

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5699922

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PETER J. FERNHOLZ	05/15/2014
ANTHONY ERICKSON	05/19/2014
RODNEY H. BANKS	05/20/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ECOLAB USA INC.
<b>Street Address:</b>	370 N. WABASHA STREET
<b>City:</b>	SAINT PAUL
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55102
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16431376
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(612)492-7077
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	612-492-7000
<b>Email:</b>	ip@fredlaw.com
<b>Correspondent Name:</b>	PAUL J. LAVANWAY, JR.
<b>Address Line 1:</b>	200 SOUTH SIXTH STREET
<b>Address Line 2:</b>	SUITE 4000
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402
<b>ATTORNEY DOCKET NUMBER:</b>	29805.162.8
<b>NAME OF SUBMITTER:</b>	PAUL J. LAVANWAY, JR.
<b>SIGNATURE:</b>	/Paul J. LaVanway, Jr./
<b>DATE SIGNED:</b>	09/03/2019
<b>Total Attachments: 5</b>	
source=29805.162.8_Executed Assignment#page1.tif	
source=29805.162.8_Executed Assignment#page2.tif	
source=29805.162.8_Executed Assignment#page3.tif	

source=29805.162.8\_Executed Assignment#page4.tif

source=29805.162.8\_Executed Assignment#page5.tif

**ASSIGNMENT**

Whereas, Peter J. Fernholz, residing at 10904 Territorial Drive, Burnsville, MN 55337; Anthony Erickson, residing at 340 Brunswick Avenue South, Golden Valley, MN 55416; and Rodney H. Banks, residing at 1504 Greenlake Drive, Aurora, IL 60502 (collectively "Assignors"), have made invention(s) for which United States and foreign patents and patent applications have been or will be filed and are identified on the attached Schedule 1; and

Whereas, Ecolab USA Inc., a Delaware corporation having a place of business at 370 N. Wabasha Street, St. Paul, MN 55102-1390 ("Assignee"), desires to acquire the entire right, title and interest in and to the United States and foreign patents and patent applications identified on the attached Schedule 1 and in and to the inventions described and claimed therein (the "Patents");

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby assigns to Assignee, and its successors and assigns the following:

- (1) The entire right, title and interest to the Patents including the inventions described or claimed therein, and to each U.S. and foreign patent application and patent from which the Patents claim priority to, in whole or in part, and to which the Patents claim priority; and
- (2) The entire right, title and interest to any United States or foreign patents that may issue with respect to the inventions described or claimed in the Patents;
- (3) The entire right, title and interest to any renewals, reissues, extensions, substitutions, continuations, continuations-in-part, or divisions of the Patents, and all foreign applications based thereon;
- (4) The right to apply for patents in foreign countries in its own name and to claim any priority rights to which such foreign applications are entitled under international conventions, treaties or otherwise; and
- (5) The right to enforce patent rights to such Patents as fully and entirely as the same would have been held and enjoyed by the Assignors if this assignment had not been made; together with all claims by Assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives.

Assignor further agrees for himself and for his successors and assigns to execute and deliver without further consideration any further applications, assignments or other documents and to perform such other lawful acts as Assignee, its successors and assigns

may deem necessary to fully secure, maintain and enforce its rights, title or interest as outlined herein.

Assignor hereby authorizes and requests the Commissioner of Patents to issue to Assignee any patents that may be granted in accordance with this Assignment.

We hereby authorize attorneys associated with Customer No. 22859, of Fredrikson & Byron, P.A., of 200 South Sixth Street, Suite 4000, Minneapolis, Minnesota, 55402-1425, to insert the application numbers, filing dates, and other identifying information on Schedule 1 when known.

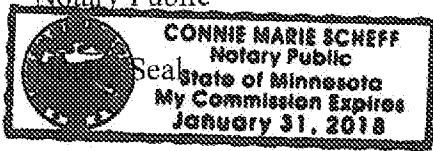
This Agreement may be executed in one or more counterparts, all of which shall be considered one and the same agreement. The signatures from each counterpart may be combined with a copy of the Agreement to constitute the entire Agreement.

Date: 5/15/2014

Peter J. FERNHOLZ  
Peter J. FERNHOLZ

Subscribed to and sworn to before me this 15 day of May, 2014.

Connie M. Scheff  
Notary Public



Date: \_\_\_\_\_

\_\_\_\_\_  
Anthony ERICKSON

Subscribed to and sworn to before me this \_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Notary Public

Notary Seal

may deem necessary to fully secure, maintain and enforce its rights, title or interest as outlined herein.

Assignor hereby authorizes and requests the Commissioner of Patents to issue to Assignee any patents that may be granted in accordance with this Assignment.

We hereby authorize attorneys associated with Customer No. 22859, of Fredrikson & Byron, P.A., of 200 South Sixth Street, Suite 4000, Minneapolis, Minnesota, 55402-1425, to insert the application numbers, filing dates, and other identifying information on Schedule 1 when known.

This Agreement may be executed in one or more counterparts, all of which shall be considered one and the same agreement. The signatures from each counterpart may be combined with a copy of the Agreement to constitute the entire Agreement.

Date: \_\_\_\_\_

\_\_\_\_\_  
Peter J. FERNHOLZ

Subscribed to and sworn to before  
me this \_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Notary Public

Notary Seal

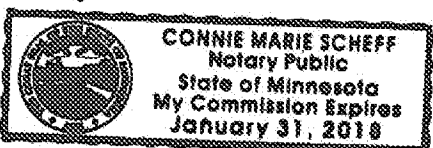
Date: 5/19/2014

\_\_\_\_\_  
Anthony ERICKSON

Subscribed to and sworn to before  
me this 19 day of May, 2014.

Connie M. Scheff  
Notary Public

Notary Seal



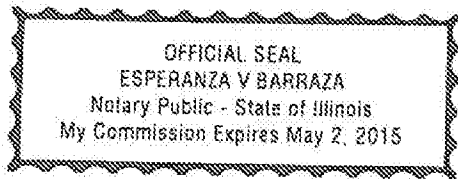
Date: 5-20-14

  
Rodney H. BANKS

Subscribed to and sworn to before  
me this 20 day of May, 2014.

Esperanza V Barraza  
Notary Public

Notary Seal



**SCHEDULE 1**

US Patent Applications

<b>Patent App. No.</b>	<b>Date Filed</b>	<b>Title</b>	<b>Attorney Docket No.</b>
14/283,785	05/21/2014	PRODUCT YIELD LOSS MANAGEMENT	29805.162.1
16/431,376	06/04/2019	PRODUCT YIELD LOSS MANAGEMENT	29805.162.8

US Patents

<b>Patent No.</b>	<b>Date Issued</b>	<b>Title</b>

Foreign and International Patent Applications

<b>Country</b>	<b>Patent App. No.</b>	<b>Date Filed</b>	<b>Title</b>	<b>Attorney Docket No.</b>
WO	PCT/US2015/031597	05/19/2015	PRODUCT YIELD LOSS MANAGEMENT	29805.162.2

Foreign Patents

<b>Country</b>	<b>Patent No.</b>	<b>Date of Issue</b>	<b>Title</b>

50555216\_1.doc