

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	J.F. KNAUER INDUSTRIE-ELEKTRONIK GMBH	07/13/2015
RECEIVING PARTY DATA		
Name:	ECOLAB USA INC.	
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City:	ST. PAUL	
State/Country:	MINNESOTA	
Postal Code:	55102-1390	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16289746
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ATTORNEY DOCKET NUMBER:	29805.309.1.2	
NAME OF SUBMITTER:	RYAN M. SPANHEIMER	
SIGNATURE:	/Ryan M. Spanheimer/	
DATE SIGNED:	03/01/2019	
Total Attachments: 3		
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ASSIGNMENT

WHEREAS, J.F. Knauer Industrie-Elektronik GmbH, a corporation of the country of Germany, with an address of Deuil-la-Barrestrasse 17, Frankfurt, Germany 60473, (hereinafter "Assignor"), is the owner of the United States and foreign patents and patent applications identified on the attached Schedule 1;

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"); and

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. 124257, 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.

J.F. Knauer Industrie-Elektronik GmbH

Date: 13-7-2015

Gordon Thomas
By: 


Witness


Witness

SCHEDULE 1US Patent Applications

Patent App. No.	Date Filed	Title	Attorney Docket No.
13/715,373	December 14, 2012	APPARATUS AND METHOD FOR TREATING SLURRIES	29805.307.1
13/821,604	April 30, 2013	STIRRER	29805.308.1
13/961,361	October 30, 2013	MIXING APPARATUS FOR CRUSHING SLUDGE	29805.309.1
15,373,805	December 9, 2016	MIXING APPARATUS FOR CRUSHING SLUDGE	29805.309.1.1
16/289,746	March 1, 2019	MIXING APPARATUS FOR CRUSHING SLUDGE	29805.309.1.2

US Patents

Patent No.	Date Issued	Title
US 5,993,670	November 30, 1999	APPARATUS FOR ADMIXING OF A FLOCCULANT LIQUID TO A SLUDGE STREAM AND USE OF THE APPARATUS
US 6,578,781	June 17, 2003	METHOD FOR THE DISINTEGRATION SEWAGE SLUDGE
US 6,578,780	June 17, 2003	METHOD FOR THE DISINTEGRATION SEWAGE SLUDGE

Foreign and International Patent Applications

Country	Patent App. No.	Date Filed	Title	Attorney Docket No.
Korea	10-2013-7001002	June 9, 2011	APPARATUS AND METHOD FOR TREATING SLURRIES	29805.310.1

Foreign Patents

Country	Patent No.	Date of Issue	Title