

PATENT ASSIGNMENT

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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>Rory L. P. McGuire</td><td>01/12/2010</td></tr><tr><td>Michael Van Milligan</td><td>01/12/2010</td></tr><tr><td>Jason Conn</td><td>01/13/2010</td></tr><tr><td>Joshua Graessley</td><td>01/13/2010</td></tr><tr><td>Augustin Prats</td><td>01/12/2010</td></tr><tr><td>Brian Tucker</td><td>01/12/2010</td></tr></tbody></table>	Name	Execution Date	Rory L. P. McGuire	01/12/2010	Michael Van Milligan	01/12/2010	Jason Conn	01/13/2010	Joshua Graessley	01/13/2010	Augustin Prats	01/12/2010	Brian Tucker	01/12/2010	
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RECEIVING PARTY DATA															
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>12687814</td></tr></tbody></table>	Property Type	Number	Application Number:	12687814											
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Application Number:	12687814														
CORRESPONDENCE DATA															
Fax Number: (408)720-8383 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
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NAME OF SUBMITTER:	Kevin G. Shao														

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PATENT
REEL: 023790 FRAME: 0540

Total Attachments: 2

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ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 4860P8397

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned;

**Rory L. P. McGuire, Michael Van Milligan, Jason Conn, Joshua Graessley, Augustin Prats, and
Brian Tucker**

hereby sell, assign, and transfer to

Apple Inc.

a corporation of California, having a principal place of business at 1 Infinite Loop, Cupertino, California 945014, United States ("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 may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled

EFFICIENT SERVICE DISCOVERY FOR PEER-TO-PEER NETWORKING DEVICES

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 _____ filed _____.

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:

JAN 12, 2010
Date

Rory L. P. McGuire
Signature

Rory L. P. McGuire
Printed/Typed Name

JAN 12, 2010
Date

Michael Van Milligan
Signature

Michael Van Milligan
Printed/Typed Name

JAN 13, 2010
Date

Jason Conn
Signature

Jason Conn
Printed/Typed Name

Jan 13, 2010
Date

Joshua Graessley
Signature

Joshua Graessley
Printed/Typed Name

Jan 12, 2010
Date

Augustin Prats
Signature

Augustin Prats
Printed/Typed Name

1-12, 2010
Date

Brian Tucker
Signature

Brian Tucker
Printed/Typed Name