

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>Rajendra K. Krishnaswamy</td> <td>07/19/2013</td> </tr> <tr> <td>johan van Walsem</td> <td>06/14/2013</td> </tr> <tr> <td>Oliver P. Peoples</td> <td>07/19/2013</td> </tr> <tr> <td>Yossef Shabtai</td> <td>06/14/2013</td> </tr> <tr> <td>Allen R. Padwa</td> <td>07/19/2013</td> </tr> </tbody> </table>		Name	Execution Date	Rajendra K. Krishnaswamy	07/19/2013	johan van Walsem	06/14/2013	Oliver P. Peoples	07/19/2013	Yossef Shabtai	06/14/2013	Allen R. Padwa	07/19/2013
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RECEIVING PARTY DATA													
Name:	Metabolix, Inc.												
Street Address:	21 Erie Street												
City:	Cambridge												
State/Country:	MASSACHUSETTS												
Postal Code:	02139												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US2013044367</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US2013044367								
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PCT Number:	US2013044367												
CORRESPONDENCE DATA													
Fax Number:	6176824726												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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Correspondent Name:	Andrea Masciari												
Address Line 1:	21 Erie Street												
Address Line 4:	Cambridge, MASSACHUSETTS 02139												
ATTORNEY DOCKET NUMBER:	MBX 102 WO_2												
NAME OF SUBMITTER:	Andrea Masciari												
Signature:	/Andrea Masciari/												

CH \$40.00 US2013044367

Date:

07/26/2013

Total Attachments: 5

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JointASSIGNMENT

WHEREAS, we, **Rajendra K. Krishnaswamy, Johan van Walsem, Oliver P. Peoples, Yossef Shabtai and Allen R. Padwa**, have invented a certain improvement in **Low Glass Transition Polyhydroxyalkanoates for Modification of BioDegradable Polymers** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. [], filed [];
- the specification of which is a Patent Cooperation Treaty Application, International Application No. PCT/US2013/044367, filed 05 June 2013, which designates the United States of America;
- which was patented under United States Patent No. [].

WHEREAS, **Metabolix, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at **21 Erie Street, Cambridge, Massachusetts 02139** desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Rajendra K. Krishnaswamy
Rajendra K. Krishnaswamy

State/Commonwealth of PENNSYLVANIA
County of ALLEGHENY

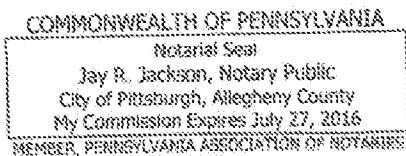
On this 19 day of July 2013, before me, the undersigned notary public, personally appeared Rajendra K. Krishnaswamy,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

MA D.L.

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public J. R. Jackson
Jay R. Jackson (print name)
My Commission expires 7/27/2016

Inventor's Signature: [Signature]
Johan van Walsern

State/Commonwealth
of Massachusetts
County of Middlesex

On this 14th day of June 2013, before me, the undersigned notary public, personally appeared Johan van Walsern,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was



to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

Notary Public [Signature]
Andrea M. Secca Masciaci (print name)
My Commission expires 03/31/2014

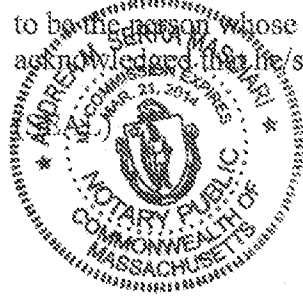
Inventor's Signature: [Signature]
Oliver P. Peoples

State/Commonwealth
of Massachusetts
County of Middlesex

On this 19th day of July 2013, before me, the undersigned notary public, personally appeared Oliver P. Peoples,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Notary Public [Signature]
Andrea M. Secca Masciaci (print name)
My Commission expires 03/31/2014

Inventor's Signature: _____

Yossef Shabtai

State/Commonwealth
of _____
County of _____

On this _____ day of _____ 20____, before me, the undersigned notary
public, personally appeared Yossef Shabtai,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public _____

(print name)

My Commission expires ____/____/____

Inventor's Signature: Allen R. Padwa

Allen R. Padwa

State/Commonwealth
of Massachusetts
County of Middlesex

On this 19th day of July 2013, before me, the undersigned notary
public, personally appeared Allen R. Padwa,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

MA Drivers license

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public Deborah A. Isensee
Deborah A. Isensee (print name)

My Commission expires _____ / _____ / _____
DEBORAH A. ISENSEE
Notary Public



Commonwealth of Massachusetts
My Commission Expires
April 11, 2019

Inventor's Signature: *Yossef Shabtai*

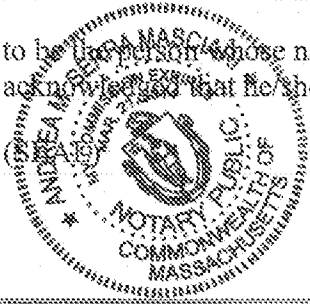
Yossef Shabtai

State/Commonwealth
of Massachusetts
County of Middlesex

On this 14th day of June 2013, before me, the undersigned notary public, personally appeared Yossef Shabtai,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Notary Public *Andrea M. Serra Musciani*
Andrea M. Serra Musciani (print name)
 My Commission expires 03/21/2014

Inventor's Signature: _____

Allen R. Padwa

State/Commonwealth
of _____
County of _____

On this _____ day of _____ 20____, before me, the undersigned notary public, personally appeared Allen R. Padwa,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Notary Public _____
 _____ (print name)
 My Commission expires ____/____/____