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2. Name and address of receiving party(ies) Nature Works LLC Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 05/30/2008 Assignment Security Agreement Government Interest Assignment Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): A. Patent Application No.(s) PCT/US2004/013592 2. Name and address of receiving party(ies) Name: United States Department of Energy Internal Address: City: Washington State: D.C. Country: USA Zip: 20585 Additional name(s) & address(es) attached? Yes No B. Patent No.(s)	PSL RECORDATION FO	S ONLY 3-103,012
Nature Works LLC Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 05/30/2008 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): A Patent Application No.(s) PCT/US2004/013592 Name: United States Department of Energy. Internal Address: Street Address: 1000 Independence Ave., S.W City: Washington State: D.C. Country: USA Zip: 20585 Additional name(s) & address(es) attached? Yes No B. Patent No.(s)	To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
Internal Address: Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 05/30/2008 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? Yes No 4. Application or patent number(s): A. Patent Application No.(s) PCT/US2004/013592 Internal Address: Internal Address Internal Address Internal Address Internal Address Internal Address In	1. Name of conveying party(ies)	
Additional name(s) of conveying party(les) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 05/30/2008 Assignment	Nature Works LLC	
Street Address: 1000 Independence Ave., S.VV Execution Date(s) 05/30/2008 Assignment		Internal Address:
Street Address: 1000 Independence Ave., S.VV Execution Date(s) 05/30/2008 Assignment	Additional name(s) of conveying party(ies) attached? Yes 🗸 No	
Assignment	3. Nature of conveyance/Execution Date(s):	Street Address: 1000 Independence Ave., S.W
Security Agreement ☐ Change of Name ☐ Joint Research Agreement ☐ Government Interest Assignment ☐ Executive Order 9424, Confirmatory License ☐ Other ☐ Additional name(s) & address(es) attached? ☐ Yes ☑ No 4. Application or patent number(s): ☐ This document is being filed together with a new application. A. Patent Application No.(s) PCT/US2004/013592 ☐ City: Washington State: D.C. Country: USA		
Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? Yes ✓ No 4. Application or patent number(s): A. Patent Application No.(s) PCT/US2004/013592 State: D.C. Country: USA Zip: 20585 Additional name(s) & address(es) attached? Yes ✓ No B. Patent No.(s)		City: Washington
Government Interest Assignment Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? Yes No Application or patent number(s): A. Patent Application No.(s) PCT/US2004/013592 Country: USA Zip: 20585 Additional name(s) & address(es) attached? Yes No Additional name(s) & address(es) attached? Yes No B. Patent No.(s)		<u>-</u>
Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? Yes No Application or patent number(s): A. Patent Application No.(s) PCT/US2004/013592 Country: USA Additional name(s) & address(es) attached? Yes No B. Patent No.(s)	·	State: D.C.
Additional name(s) & address(es) attached? Yes No 4. Application or patent number(s): A. Patent Application No.(s) PCT/US2004/013592 Additional name(s) & address(es) attached? Yes No B. Patent No.(s)		Country: USA Zip: 20585
4. Application or patent number(s): A. Patent Application No.(s) PCT/US2004/013592 This document is being filed together with a new application. B. Patent No.(s)		Vec VNn
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Additional numbers Attached? (IVEC 14/INO	Addison of property of	techad2 Type VNo
5. Name and address to whom correspondence 6. Total number of applications and patents		
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Name: Mark P. Dvorscak 7. Total fee (37 CFR 1.21(h) & 3.41) \$	Name:Mark P. Dvorscak	7. Total fee (37 CFR 1.21(h) & 3.41) \$
Internal Address:U. S. Dept. of Energy, IPLD Authorized to be charged by credit card	Internal Address:U. S. Dept. of Energy, IPLD	
Authorized to be charged to deposit account		Authorized to be charged to deposit account
Street Address: 9800 S. Cass Ave Enclosed	Street Address: 9800 S. Cass Ave	Enclosed
✓ None required (government interest not affecting title)		None required (government interest not affecting title)
City: Argonne 8. Payment Information	City: Argonne	8. Payment Information
State: IL Zip:60439 a. Credit Card Last 4 Numbers Expiration Date	_	
Phone Number: 630-252-2393 b. Deposit Account Number	Phone Number: 630-252-2393	h Donosit Assount Number
Fax Number: 630-252-2779	Fax Number: <u>630-252-2779</u>	
Email Address: Authorized User Name	Email Address:	Authorized User Name
9. Signature: 9/11/08		
Signature Date	Signature	
Michael J. Dobbs #58.093 Name of Person Signing Total number of pages including cover sheet, attachments, and documents:	Michael J. Dobbs #58.093 Name of Person Signing	

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 021519 FRAME: 0037

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Title of Invention: Genetically Modified Yeast Species and Fermentation Processes Using Genetically Modified Yeast Inventor(s): Vincet Raigarhia, et al Patent Application Serial No.: PCT/US2004/013592 Filing Date: November 18, 2004 Issued Date:__ Patent Number:___ Name of Contractor (i.e. Contractor, Subcontractor, Grant, or Cooperative Agreement, as applicable): Nature Works LLC DOE Contract No.(i.e. Contract, Subcontract, Grant, or Cooperative Agreement, as applicable): DE-FC36-02ID14349 Contractor Docket No.: 1182A DOE Case No.: S-103.612 The Contractor has reported the above-identified invention as a Subject Invention to DOE and has elected to retain title thereto. Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up, worldwide license in this subject invention, patent application and any resulting patent, including any continuation, divisional, reissue, or supplemental application thereof, to practice or to have practiced for or on behalf of the United States throughout the world; and of all other rights acquired by the Government by the patent rights clause in the above-identified contract. It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor, or from asserting any other rights of the Government with respect to the above-identified subject invention. The Government is hereby granted an irrevocable power to inspect and make copies of the aboveidentified patent application. Signed this 30 day of MAT , 2008. Nature Works, LLC. Contractor Name (Typed) CHRISTOMER M. RYAN, CHIEF TECHNOLOGY OFFICER Official's Name and Title (typed) 15805 MINUS TOURS BLUD MUDETONICS MN F5345 Business Address

> PATENT REEL: 021519,FRAME, Q038 ***

RECORDED: 09/11/2008