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05-24-2004



102751385

OR COPY(IES) THEREOF.

1. NAME OF CONVEYING PARTY(IES)

Marin Soljacic
John D. Joannopoulos
Lene Vestergaard Hau

Additional name(s) of conveying party(ies) attached? No

2. NAME(S) AND ADDRESS(ES) OF RECEIVING PARTY(IES)

Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, Massachusetts 02139
and
President and Fellows of Harvard College
1350 Massachusetts Avenue
Cambridge, MA 02138

Additional name(s) of receiving party(ies) attached? No

3. NATURE OF CONVEYANCE

- ☒ Assignment
☐ Security Agreement
☐ Merger
☐ Change of Name
☐ Other

Execution Date:

04/23/2004, 05/13/2004

4. APPLICATION NUMBER(S) OR PATENT NUMBER(S)

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 10/726,454

B. Patent No(s):

Additional numbers attached? No

5. NAME AND ADDRESS OF PARTY TO WHOM
CORRESPONDENCE CONCERNING DOCUMENT
SHOULD BE DIRECTED:Matthew E. Connors
Gauthier & Connors LLP
225 Franklin Street
Boston, Massachusetts 02110
(617) 426-9180, Extension 1126. TOTAL NUMBER OF APPLICATIONS
AND PATENTS INVOLVED: 1

7. TOTAL FEE DUE: \$40.00 (Enclosed)

If any additional fee(s) are due, the Commissioner is hereby
authorized to charge the Deposit Order Account noted in item 8.

8. DEPOSIT ACCOUNT NUMBER: 19-0079

9. STATEMENT AND SIGNATURE

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy
of the original document.

Matthew E. Connors

Name of Person Signing

Signature

Date

5/17/04

Total number of pages including cover sheet, attachments, and document: 4

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being
deposited with the United States Postal Service on the date shown below with sufficient postage as first
class mail in an envelope addressed to the Mail Stop Assignment Recordation Services, Director of the
United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

Emily C. Porell

Date:

05/17/2004

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PATENT
REEL: 015344 FRAME: 0374

ASSIGNMENT

Know all men by these presents

WHEREAS we, Marin Soljacic
 67 Fairfax Street
 Somerville, MA 02144
 and
 John D. Joannopoulos
 64 Douglas Road
 Belmont, MA 02478

have made an invention for

**USING ELECTRO-MAGNETICALLY INDUCED TRANSPARENCY IN PHOTONIC
CRYSTAL CAVITIES TO OBTAIN HUGE NON-LINEAR EFFECTS**

described in the application filed with the United States Patent and Trademark Office on December 3, 2003, as Serial No. 10/726,454 which claims priority under 35 USC §119(e) from United States Provisional Patent Application Serial No. 60/130,957, filed December 4, 2002; and

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 themselves, their successors and assigns, all inclusively hereinafter referred to as the Assignee, are desirous of acquiring equal rights, 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

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its successors and assigns, to its and their own use and behoove 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