

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>Alejandro Rodriguez</td><td>05/15/2005</td></tr><tr><td>John D. Joannopoulos</td><td>05/15/2008</td></tr><tr><td>Steven G. Johnson</td><td>06/13/2008</td></tr><tr><td>Marin Soljacic</td><td>05/15/2008</td></tr></tbody></table>		Name	Execution Date	Alejandro Rodriguez	05/15/2005	John D. Joannopoulos	05/15/2008	Steven G. Johnson	06/13/2008	Marin Soljacic	05/15/2008
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Massachusetts Institute of Technology</td></tr><tr><td>Street Address:</td><td>77 Massachusetts Avenue</td></tr><tr><td>City:</td><td>Cambridge</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02139</td></tr></table>		Name:	Massachusetts Institute of Technology	Street Address:	77 Massachusetts Avenue	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139
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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>12030459</td></tr></tbody></table>		Property Type	Number	Application Number:	12030459						
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Application Number:	12030459										
CORRESPONDENCE DATA											
Fax Number: (617)426-2275 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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NAME OF SUBMITTER:	Matthew E. Connors										
Total Attachments: 2											

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REEL: 021091 FRAME: 0320

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ASSIGNMENT

Know all men by these presents that:

WHEREAS we, Alejandro Rodriguez
 124 Cambridge Street, #8
 Cambridge, MA 02141

 and John D. Joannopoulos
 64 Douglas Road
 Belmont, MA 02478

 and Steven G. Johnson
 988 Memorial Drive, Apt. 287
 Cambridge, MA 02138

 and Marin Soljacic
 44 Westlund Road
 Belmont, MA 02478

have made an invention for

**EFFICIENT HARMONIC GENERATION AND FREQUENCY CONVERSION IN
MULTI-MODE CAVITIES**

described in the application filed in the United States Patent Office on February 13, 2008, as Serial No. 12/030,459. This application claims priority under 35 USC §119(e) from United States Provisional Patent Application Serial No. 60/889,566, filed February 13, 2007.

WHEREAS Massachusetts Institute of Technology, a corporation duly organized and existing under the laws of Massachusetts and having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the said invention, the said application, all inventions disclosed in said application and any and all Letters Patent of the United States and of all other countries which may be granted for the said invention or inventions, or any of them;

NOW, THEREFORE, for good and valuable consideration provided by said Assignee, the receipt whereof is hereby acknowledged, we do hereby sell, assign and transfer to the said Assignee the entire right, title and interest in and to the said invention, inventions and application, including all priority rights arising therefrom, all inventions disclosed in said application, and any and all Letters Patent of the United States, and of all other countries, together with the right to apply for such Letters Patent, which may be granted for the said invention, inventions or any of them,

TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said Letters Patent, to said

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

AND we hereby authorize and request the Commissioner of Patents of the United States and the appropriate officers of all foreign patent offices to issue any and all Letters Patent which may be granted on the said application or applications above referred to, or for the said invention, or any of them, to the said Assignee in accordance with the terms of this instrument.

AND we hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignee fully to secure to said Assignee its interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND we further covenant and agree that we will at any time upon request communicate to the said Assignee, its successors, assigns or other legal representatives, any facts known to us relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND we hereby covenant for ourselves and our legal representatives that we have not hitherto assigned or granted any license to make, use or sell said invention, and that we will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on the dates below.

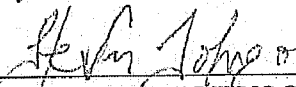
05/15/08
Date


ALEJANDRO RODRIGUEZ


05/15/08
Date


JOHN D. JOANNOPOULOS

06/23/08
Date


STEVEN G. JOHNSON

15th MAY 08
Date


MARIN SOLJACIC