

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5880049

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	DAVID L. SNODGRASS	02/26/2019
RECEIVING PARTY DATA		
Name:	ECOLAB USA INC.	
Street Address:	1 ECOLAB PLACE	
City:	ST. PAUL	
State/Country:	MINNESOTA	
Postal Code:	55102	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16723234	
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Phone:	651-735-1100	
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Correspondent Name:	SHUMAKER & SIEFFERT, P.A./ECOLAB	
Address Line 1:	1625 RADIO DRIVE	
Address Line 2:	SUITE 100	
Address Line 4:	WOODBURY, MINNESOTA 55125	
ATTORNEY DOCKET NUMBER:	1092-142US01/E12298USU1	
NAME OF SUBMITTER:	NANCY J. BURR	
SIGNATURE:	/Nancy J. Burr/	
DATE SIGNED:	12/20/2019	
Total Attachments: 2		
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ASSIGNMENT

WHEREAS, I, David L. Snodgrass, made certain new and useful inventions and improvements for which I filed an application for Letters Patent of the United States on December 20, 2018 which is entitled ADAPTIVE ROUTE, BI-DIRECTIONAL NETWORK COMMUNICATION.

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, 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 good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, I 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 I 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, I do hereby agree that I and my 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 me 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.

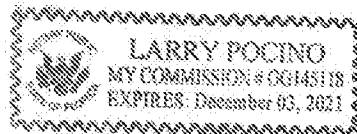
AND, furthermore I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed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

David L. Snodgrass Date: 02-26-19
David L. Snodgrass FLALA 5532172673880 ASIA (2)
2593 SE Springtree Place

Stuart, FL, 34997 US

STATE OF Florida)
)ss
COUNTY OF Martin)

Subscribed and sworn to before me
this 26 day of February, 2019.



[Signature]
Notary Public