

PATENT ASSIGNMENT COVER SHEET

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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>RANDY D CORTRIGHT</td> <td>09/27/2013</td> </tr> <tr> <td>JOHN KANIA</td> <td>10/15/2013</td> </tr> <tr> <td>ELIZABETH WOODS</td> <td>09/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	RANDY D CORTRIGHT	09/27/2013	JOHN KANIA	10/15/2013	ELIZABETH WOODS	09/26/2013		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>VIRENT, INC.</td> </tr> <tr> <td>Street Address:</td> <td>3571 ANDERSON STREET</td> </tr> <tr> <td>City:</td> <td>MADISON</td> </tr> <tr> <td>State/Country:</td> <td>WISCONSIN</td> </tr> <tr> <td>Postal Code:</td> <td>53704</td> </tr> </table>		Name:	VIRENT, INC.	Street Address:	3571 ANDERSON STREET	City:	MADISON	State/Country:	WISCONSIN	Postal Code:	53704
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number: Email: sara.kerstein@quarles.com <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> Correspondent Name: SARA J. KERSTEIN Address Line 1: 411 E. WISCONSIN AVENUE Address Line 2: QUARLES & BRADY, LLP Address Line 4: MILWAUKEE, WISCONSIN 53202											
ATTORNEY DOCKET NUMBER:	129550.00143										
NAME OF SUBMITTER:	SARA J KERSTEIN										
Signature:	/Sara J. Kerstein/										
Date:	12/02/2013										

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Total Attachments: 4

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REEL: 031696 FRAME: 0820

ASSIGNMENT

WHEREAS, we, MING QIAO of PEWAUKEE, WISCONSIN; RANDY D. CORTRIGHT of MADISON, WISCONSIN; JOHN KANIA of MADISON, WISCONSIN; and ELIZABETH WOODS of MIDDLETON, WISCONSIN, have made certain inventions which are described in an application for Letters Patent of the United States entitled REDUCTIVE BIOMASS LIQUIFICATION for U.S. Application No. 13/339,994 filed DECEMBER 29, 2011, and

WHEREAS, VIRENT, INC. (hereinafter referred to as said Company), a DELAWARE CORPORATION, having a place of business at, 3571 ANDERSON STREET, MADISON, WISCONSIN 53704, is desirous of acquiring the entire interest in said inventions throughout the United States of America and the territories thereof, for all other countries and under all international agreements,

NOW THEREFORE, for and in consideration of One Dollar (\$1.00) in hand paid, and other good and valuable consideration, receipt whereof is hereby acknowledged, we hereby sell, assign, and transfer unto said Company, its successors and assigns, the entire right, title and interest throughout the United States of America and the territories thereof and for all foreign countries, in and to said inventions, the aforesaid application, all prior, related United States provisional applications, and all other applications hereafter filed in the United States or any other country based in whole or in part on said inventions, and all Letters Patent granted upon said application by the United States or any other country, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Company. We further grant to said Company, its successors and assigns, the right to claim for any of said applications the full benefits and priority rights of any international agreement between the United States and any foreign country or countries.

We hereby warrant that we have the full right to make the conveyance herein, and we hereby covenant that we, our heirs, legal representatives and assigns, will, when requested, communicate to said Company, its representatives, successors and assigns, all facts known respecting said inventions, execute all divisional, continuing, reissue, reexamination and foreign applications together with individual assignments therefore, make all rightful oaths, sign all lawful papers, testify in any legal proceeding and generally do everything possible to aid said Company, its successors and assigns, in the obtaining of Letters Patent.

IN TESTIMONY WHEREOF, we have hereunto set our hand and seal on the dates indicated below our signatures.

Date: 9-27-2013

[Signature] (SEAL)

WITNESSES:

[Signature]
[Signature]

STATE OF Wisconsin)
) SS
COUNTY OF Dane)

Before me on this _____ day of _____, 2013, came RANDY D. CORTRIGHT to me known to be the person named in the foregoing assignment and he/she acknowledges his/her execution thereof to be his/her free act and deed.

(SEAL)

[Signature]
Notary Public, State of Wisconsin
My Commission: permanent

Date: 10/15/13

John G. Kania (SEAL)
John G. Kania

WITNESSES:

Cathy Johnson

STATE OF Wisconsin)
) SS
COUNTY OF Dane)

Before me on this 15th day of October, 2013, came JOHN KANIA, to me known to be the person named in the foregoing assignment and he/she acknowledges his/her execution thereof to be his/her free act and deed.

(SEAL)

TRG
Notary Public, State of Wisconsin
My Commission: permanent

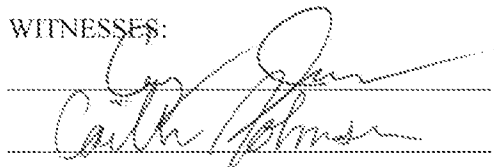


Elizabeth Woods

Date: 26/9/13

(SEAL)

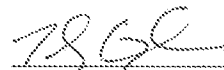
WITNESSES:


Cath Johnson

STATE OF Wisconsin)
) SS
COUNTY OF Dane)

Before me on this 26th day of September, 2013, came ELIZABETH WOODS, to me known to be the person named in the foregoing assignment and he/she acknowledges his/her execution thereof to be his/her free act and deed.

(SEAL)


Notary Public, State of Wisconsin
My Commission: permanent