

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>Aaron Adriaan Winkler</td><td>02/06/2007</td></tr><tr><td>Sipko Maarten Kuyper</td><td>01/25/2007</td></tr><tr><td>Wilhelmus Theodorus Antonius Maria De Laat</td><td>01/14/2007</td></tr><tr><td>Johannes Pieter Van Dijken</td><td>02/20/2007</td></tr><tr><td>Jacobus Thomas Pronk</td><td>02/23/2007</td></tr></tbody></table>	Name	Execution Date	Aaron Adriaan Winkler	02/06/2007	Sipko Maarten Kuyper	01/25/2007	Wilhelmus Theodorus Antonius Maria De Laat	01/14/2007	Johannes Pieter Van Dijken	02/20/2007	Jacobus Thomas Pronk	02/23/2007	
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Jacobus Thomas Pronk	02/23/2007												
RECEIVING PARTY DATA													
Name:	Technische Universiteit Delft, a corporation of Delft, the Netherlands												
Street Address:	Julianalaan 134												
Internal Address:	P.O. Box 5												
City:	NL-2628 BL Delft												
State/Country:	NETHERLANDS												
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>11632644</td></tr></tbody></table>	Property Type	Number	Application Number:	11632644									
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CORRESPONDENCE DATA													
Fax Number: (202)737-3528 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 2026285197													
Email: ahenry@browdyneimark.com													
Correspondent Name: Browdy and Neimark PLLC													
Address Line 1: 624 Ninth Street NW													
Address Line 2: Suite 300													
Address Line 4: Washington, DISTRICT OF COLUMBIA 20001-5303													
ATTORNEY DOCKET NUMBER:	WINKLER=11												
NAME OF SUBMITTER:	Shmuel Livnat												

OP \$40.00 11632644

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PATENT  
REEL: 021254 FRAME: 0650

Total Attachments: 2

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SOLE/JOINT INVENTION  
(U.S. Rights only)

## ASSIGNMENT

WHEREAS, I/WE:

**WINKLER, Aaron Adriaan**

a citizen of  
the Netherlands

residing at  
Purperreigerstraat 28  
NL-2492 TD DEN HAAG  
the Netherlands

**KUYPER, Sipko Maarten**

a citizen of  
the Netherlands

residing at  
Zuilen van Nijveltstraat 3  
NL-2613 CW DELFT  
the Netherlands

**DE LAAT, Wilhelmus Theodorus Antonius Maria**

a citizen of  
the Netherlands

residing at  
Loopschansstraat 54  
NL-4817 KW BREDA  
the Netherlands

**VAN DIJKEN, Johannes Pieter**

a citizen of  
the Netherlands

residing at  
Spotvogellaan 38  
NL-2261 CP LEIDSCHENDAM  
the Netherlands

**PRONK, Jacobus Thomas**

a citizen of  
the Netherlands

residing at  
Bark 5  
NL-2636 DD SCHIPLUIDEN  
the Netherlands

as assignor(s), have made an invention entitled:

**Metabolic engineering of xylose fermenting eukaryotic cells**

for which I/we have:

- (a) filed an application for United States Letters Patent on  
(Serial No.
- (b) executed an application for United States Letters Patent on  
and  
respectively; and

national phase of international application PCT/NL2005/000516 filed 15 July 2005

WHEREAS, **Technische Universiteit Delft**

a corporation of Delft, the Netherlands  
whose post office address is:

Julianalaan 134, P.O. Box 5  
NL-2628 BL DELFT  
the Netherlands

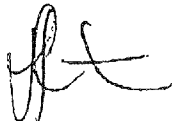

as assignee, is desirous of securing the entire right, title, and interest in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/we, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/we hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

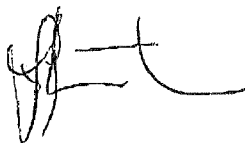
IN TESTIMONY WHEREOF, I/we have hereunto set my/our hand(s).

Witness: S. J. Nühn

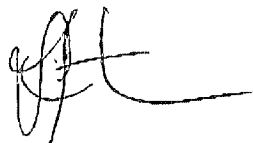
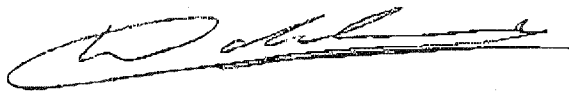
(Signature of first or sole assignor)  
Date 6 February 2007

Witness: S. J. Nühn



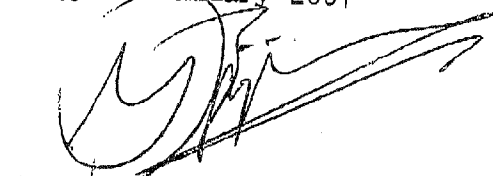

(Signature of second assignor)  
Date 25 January 2007

Witness: S. J. Nühn

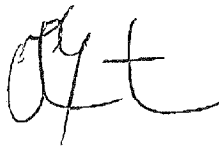
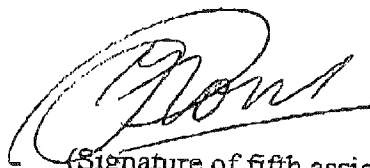
(Signature of third assignor)  
Date 14 January 2007

Witness: S. J. Nühn

(Signature of fourth assignor)  
Date 20 February 2007

Witness: S. J. Nühn

(Signature of fifth assignor)  
Date 23 February 2007