

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Fabien Sorin	11/14/2011
Nicholas D. Orf	10/22/2011
Sylvain Danto	10/18/2011
Yoel Fink	11/15/2011
John D. Joannopoulos	11/07/2011
Ofer Shapira	11/07/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Massachusetts Institute of Technology
<b>Street Address:</b>	77 Massachusetts Avenue
<b>City:</b>	Cambridge
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13271334
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)258-6790
<b>Phone:</b>	617-253-6966
<b>Email:</b>	mitdocket@mit.edu
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Correspondent Name:</b>	Sam Pasternack
<b>Address Line 1:</b>	77 Massachusetts Ave.
<b>Address Line 2:</b>	NE18-501
<b>Address Line 4:</b>	Cambridge, MASSACHUSETTS 02139
<b>ATTORNEY DOCKET NUMBER:</b>	14718.111376

OP \$40.00 13271334

**501740799**

**PATENT**  
**REEL: 027309 FRAME: 0922**

NAME OF SUBMITTER:

Sam Pasternack

Total Attachments: 8

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## ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned, Fabien Sorin of 110 Pleasant Street, Cambridge, MA 02139, Nicholas D. Orf of 11 Adelaide Road Apt. 4, Somerville, MA 02143, Sylvain Danto of Village Green – Unit 143, 1108 Tiger Blvs., Clemson, SC 29631, Yoel Fink of 100 Columbia Street Unit 2, Brookline, MA 02446, John D. Joannopoulos of 64 Douglas Road, Belmont, MA 02478 and Ofer Shapira of 88 Hancock St., Cambridge, MA 02139 hereby

Sells, assigns and transfers to Massachusetts Institute of Technology, having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts, 02139, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, his/her entire right, title and interest for the United States and all foreign countries; in and to any and all inventions which are disclosed in the application for United States Letters Patent "FIBER DRAW SYNTHESIS", and given serial number 13/271334 (Attorney Docket No.: 14718.111376) in and to said application and all divisional, continuing, substitute, renewal, reissue, reexamination or other application for Letters Patent which has been or shall be filed in the United States or any foreign country on any of said inventions, and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

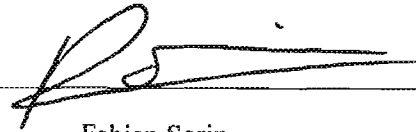
Agrees that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name and when requested, without charge to but at the expense of said ASSIGNEE, agrees to carry out in good faith the intent and purpose of this Assignment by executing all divisional, continuing, substitute, renewal, reissue, reexamination and all other patent applications on any and all said inventions; by executing all rightful declarations, oaths, assignments and other papers; by communicating to said ASSIGNEE all facts known to him/her relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE. Each of the undersigned also hereby appoints ASSIGNEE as its common agent for purposes of prosecuting international patent applications and any material patent applications for which such common agency is recognized.

Hereby requests the Director of the United States Patent and Trademark Office and non-U.S. patent authorities to issue said Letters Patent to said ASSIGNEE.

Covenants with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by him/her, and that full right to convey the same as herein expressed is possessed by him/her.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

14<sup>th</sup> Nov. 2011



Date

Inventor: Fabien Sorin

Address:

~~110 Pleasant Street~~  
~~Cambridge, MA 02139~~  
8 impasse de Watigny

Citizenship: France

75012 Paris  
France

STATE/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_ :


On this \_\_\_ day of \_\_\_\_\_, 20\_\_\_, before me, the undersigned notary public, personally appeared \_\_\_\_\_, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL \_\_\_\_\_

My commission expires \_\_\_\_\_

14/11/2011

  
ELIN SÖNDERGÅRD

14.11.2011  
Sergey Grachev  


October 22, 2011

Nicholas D Orf

Date

Inventor:

Nicholas D/Orf

Address:

11 Adelaide Road Apt. 4  
Somerville, MA 02143

Citizenship:

United States of America

STATE/Commonwealth of Massachusetts

COUNTY OF Middlesex :

On this 22 day of October, 2011, before me, the undersigned notary public, personally appeared Nicholas D Orf, proved to me through satisfactory evidence of identification, which were ma, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL \_\_\_\_\_

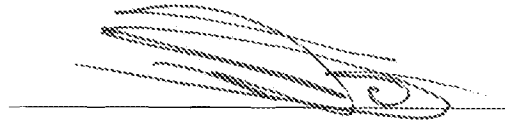
My commission expires May 10 2013



**Adrienne Bailey**  
NOTARY PUBLIC  
Commonwealth of Massachusetts  
My Commission Expires May 10, 2013

Adrienne Bailey

October 18, 2011



Date

Inventor:

Sylvain Danto

Address:

Village Green - Unit 143  
1108 Tiger Blvs.  
Clemson, SC 29631

Citizenship:

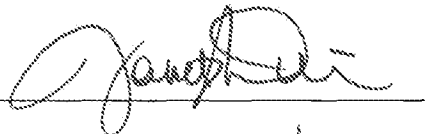
France

STATE/COMMONWEALTH OF South Carolina

COUNTY OF Anderson :

On this 18<sup>th</sup> day of October, 2011, before me, the undersigned notary public, personally appeared Sylvain Danto, proved to me through satisfactory evidence of identification, which were S.C. Drivers License, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL



My commission expires Oct. 4, 2017

11/15/2011  
Date

[Signature]  
Inventor: Yoel Fink

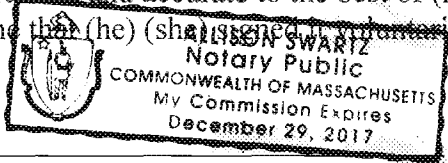
Address: 100 Columbia Street Unit 2  
Brookline, MA 02446

Citizenship: United States of America

STATE/COMMONWEALTH OF MASS.

COUNTY OF MIDDLESEX :

On this 15 day of November, 2011, before me, the undersigned notary public, personally appeared Yoel Fink, proved to me through satisfactory evidence of identification, which were MA Drivers license, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) (it) voluntarily for its stated purpose.



SEAL

[Signature]

My commission expires 12/29/2017



7 Nov 2011

[Signature]

Date

Inventor:

John D. Joannopoulos

Address:

64 Douglas Road  
Belmont, MA 02478

Citizenship:

United States of America

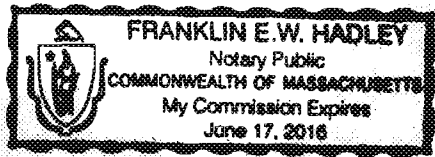
STATE/Commonwealth of Massachusetts

COUNTY OF Middlesex :

On this 7 day of November, 2011, before me, the undersigned notary public, personally appeared John D. Joannopoulos, proved to me through satisfactory evidence of identification, which were personal prior knowledge to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL [Signature]

My commission expires 17 June 2016



11/07/2011

Oshapira

Date

Inventor:

Ofer Shapira

Address:

88 Hancock St.  
Cambridge, MA 02139

Citizenship:

Israel

STATE/COMMONWEALTH OF Massachusetts

COUNTY OF Middlesex :

On this 7 day of November, 2011, before me, the undersigned notary public, personally appeared Ofer Shapira, proved to me through satisfactory evidence of identification, which were personal prior knowledge of identity, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL [Signature]

My commission expires 17 June 2016

