr> <tr> <td>City:</td> <td>Cupertino</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95014</td> </tr> </table>		Name:	Apple Inc.	Street Address:	1 Infinite Loop	City:	Cupertino	State/Country:	CALIFORNIA	Postal Code:	95014						
Name:	Apple Inc.																
Street Address:	1 Infinite Loop																
City:	Cupertino																
State/Country:	CALIFORNIA																
Postal Code:	95014																
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>13410232</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13410232												
Property Type	Number																
Application Number:	13410232																
CORRESPONDENCE DATA																	
Fax Number:	(408)720-8383																
Phone:	4087028300																
Email:	carla_vignola@bstz.com																
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.																	
Correspondent Name:	BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, LLP																
Address Line 1:	1279 Oakmead Parkway																
Address Line 4:	Sunnyvale, CALIFORNIA 94085																
ATTORNEY DOCKET NUMBER:	4860P11015																

CH \$40.00 13410232

NAME OF SUBMITTER:

Thomas C. Webster, Reg. No. 46,154

Total Attachments: 8

source=4860P11015_ASSIGNMENT#page1.tif

source=4860P11015_ASSIGNMENT#page2.tif

source=4860P11015_ASSIGNMENT#page3.tif

source=4860P11015_ASSIGNMENT#page4.tif

source=4860P11015_ASSIGNMENT#page5.tif

source=4860P11015_ASSIGNMENT#page6.tif

source=4860P11015_ASSIGNMENT#page7.tif

source=4860P11015_ASSIGNMENT#page8.tif

ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 4860P11015

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Andrew H. Vyrros, Justin N. Wood, Mitch Adler, Joe S. Abuan, Conrad Sauerwald, Hyeonkuk Jeong, Roberto Garcia, hereby sell, assign, and transfer to Apple Inc., a corporation of California,
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at 1 Infinite Loop, Cupertino, CA, 95014,

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

**APPARATUS AND METHOD FOR MANAGING PEER-TO-PEER CONNECTIONS
BETWEEN DIFFERENT SERVICE PROVIDERS**

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 13/410,232 filed 03/01/2012,

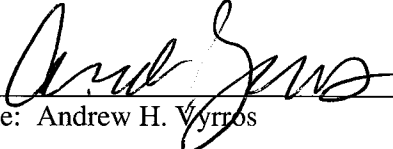
and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining

proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

2/6, 2012 
Date Name: Andrew H. Vyrros

_____, 20____
Date Name: Justin N. Wood

_____, 20____
Date Name: Mitch Adler

_____, 20____
Date Name: Joe S. Abuan

_____, 20____
Date Name: Conrad Sauerwald

_____, 20____
Date Name: Hyeonkuk Jeong

_____, 20____
Date Name: Roberto Garcia

Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040
(408) 720-8300

ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 4860P11015

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Andrew H. Vyrros, Justin N. Wood, Mitch Adler, Joe S. Abuan, Conrad Sauerwald, Hyeonkuk Jeong, Roberto Garcia,
hereby sell, assign, and transfer to Apple Inc.,

a corporation of California,

(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at 1 Infinite Loop, Cupertino, CA, 95014,

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

**APPARATUS AND METHOD FOR MANAGING PEER-TO-PEER CONNECTIONS
BETWEEN DIFFERENT SERVICE PROVIDERS**

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 13/410,232 filed 03/01/2012,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining

proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

_____, 20____
Date

Name: Andrew H. Vyrros

9/1, 2011
Date

Name: Justin N. Wood

_____, 20____
Date

Name: Mitch Adler

_____, 20____
Date

Name: Joe S. Abuan

_____, 20____
Date

Name: Conrad Sauerwald

_____, 20____
Date

Name: Hyeonkuk Jeong

_____, 20____
Date

Name: Roberto Garcia

Assignment Document Return Address:

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040
(408) 720-8300

ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 4860P11015

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Andrew H. Vyrros, Justin N. Wood, Mitch Adler, Joe S. Abuan, Conrad Sauerwald, Hyeonkuk Jeong, Roberto Garcia,
hereby sell, assign, and transfer to Apple Inc.,
a corporation of California,
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)
having a principal place of business at 1 Infinite Loop, Cupertino, CA, 95014,

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

**APPARATUS AND METHOD FOR MANAGING PEER-TO-PEER CONNECTIONS
BETWEEN DIFFERENT SERVICE PROVIDERS**

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 13/410,232 filed 03/01/2012,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining

proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

_____, 20____
Date Name: Andrew H. Vyrros

_____, 20____
Date Name: Justin N. Wood

FEB 14, 2012
Date Name: Mitch Adler

_____, 20____
Date Name: Joe S. Abuan

2/14, 2012
Date Name: Conrad Sauerwald

_____, 20____
Date Name: Hyeonkuk Jeong

_____, 20____
Date Name: Roberto Garcia

Assignment Document Return Address:

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040
(408) 720-8300

ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 4860P11015

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Andrew H. Vyrros, Justin N. Wood, Mitch Adler, Joe S. Abuan, Conrad Sauerwald, Hyeonkuk Jeong, Roberto Garcia,
hereby sell, assign, and transfer to Apple Inc.,
a corporation of California,
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at 1 Infinite Loop, Cupertino, CA, 95014,

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

**APPARATUS AND METHOD FOR MANAGING PEER-TO-PEER CONNECTIONS
BETWEEN DIFFERENT SERVICE PROVIDERS**

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 13/410,232 filed 03/01/2012,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining

proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

_____, 20____
Date Name: Andrew H. Vyrros

_____, 20____
Date Name: Justin N. Wood

_____, 20____
Date Name: Mitch Adler

1/27, 2012
Date Name: Joe S. Abuan

_____, 20____
Date Name: Conrad Sauerwald

1/23, 2012
Date Name: Hyeonkuk Jeong

1/23, 2012
Date Name: Roberto Garcia

Assignment Document Return Address:

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040
(408) 720-8300