

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4781412

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
R. RYAN S. CARROLL	04/12/2010
HENRY LOUIS CARBONNE II	04/12/2010
CHARLES E. WENSMAN	04/12/2010
BRUCE W. WHITE	04/12/2010
JOHN DAVID MOREY	04/13/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ECOLAB INC.
<b>Street Address:</b>	370 NORTH WABASHA STREET
<b>Internal Address:</b>	ECOLAB CENTER
<b>City:</b>	ST. PAUL
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55102
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15874031
<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, adjohnson@fredlaw.com
<b>Correspondent Name:</b>	RYAN M. SPANHEIMER
<b>Address Line 1:</b>	200 SOUTH SIXTH STREET
<b>Address Line 2:</b>	SUITE 4000
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402-1425
<b>ATTORNEY DOCKET NUMBER:</b>	29805.351.11
<b>NAME OF SUBMITTER:</b>	RYAN M. SPANHEIMER
<b>SIGNATURE:</b>	/Ryan M. Spanheimer/
<b>DATE SIGNED:</b>	01/18/2018

**Total Attachments: 5**

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IPLM 117P2569USU1

### ASSIGNMENT

WHEREAS, R. Ryan S. Carroll, residing at 4043 Edgewood Road Northeast, Blaine, Minnesota 55014, Henry Louis Carbone II, residing at 701 Cottage Avenue West, St. Paul, Minnesota 55117, Charles E. Wensman, residing at 2841 37<sup>th</sup> Avenue South, Minneapolis, Minnesota 55406, Bruce W. White, residing at 8775 122 Street North, Hugo, Minnesota 55038, and John David Morey, residing at 1464 Simpson Street, St. Paul, Minnesota 55108, made certain new and useful inventions and improvements for which filed an application for Letters Patent of the United States on March 2, 2010, which is entitled METHOD AND APPARATUS FOR DISPENSING SOLID PRODUCT.

AND WHEREAS, Ecolab Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at Ecolab Center, 370 North Wabasha Street, St. Paul, Minnesota 55102 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, do hereby agree that and executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to relating to said improvements and the

history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by and that full right to convey the same as herein expressed is possessed by .


IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day of April, 2010.

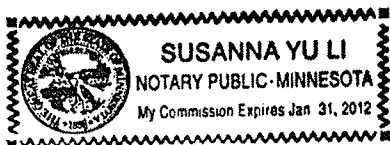
  
\_\_\_\_\_  
R. Ryan S. Carroll

STATE OF Minnesota )  
COUNTY OF Dakota )ss.

On this 12<sup>th</sup> day of April, 2010, before me personally appeared R. Ryan S. Carroll, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]

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



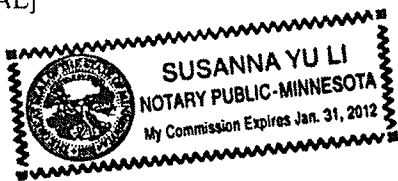
IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day of April, 2010.

[Signature]  
Henry Louis Carbone II

STATE OF Minnesota )  
COUNTY OF Dakota )ss.

On this 12th day of April, 2010, before me personally appeared Henry Louis Carbone II, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]



[Signature]  
Notary Public

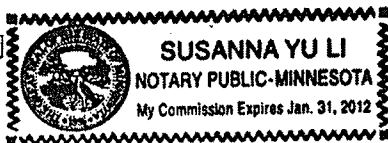
IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day of April, 2010.

[Signature]  
Charles E. Wensman

STATE OF Minnesota )  
COUNTY OF Dakota )ss.

On this 12th day of April, 2010, before me personally appeared Charles E. Wensman, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]



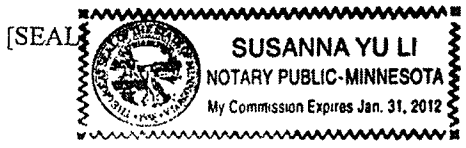
[Signature]  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day of April, 2010

Bruce W. White  
Bruce W. White

STATE OF Minnesota  
COUNTY OF Dakota )ss.

On this 12th day of April, 2010, before me personally appeared Bruce W. White, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.



[Signature]  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 13 day of April, 2010.

[Signature]  
John David Morey

STATE OF Minnesota  
COUNTY OF Dakota )ss.

On this 13th day of April, 2010, before me personally appeared John David Morey, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.



[Signature]  
Notary Public

**SCHEDULE 1**

US Patent Applications

<b>Patent App. No.</b>	<b>Date Filed</b>	<b>Title</b>	<b>Attorney Docket No.</b>
61/156,962	March 3, 2009	METHOD AND APPARATUS FOR DISPENSING SOLID PRODUCT	117P2569USP1
15/180,987	June 13, 2016	METHOD AND APPARATUS FOR DISPENSING SOLID PRODUCT	29805.351.5
15/874,031	January 18, 2018	METHOD AND APPARATUS FOR DISPENSING SOLID PRODUCT	29805.351.11

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>

Foreign Patents

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