

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

EPAS ID: PAT5988421

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JESUS CABANAS	02/06/2020
GERALD PHAN	02/07/2020
YOSHIYUKI SATO	02/06/2020
TOMOKO NAKABAYASHI	02/06/2020
MASAHIRO TAKAOKA	02/12/2020
JOHN MANSGERGH	02/12/2020
CARTER M. SILVERNAIL	02/14/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ECOLAB USA INC.
<b>Street Address:</b>	1 ECOLAB PLACE
<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>
<b>Application Number:</b>	16804377
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(515)288-1338
<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>	5152883667
<b>Email:</b>	patatty@ipmvs.com
<b>Correspondent Name:</b>	MCKEE, VOORHEES & SEASE, P.L.C.
<b>Address Line 1:</b>	801 GRAND AVENUE
<b>Address Line 2:</b>	SUITE 3200
<b>Address Line 4:</b>	DES MOINES, IOWA 50309-2721
<b>ATTORNEY DOCKET NUMBER:</b>	P12853US01-E11355USU1
<b>NAME OF SUBMITTER:</b>	JILL N. LINK
<b>SIGNATURE:</b>	/Jill N. Link/
<b>DATE SIGNED:</b>	02/28/2020

PATENT

**Total Attachments: 8**

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**ASSIGNMENT**

WHEREAS, we, **Jesus Cabanas, Gerald Phan, Yoshiyuki Sato, Tomoko Nakabayashi, Masahiro Takaoka, John Mansergh and Carter M. Silvernail**, made certain new and useful inventions and improvements for which we filed applications for Letters Patent in the United States Ser. No. **16/804,377** and International Ser. No. PCT/US2020/20271, both on the **28th** day of **February, 2020**, and entitled **HARDNESS ADDITIVES AND BLOCK DETERGENTS CONTAINING HARDNESS ADDITIVES TO IMPROVE EDGE HARDENING**, both of which claim priority to U.S. Serial No. 62/811,656, filed February 28, 2019.

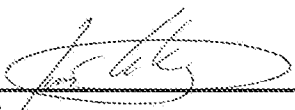
AND WHEREAS, **ECOLAB USA INC.**, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 1 Ecolab Place, Saint Paul, Minnesota 55102 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest 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 good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we 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 the right(s) to claim priority thereto, 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 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 all countries which may be granted therefrom; and we 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, we do hereby agree that we and our 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 us

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 we 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 us and that full right to convey the same as herein expressed is possessed by us.

  
Jesus Cabanas

Date: 2/6/2020

1 Ecolab Place

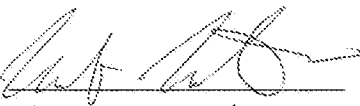
Saint Paul, MN 55102, USA

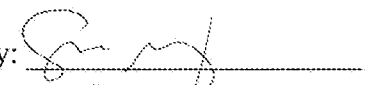
STATE OF \_\_\_\_\_ )  
  )ss  
COUNTY OF \_\_\_\_\_ )

Subscribed and sworn to before me  
this \_\_\_\_\_ day of \_\_\_\_\_ 2020.

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

*In situations where no notary is available, 2 witnesses may sign witnessing the inventor signature.*

Witnessed by:   
Full Name: Matthew Mulvihill  
Date: 6 February 2020

Witnessed by:   
Full Name: Senior Riley  
Date: 6 February 2020



Gerald Pham

Date: 2/7/20

1 Ecolab Place

Saint Paul, MN 55102, USA

STATE OF MN

COUNTY OF Ramsey )ss

Subscribed and sworn to before me  
this \_\_\_\_ day of \_\_\_\_\_ 2020.

Notary Public

*In situations where no notary is available, 2 witnesses may sign witnessing the inventor signature.*

Witnessed by: 

Full Name: Curtis Finney

Date: 2/7/20

Witnessed by: 

Full Name: EDWARD H. HANCOCK

Date: 2-7-2020



Yoshiyuki Sato

Date: 6/Feb/2020

1 Ecolab Place

Saint Paul, MN 55102, USA

STATE OF \_\_\_\_\_ )

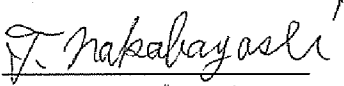
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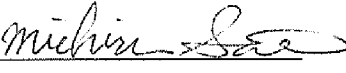
COUNTY OF \_\_\_\_\_ )

Subscribed and sworn to before me  
this \_\_\_\_ day of \_\_\_\_\_ 2020.

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

*In situations where no notary is available, 2 witnesses may sign witnessing the inventor signature.*

Witnessed by:   
Full Name: Tomoko Nakabayashi  
Date: 6. Feb. 2020

Witnessed by:   
Full Name: Michiru Sato  
Date: 7. Feb. 2020

T. Nakabayashi  
Tomoko Nakabayashi

Date: 6. Feb. 2020

1 Ecolab Place

Saint Paul, MN 55102, USA

STATE OF \_\_\_\_\_ )  
 )ss  
COUNTY OF \_\_\_\_\_ )

Subscribed and sworn to before me  
this \_\_\_\_ day of \_\_\_\_\_ 2020.

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

*In situations where no notary is available, 2 witnesses may sign witnessing the inventor signature.*

Witnessed by: [Signature]  
Full Name: Yoshiyuki Sato  
Date: 6. Feb. 2020

Witnessed by: [Signature]  
Full Name: Michiru Sato  
Date: 7. Feb. 2020

*M. Takaoka*

Masahiro Takaoka

Date: 12<sup>th</sup> Dec. 2020

1 Ecolab Place

Saint Paul, MN 55102, USA

STATE OF \_\_\_\_\_ )

)ss

COUNTY OF \_\_\_\_\_ )

Subscribed and sworn to before me  
this \_\_\_\_ day of \_\_\_\_\_ 2020.

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

*In situations where no notary is available, 2 witnesses may sign witnessing the inventor signature.*

Witnessed by: *[Signature]*

Full Name: Yoshiyuki Sato


Date: 26. Feb. 2020

Witnessed by: *[Signature]*

Full Name: Tomoko Nakabayashi

Date: 27. Feb. 2020



  
John Mansergh

Date: 2/12/2020

1 Ecolab Place

Saint Paul, MN 55102, USA

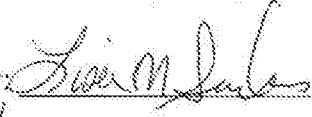
STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ ) ss

Subscribed and sworn to before me  
this \_\_\_\_ day of \_\_\_\_\_ 2020.

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

*In situations where no notary is available, 2 witnesses may sign witnessing the inventor signature.*

Witnessed by: 

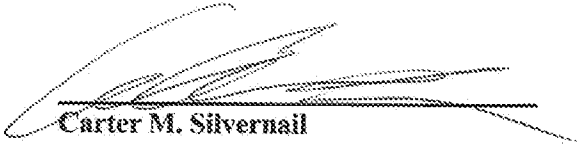
Full Name: Lisa Marsson Sardiss

Date: 2/12/2020

Witnessed by: 

Full Name: Steven James Landberg

Date: 2/12/2020

  
Carter M. Silvernail

Date: 2/14/20

1 Ecolab Place

Saint Paul, MN 55102, USA

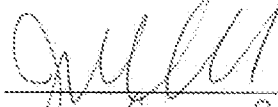
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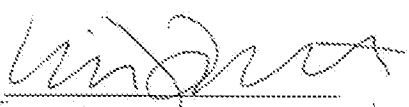
COUNTY OF \_\_\_\_\_ ) ss

Subscribed and sworn to before me  
this \_\_\_\_\_ day of \_\_\_\_\_ 2020.

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

*In situations where no notary is available, 2 witnesses may sign witnessing the inventor signature.*

Witnessed by:   
Full Name: Jennifer Stokes  
Date: 2/14/2020

Witnessed by:   
Full Name: Erin Dahlquist Howlett  
Date: 2-19-20