

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6629842

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
EVOQUA WATER TECHNOLOGIES LLC	12/18/2019
RECEIVING PARTY DATA	
Name:	ROHM & HAAS ELECTRONIC MATERIALS SINGAPORE PTE. LTD
Street Address:	260 ORCHARD ROAD
Internal Address:	#18-01 THE HEEREN
City:	SINGAPORE
State/Country:	SINGAPORE
Postal Code:	238855
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	16581709
Patent Number:	10427102
CORRESPONDENCE DATA	
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Address Line 1:	974 CENTRE ROAD
Address Line 2:	DUPONT LEGAL, CRP721/2271
Address Line 4:	WILMINGTON, DELAWARE 19805
ATTORNEY DOCKET NUMBER:	DI82671-US-PCN
NAME OF SUBMITTER:	FRANCES TOUTKALDJIAN
SIGNATURE:	/Frances Toutkaldjian/
DATE SIGNED:	03/30/2021
Total Attachments: 32	
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PATENT ASSIGNMENT

EVOQUA WATER TECHNOLOGIES LLC, a Delaware limited liability company (“Assignor”), hereby assigns, transfers to, and confirms in ROHM & HAAS ELECTRONIC MATERIALS SINGAPORE PTE. LTD, a Singapore corporation (“Assignee”), its successors, legal representatives and assigns, and Assignee hereby accepts, (i) Assignor’s full and exclusive right, title and interest in the patents and patent applications identified in Exhibit 1 hereto (hereinafter the “Patents”), (ii) any and all additional patent applications, utility model registrations, and other invention registrations claiming priority to or otherwise corresponding to the Patents that are or may be filed; (iii) any and all patents, utility model registrations, and other invention and industrial property registrations issuing from the Patents; and (iv) any and all reissues, reexamination certificates, extensions, divisions, renewals, continuations, and continuations-in-part of the Patents.

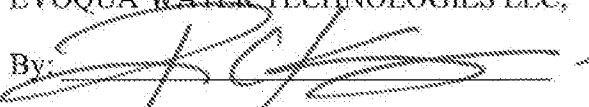
Assignor hereby authorizes and requests the U.S. Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this Assignment.

Assignor hereby covenants and agrees that it has full right to convey the entire interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith.

[remainder of page blank]

Assignor hereby agrees that it will execute any papers and take all other actions reasonably necessary to document and officially record the ownership interest transferred to Assignee in accordance with the terms of this Agreement.

EVOQUA WATER TECHNOLOGIES LLC,

By: 

Name: Ronald Keating

Title: President and CEO

Date: December 18, 2019

Notary: Barbara Walker Haser

Assignee

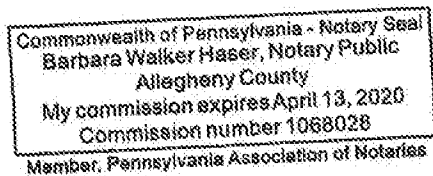
By: _____

Name: _____

Title: _____

Date: _____

Notary: _____



[Signature Page to Patent Assignment]

Assignor hereby agrees that it will execute any papers and take all other actions reasonably necessary to document and officially record the ownership interest transferred to Assignee in accordance with the terms of this Agreement

EVOQUA WATER TECHNOLOGIES LLC,

By: _____

Name: _____

Title: _____

Date: _____

Notary: _____

ROHM & HAAS ELECTRONIC
MATERIALS SINGAPORE PTE. LTD.

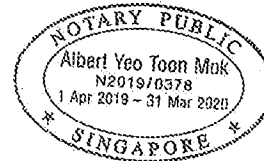
By: _____

Name: Tan Thean Ming

Title: Director

Date: 17 DEC 2019

Notary: _____



[Signature Page to Patent Assignment]



NC0J9R06TJ

NOTARIAL CERTIFICATE

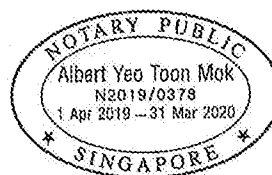
TO ALL TO WHOM these presents shall come

I, Yeo Toon Mok Albert, NOTARY PUBLIC duly admitted, authorised to practise in the Republic of Singapore, DO HEREBY CERTIFY

that the document hereto annexed is the original copy of the **ASSIGNMENT** made by **EVOQUA WATER TECHNOLOGIES LLC.** to **ROHM & HAAS ELECTRONIC MATERIALS SINGAPORE PTE. LTD.** ("The Assignee") and duly signed by the Director of the Assignee, **TAN THEAN MING**, on 17 Dec 2019.

IN FAITH AND TESTIMONY whereof I the said notary have subscribed my name and set and affixed my seal of office at Singapore, this 17th day of December 2019.

NOTARY PUBLIC
SINGAPORE



By virtue of Rule 8(3)(c) of the Notaries Public Rules, a Notarial Certificate must be authenticated by the Singapore Academy of Law in order to be valid.

PATENT

REEL: 055841 FRAME: 0736



Verification code:
69901173

This *Authentication Certificate* only certifies the authenticity of the signature and the capacity of the person who signed the Notarial Certificate.

This *Authentication Certificate* is not valid if the seal of the Singapore Academy of Law is removed or altered in any way whatsoever. This Certificate does not authenticate or confirm the content of the Document attached to the annexed Notarial Certificate.

Authentication

- | | |
|---|---------------------|
| 1. Country: | Singapore |
| 2. This public document has been signed by: | Yeo Toon Mok Albert |
| 3. Acting in the capacity of: | Notary Public |
| 4. Bears the seal/stamp: | Notary Public |

Certified

- | | |
|-----------------------------|--|
| 5. Authentication Cert No.: | ACQ19R0C9J |
| 6. At: | Singapore Academy of Law |
| 7. The: | 17th December 2019 |
| 8. By: | Paul Neo, Chief Operating Officer, SAL |
| 9. SAL Certification Seal: | 10. Signature: |

Paul Neo

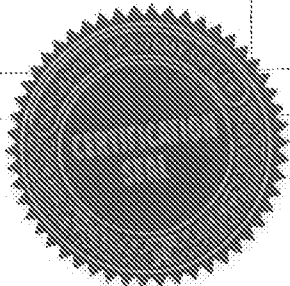


EXHIBIT 1**PATENTS**

Applicant/Assignee	Title	Country	Patent No.	App. No.	Issue Date	Application Date
Evoqua Water Technologies LLC	Manifold Cup	Germany	40002112.9	40002112.9	5/31/2000	2/24/2000
Evoqua Water Technologies LLC	Manifold Cup	France	586495A5865	001184	7/7/2000	2/24/2000
Evoqua Water Technologies LLC	Apparatus and Method for Cleaning Membrane Filtration Modules	United States	6524481	09/815966	2/25/2003	3/23/2001
Evoqua Water Technologies LLC	Manifold Header	Germany	40010911.5	40010911.5	1/12/2001	11/18/2000
Evoqua Water Technologies LLC	Manifold Header	France	621444A6214	006752	4/27/2001	11/20/2000
Evoqua Water Technologies LLC	Membrane Filtration Manifold System	Great Britain	1189682	00918589.3	10/27/2010	4/20/2000
Evoqua Water Technologies LLC	Membrane Filtration Manifold System	Australia	762091	2000039479	10/2/2003	4/20/2000
Evoqua Water Technologies LLC	Membrane Filtration Manifold System	China P.R.	00806469.5	00806469.5	10/26/2005	4/20/2000
Evoqua Water Technologies LLC	Membrane Filtration Manifold System	New Zealand	514482	514482	8/7/2003	4/20/2000
Evoqua Water Technologies LLC	Improved Membrane Filtration System	United States	6872305	10/406807	3/29/2005	4/2/2003
Evoqua Water Technologies LLC	Improved Membrane Filtration System	Australia	2001291514	2001291514	2/22/2007	10/3/2001

Applicant/Assignee	Title	Country	Patent No.	App. No.	Issue Date	Application Date
Evoqua Water Technologies LLC *Currently listed as Siemens Water Technologies LLC at Patent Office	Improved Membrane Filtration System	India		467/DELNP/2003		10/3/2001
Evoqua Water Technologies LLC	Hollow Fiber Restraining System	United States	7223340	11/056532	5/29/2007	2/11/2005
Evoqua Water Technologies LLC	Hollow Fiber Restraining System	Germany	60139004.0	01919003.2	6/17/2009	4/6/2001
Evoqua Water Technologies LLC	Hollow Fiber Restraining System	Great Britain	1272262	01919003.2	6/17/2009	4/6/2001
Evoqua Water Technologies LLC	Hollow Fiber Restraining System	Australia	2001246242	2001246242	6/17/2005	4/6/2001
Evoqua Water Technologies LLC	Hollow Fiber Restraining System	Canada	2405442	2405442	5/5/2009	4/6/2001
Evoqua Water Technologies LLC	Hollow Fiber Restraining System	China P.R.	01807879.6	01807879.6	12/8/2004	4/6/2001
Evoqua Water Technologies LLC	Hollow Fiber Restraining System	New Zealand	521856	521856	7/5/2004	4/6/2001
Evoqua Water Technologies LLC	Hollow Fiber Restraining System	United States	6783008	10/268600	8/31/2004	10/9/2002
Evoqua Water Technologies LLC	Modified Membranes	United States	6884350	10/437202	4/26/2005	5/12/2003
Evoqua Water Technologies LLC	Membrane Polymer Compositions	United States	7226541	10/738628	6/5/2007	12/16/2003
Evoqua Water Technologies LLC	Method of Cleaning Membrane Modules	United States	8512568	12/466199	8/20/2013	5/14/2009

Applicant/Assignee	Title	Country	Patent No.	App. No.	Issue Date	Application Date
Evoqua Water Technologies LLC	High Solids Module	United States	7018533	10/802691	3/28/2006	3/16/2004
Evoqua Water Technologies LLC	High Solids Module	Great Britain	1441841	02764383.2	8/1/2007	9/17/2002
Evoqua Water Technologies LLC	High Solids Module	Australia	2002328672	2002328672	6/12/2008	9/17/2002
Evoqua Water Technologies LLC	High Solids Module	Canada	2460207	2460207	5/17/2011	9/17/2002
Evoqua Water Technologies LLC	Method of Cleaning PVDF Membranes	Great Britain	1312408	02257855.3	7/19/2006	11/14/2002
Evoqua Water Technologies LLC	Method of Cleaning Membranes	United States	6955762	10/298471	10/18/2005	11/15/2002
Evoqua Water Technologies LLC	Aeration Method	Spain	1534410	03792034.5	2/29/2012	8/21/2003
Evoqua Water Technologies LLC	Aeration Method	France	1534410	03792034.5	2/29/2012	8/21/2003
Evoqua Water Technologies LLC	Aeration Method	Great Britain	1534410	03792034.5	2/29/2012	8/21/2003
Evoqua Water Technologies LLC	Aeration Method	Hungary	1534410	03792034.5	2/29/2012	8/21/2003
Evoqua Water Technologies LLC	Aeration Method	Australia	2003254384	2003254384	1/8/2009	8/21/2003
Evoqua Water Technologies LLC	Aeration method and apparatus for filtration	Canada	2493315	2493315	8/19/2014	8/21/2003
Evoqua Water Technologies LLC	Aeration Method	Singapore	110288	200500547-5	1/31/2007	8/21/2003
Evoqua Water Technologies LLC	Aeration Method	United States	7361274	11/060106	4/22/2008	2/16/2005

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Evoqua Water Technologies LLC	Methods of Minimising the Effect of Integrity Loss in Hollow Fibre Membrane Modules	United States	8182687	12/022940	5/22/2012	1/30/2008
Evoqua Water Technologies LLC	Methods of Minimising the Effect of Integrity Loss in Hollow Fibre Membrane Modules	United States	7160463	11/015655	1/9/2007	12/16/2004
Evoqua Water Technologies LLC	Backwash Method	Australia	2003266847	2003266847	1/8/2009	10/10/2003
Evoqua Water Technologies LLC	A filtration and backwashing arrangement for membrane modules	Canada	2501628	2501628	12/4/2012	10/10/2003
Evoqua Water Technologies LLC	Backwash Method	United States	7938966	10/530900	5/10/2011	4/11/2005
Evoqua Water Technologies LLC	Mixing Chamber	United States	8372282	10/537760	2/12/2013	6/6/2005
Evoqua Water Technologies LLC	Membrane Post Treatment	United States	8262778	13/206845	9/11/2012	8/10/2011
Evoqua Water Technologies LLC	Module Cleaning Method	Great Britain	1687078	04797016.5	3/14/2012	11/12/2004
Evoqua Water Technologies LLC	Module Cleaning Method	Australia	2004289373	2004289373	11/11/2010	11/12/2004
Evoqua Water Technologies LLC	Closed aeration and backwash device for use with membrane filtration module	Canada	2544626	2544626	1/26/2016	11/12/2004
Evoqua Water Technologies LLC	Module Cleaning Method	Singapore	122361	200603187-6	12/31/2008	11/12/2004

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Evoqua Water Technologies LLC	Module Cleaning Method	United States	8808540	10/595841	8/19/2014	5/15/2006
Evoqua Water Technologies LLC	Backwash	China P.R.	ZL201310180783.1	201310180783.1	1/13/2016	8/27/2004
Evoqua Water Technologies LLC	Backwash	Germany	602004048777.5	04761194.2	3/9/2016	8/27/2004
Evoqua Water Technologies LLC	Backwash	Great Britain	1677898	04761194.2	3/9/2016	8/27/2004
Evoqua Water Technologies LLC	Backwash	Australia	2004267874	2004267874	6/25/2009	8/27/2004
Evoqua Water Technologies LLC	Backwash	Canada	2535360	2535360	2/12/2013	8/27/2004
Evoqua Water Technologies LLC	Backwash	New Zealand	545206	545206	7/9/2009	8/27/2004
Evoqua Water Technologies LLC	Backwash	Singapore	119706	200600935-1	4/30/2007	8/27/2004
Evoqua Water Technologies LLC	Backwash	United States	8268176	10/569565	9/18/2012	2/27/2006
Evoqua Water Technologies LLC	Apparatus and Method for Cleaning Membrane Filtration Modules	United States	6821420	10/428601	11/23/2004	5/1/2003
Evoqua Water Technologies LLC	Improved Method of Cleaning Membrane Modules	Australia	2010201094	2010201094	8/17/2012	9/15/2004
Evoqua Water Technologies LLC	Improved Method of Cleaning Membrane Modules	Singapore	146668	200806967-6	4/13/2012	9/15/2004

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Evoqua Water Technologies LLC	Improved Method of Cleaning Membrane Modules	Germany	602004044321.2	04761286.6	1/22/2014	9/15/2004
Evoqua Water Technologies LLC	Improved Method of Cleaning Membrane Modules	Great Britain	1680210	04761286.6	1/22/2014	9/15/2004
Evoqua Water Technologies LLC	Improved Method of Cleaning Membrane Modules	Netherlands	1680210	04761286.6	1/22/2014	9/15/2004
Evoqua Water Technologies LLC	Improved Method of Cleaning Membrane Modules	Australia	2004273534	2004273534	8/5/2010	9/15/2004
Evoqua Water Technologies LLC	Improved Method of Cleaning Membrane Modules	Canada	2538889	2538889	8/14/2012	9/15/2004
Evoqua Water Technologies LLC	Improved Method of Cleaning Membrane Modules	Singapore	120507	200601653-9	3/31/2009	9/15/2004
Evoqua Water Technologies LLC	Removable System for Membranes in a Membrane Filtration System	United States	7282146	11/139732	10/16/2007	5/27/2005
Evoqua Water Technologies LLC	Continuously Variable Aeration	United States	8377305	11/575364	2/19/2013	3/15/2007
Evoqua Water Technologies LLC	Methods and Apparatus for Removing Solids from a Membrane Module	Germany	602005042138.6	05779037.0	12/11/2013	9/13/2005

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Evoqua Water Technologies LLC	Methods and Apparatus for Removing Solids from a Membrane Module	Great Britain	1799334	05779037.0	12/11/2013	9/13/2005
Evoqua Water Technologies LLC	Methods and Apparatus for Removing Solids from a Membrane Module	Netherlands	1799334	05779037.0	12/11/2013	9/13/2005
Evoqua Water Technologies LLC	Methods and Apparatus for Removing Solids from a Membrane Module	Australia	2005284677	2005284677	4/7/2011	9/13/2005
Evoqua Water Technologies LLC	Methods and Apparatus for Removing Solids from a Membrane Module	China P.R.	ZL200580034570.1	200580034570.1	10/8/2014	9/13/2005
Evoqua Water Technologies LLC	Methods and Apparatus for Removing Solids from a Membrane Module	Singapore	130641	200701769-2	11/30/2009	9/13/2005
Evoqua Water Technologies LLC	Methods and Apparatus for Removing Solids from a Membrane Module	United States	8506806	11/575234	8/13/2013	3/15/2007
Evoqua Water Technologies LLC	Hydrophilic Membranes	United States	8524794	11/571101	9/3/2013	12/21/2006
Evoqua Water Technologies LLC	Apparatus and Method for Cleaning Membrane Filtration Modules	United States	6841070	10/822036	1/11/2005	4/8/2004
Evoqua Water Technologies LLC	Square MBR Manifolding System	Germany	602005040262.4	05773339.6	7/3/2013	8/19/2005

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Evoqua Water Technologies LLC	Square MBR Manifolding System	Great Britain	1789164	05773339.6	7/3/2013	8/19/2005
Evoqua Water Technologies LLC	Square MBR Manifolding System	Australia	2005274614	2005274614	3/3/2011	8/19/2005
Evoqua Water Technologies LLC	Membrane Modules with Gas and Filtrate Conduits and Racks Formed Therefrom	Canada	2577137	2577137	4/22/2014	8/19/2005
Evoqua Water Technologies LLC	Square MBR Manifolding System	China P.R.	200580032814.2	200580032814.2	7/4/2012	8/19/2005
Evoqua Water Technologies LLC	Square Membrane Manifold System	United States	7862719	11/660694	1/4/2011	10/26/2007
Evoqua Water Technologies LLC	Gas Transfer Membrane	United States	7819956	11/571100	10/26/2010	12/21/2006
Evoqua Water Technologies LLC	Reduction of Backwash Liquid Waste	Germany	602005038113.9	05778982.8	2/13/2013	9/7/2005
Evoqua Water Technologies LLC	Reduction of Backwash Liquid Waste	Great Britain	1807180	05778982.8	2/13/2013	9/7/2005
Evoqua Water Technologies LLC	Reduction of Backwash Liquid Waste	Australia	2005282211	2005282211	8/4/2011	9/7/2005
Evoqua Water Technologies LLC	Membrane Filtration with Reduced Volume Cleaning Step	Canada	2579168	2579168	6/23/2015	9/7/2005
Evoqua Water Technologies LLC	Reduction of Backwash Liquid Waste	China P.R.	200580035601.5	200580035601.5	9/5/2012	9/7/2005
Evoqua Water Technologies LLC	Reduction of Backwash Liquid Waste	Singapore	130524	200701622-3	9/30/2009	9/7/2005

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Evoqua Water Technologies LLC	Reduction of Backwash Liquid Waste	United States	8790515	11/574819	7/29/2014	12/7/2007
Evoqua Water Technologies LLC	Hollow Fiber Restraining System	United States	6962258	10/894191	11/8/2005	7/19/2004
Evoqua Water Technologies LLC	Submerged Cross-Flow Filtration	United States	7591950	11/441819	9/22/2009	5/26/2006
Evoqua Water Technologies LLC	Cleaning in Membrane Filtration Systems	Great Britain	1835985	05818584.4	3/14/2012	12/19/2005
Evoqua Water Technologies LLC	Cleaning in Membrane Filtration Systems	Australia	2005318930	2005318930	9/16/2010	12/19/2005
Evoqua Water Technologies LLC	Cleaning in Membrane Filtration Systems	Singapore	133360	200704743-4	12/31/2009	12/19/2005
Evoqua Water Technologies LLC	Cleaning in Membrane Filtration Systems	United States	8496828	11/722411	7/30/2013	6/21/2007
Evoqua Water Technologies LLC	Chemical Clean For Membrane Filter	United States	9675938	11/912859	6/13/2017	10/26/2007
Evoqua Water Technologies LLC	Filtration System	Malaysia	MY-148816-A	PI20071094	6/14/2013	7/9/2007
Evoqua Water Technologies LLC	Filtration System	Australia	2006206046	2006206046	2/10/2011	1/13/2006
Evoqua Water Technologies LLC	Filtration System	China P.R.	200680006142.2	200680006142.2	11/30/2011	1/13/2006
Evoqua Water Technologies LLC	Membrane Post Treatment	United States	7867417	11/720700	1/11/2011	6/1/2007
Evoqua Water Technologies LLC	Submerged Cross-Flow Filtration	Australia	2006216078	2006216078	1/25/2012	10/26/2005

Applicant/Assignee	Title	Country	Patent No.	App. No.	Issue Date	Application Date
Evoqua Water Technologies LLC	Submerged Cross-Flow Filtration	Australia	2005301085	2005301085	1/19/2012	10/26/2005
Evoqua Water Technologies LLC	Backwash and Cleaning Method	Great Britain	1680211	04761327.8	7/9/2014	9/22/2004
Evoqua Water Technologies LLC	Backwash and Cleaning Method	Australia	2004273542	2004273542	7/15/2010	9/22/2004
Evoqua Water Technologies LLC	Backwash and Cleaning Method	Japan	4846584	2006-526487	10/21/2011	9/22/2004
Evoqua Water Technologies LLC	Backwash and Cleaning Method	Republic of Korea	1141514	10-2006-7005571	4/24/2012	9/22/2004
Evoqua Water Technologies LLC	Backwash and Cleaning Method	Singapore	120409	200601436-9	3/30/2007	9/22/2004
Evoqua Water Technologies LLC	Apparatus for Potting Membranes	United States	7931463	11/197969	4/26/2011	8/5/2005
Evoqua Water Technologies LLC	A Membrane Module	United States	8518256	13/087548	8/27/2013	4/15/2011
Evoqua Water Technologies LLC	Monopersulfate Treatment of Membranes	United States	7988891	11/995588	8/2/2011	1/14/2008
Evoqua Water Technologies LLC	Assembly for Water Filtration using a Tube Manifold to Minimise Backwash	United States	8894858	14/332272	11/25/2014	7/15/2014
Evoqua Water Technologies LLC	Assembly for Water Filtration using a Tube Manifold to Minimise Backwash	United States	8858796	12/064409	10/14/2014	2/21/2008

Applicant/Assignee	Title	Country	Patent No.	App. No.	Issue Date	Application Date
Evoqua Water Technologies LLC	A Chemical Cleaning Agent and A Process For Cleaning Filtration Membranes	Singapore	140767	200801855-8	10/29/2010	9/27/2006
Evoqua Water Technologies LLC	Dynamic Control of Membrane Bioreactor System	United States	7655142	12/089238	2/2/2010	4/4/2008
Evoqua Water Technologies LLC	Reduced Backwash Volume Process	Australia	2006322659	2006322659	11/1/2012	12/11/2006
Evoqua Water Technologies LLC	Reduced Backwash Volume Process	Singapore	143504	200804345-7	1/31/2011	12/11/2006
Evoqua Water Technologies LLC	Improved Operating Strategies in Filtration Processes	Australia	2007204599	2007204599	10/11/2012	1/12/2007
Evoqua Water Technologies LLC	Continuous Membrane Filtration And Solids Reduction	United States	7569148	11/843817	8/4/2009	8/23/2007
Evoqua Water Technologies LLC	Low Pressure Backwash	Australia	2007291946	2007291946	7/26/2012	8/30/2007
Evoqua Water Technologies LLC	Low Pressure Backwash	China P.R.	200780032293.X	200780032293.X	7/3/2013	8/30/2007
Evoqua Water Technologies LLC	Low Pressure Backwash	Singapore	150091	200900913-5	11/30/2011	8/30/2007
Evoqua Water Technologies LLC	Infiltration/Inflow Control for Membrane Bioreactor	United States	8293098	12/447084	10/23/2012	2/5/2010
Evoqua Water Technologies LLC	Infiltration/Inflow Control for Membrane Bioreactor	United States	8318028	12/594323	11/27/2012	4/1/2008

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Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Australia	2011253685	2011253685	1/2/2014	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Australia	2013202174	2013202174	5/14/2015	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Australia	2015200091	2015200091	3/2/2017	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	China P.R.	ZL201210564687.2	201210564687.2	8/10/2016	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	China P.R.		201610544266.1		5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	China P.R.		201811067045.5		5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Republic of Korea	10-1402291	2012-7016876	5/26/2014	5/29/2008
Evoqua Water Technologies LLC	Water Treatment System Membrane Cleaning with Pulsed Airlift Pump	Republic of Korea	10-1625172	10-2015-7005506	5/23/2016	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	New Zealand	603143	603143	7/1/2014	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	United States	8287743	12/895156	10/16/2012	9/30/2010
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	United States	8372276	13/298575	2/12/2013	11/17/2011

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Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	United States	8840783	13/765494	9/23/2014	2/12/2013
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	United States	9573824	14/090491	2/21/2017	11/26/2013
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	United States	9206057	14/177749	12/8/2015	2/11/2014
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	United States		15/402759		1/10/2017
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	European Patent Convention		16163368.0		5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	European Patent Convention		18159873.1		5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Germany	602008015881.0	08754790.7	5/23/2012	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Spain	2152390	08754790.7	5/23/2012	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	France	2152390	08754790.7	5/23/2012	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Great Britain	2152390	08754790.7	5/23/2012	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Hungary	2152390	08754790.7	5/23/2012	5/29/2008

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Evoqua Water Technologies LLC *Confirming with Patent Office	Membrane Cleaning with Pulsed Airlift Pump	Italy	2152390	502012902077085	5/23/2012	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Netherlands	2152390	08754790.7	5/23/2012	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Australia	2008263139	2008263139	12/8/2011	5/29/2008
Evoqua Water Technologies LLC	Pulsed Random Two Phase Gas/Liquid Flow For Cleaning Membrane Surfaces	Canada		2688455		5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	China P.R.	200880017403.X	200880017403.X	7/10/2013	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	India	296006	4062/KOLNP/2009	4/23/2018	5/29/2008
Evoqua Water Technologies LLC	Membrane Module Having Pulsed Airlift Pump	Japan	4833353	2010-510337	9/30/2011	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Republic of Korea	1239780	10-2009-7027311	2/27/2013	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Malaysia	MY-162127-A	PI20095025	5/31/2017	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	New Zealand	581008	581008	3/1/2013	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Singapore	156864	200907441-0	6/29/2012	5/29/2008

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Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	United States	8622222	12/602316	1/7/2014	1/6/2011
Evoqua Water Technologies LLC	Membrane Cleaning Using an Airlift Pump	Australia	2008255640	2008255640	9/26/2013	5/29/2008
Evoqua Water Technologies LLC	Membrane Cleaning Using an Airlift Pump	China P.R.	200880017842.0	200880017842.0	9/19/2012	5/29/2008
Evoqua Water Technologies LLC	Membrane Module Protection	United States	9764288	13/834568	9/19/2017	3/15/2013
Evoqua Water Technologies LLC	Membrane Module Protection	Great Britain	2134454	08733323.3	8/28/2013	4/4/2008
Evoqua Water Technologies LLC	Membrane Module Protection	Australia	2008235254	2008235254	12/13/2012	4/4/2008
Evoqua Water Technologies LLC	Airlift Pump	United States	D637208	29/335279	5/3/2011	4/13/2009
Evoqua Water Technologies LLC	Frame System for Membrane Filtration Modules	China P.R.	201610510648.2	201610510648.2	6/4/2019	7/29/2009
Evoqua Water Technologies LLC	Frame System for Membrane Filtration Modules	United States	9023206	13/737750	5/5/2015	1/9/2013
Evoqua Water Technologies LLC	Frame System for Membrane Filtration Modules	Germany	60 2009 054 355.5	09799876.9	9/5/2018	7/29/2009
Evoqua Water Technologies LLC	Frame System for Membrane Filtration Modules	Great Britain	2331242	09799876.9	9/5/2018	7/29/2009
Evoqua Water Technologies LLC	Frame System for Membrane Filtration Modules	Australia	2009273775	2009273775	3/5/2015	7/29/2009

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Evoqua Water Technologies LLC	Frame System for Membrane Filtration Modules	China P.R.	ZL200980128769.9	200980128769.9	8/3/2016	7/29/2009
Evoqua Water Technologies LLC	Frame System for Membrane Filtration Modules	Republic of Korea	10-1614520	2011-7004356	4/15/2016	7/29/2009
Evoqua Water Technologies LLC	Frame System for Membrane Filtration Modules	United States	8382981	13/055284	2/26/2013	1/21/2011
Evoqua Water Technologies LLC	Improved Membrane System Backwash Energy Efficiency	Germany	602009052354.6	09808651.5	5/16/2018	8/17/2009
Evoqua Water Technologies LLC	Improved Membrane System Backwash Energy Efficiency	France	2315625	09808651.5	5/16/2018	8/17/2009
Evoqua Water Technologies LLC	Improved Membrane System Backwash Energy Efficiency	Great Britain	2315625	09808651.5	5/16/2018	8/17/2009
Evoqua Water Technologies LLC	Improved Membrane System Backwash Energy Efficiency	Netherlands	2315625	09808651.5	5/16/2018	8/17/2009
Evoqua Water Technologies LLC	Improved Membrane System Backwash Energy Efficiency	Australia	2009282912	2009282912	3/12/2015	8/17/2009
Evoqua Water Technologies LLC	Membrane System Backwash Energy Efficiency	United States	8652331	13/059283	2/18/2014	2/16/2011

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Evoqua Water Technologies LLC	Airlift Pump	Canada	130361	130361	1/26/2010	4/9/2009
Evoqua Water Technologies LLC	Airlift Pump	European Community Design	001121388-0001	001121388	4/14/2009	4/14/2009
Evoqua Water Technologies LLC *Currently listed as Siemens Water Technologies Corp. at Patent Office	Airlift Pump	India	222399	222399	4/13/2009	4/13/2009
Evoqua Water Technologies LLC *Currently listed as Siemens Water Technologies Corp. at Patent Office	Airlift Pump	Republic of Korea	3005701670000	3020090015627	8/12/2010	4/13/2009
Evoqua Water Technologies LLC	Airlift Pump	Singapore	D2009/304/Z	D2009/304/Z	6/3/2009	4/14/2009
Evoqua Water Technologies LLC	Airlift Pump	Canada	130360	130360	1/26/2010	4/9/2009
Evoqua Water Technologies LLC	Airlift Pump	European Community Design	001121388-0002	001121388	4/14/2009	4/14/2009
Evoqua Water Technologies LLC *Currently listed as Siemens Water Technologies Corp. at Patent Office	Airlift Pump	India	222400	222400	4/13/2009	4/13/2009
Evoqua Water Technologies LLC *Currently listed as Siemens Water Technologies Corp. at Patent Office	Airlift Pump	Republic of Korea	3005701670001	3020090015628	10/22/2010	4/13/2009

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Evoqua Water Technologies LLC	Airlift Pump	Singapore	D2009/303/C	D2009/303/C	5/8/2009	4/9/2009
Evoqua Water Technologies LLC	Method of Cleaning Membranes	United States	8956464	12/813748	2/17/2015	6/11/2010
Evoqua Water Technologies LLC	Fluid Control Manifold for Membrane Filtration System	United States	9022224	13/240190	5/5/2015	9/22/2011
Evoqua Water Technologies LLC	Fluid Control Manifold for Membrane Filtration System	United States	9630147	14/537576	4/25/2017	11/10/2014
Evoqua Water Technologies LLC	Fluid Control Manifold for Membrane Filtration System	European Patent Convention		11827505.6		9/22/2011
Evoqua Water Technologies LLC	Fluid Control Manifold for Membrane Filtration System	Australia	2011305377	2011305377	3/5/2015	9/22/2011
Evoqua Water Technologies LLC	Fluid Control Manifold for Membrane Filtration System	China P.R.	ZL201180045846.1	201180045846.1	4/13/2016	9/22/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	United States		15/910653		3/2/2018
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	Germany	602011058999.7	11775415.0	5/15/2019	3/28/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	Spain	2563501B	11775415.0	5/15/2019	3/28/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	France	2563501B	11775415.0	5/15/2019	3/28/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	Great Britain	2563501B	11775415.0	5/15/2019	3/28/2011

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Evoqua Water Technologies LLC	Fluid Flow Distribution Device	Hungary	2563501B	11775415.0	5/15/2019	3/28/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	Ireland	2563501B	11775415.0	5/15/2019	3/28/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	Italy	2563501B	11775415.0	5/15/2019	3/28/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	Netherlands	2563501B	11775415.0	5/15/2019	3/28/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	Australia	2011245709	2011245709	9/24/2015	3/28/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	China P.R.	201180021904.7	201180021904.7	2/3/2016	3/28/2011
Evoqua Water Technologies LLC	Fluid Flow Distribution Device	United States	9914097	13/643619	3/13/2018	3/28/2011
Evoqua Water Technologies LLC	Manifold Arrangement	United States	10391432	15/428226	8/27/2019	2/9/2017
Evoqua Water Technologies LLC	Improved Manifold Arrangement	United States		16/551305		8/26/2019
Evoqua Water Technologies LLC	Improved Manifold Arrangement	European Patent Convention		12835621.9		9/17/2012
Evoqua Water Technologies LLC	Improved Manifold Arrangement	Australia	2013200833	2013200833	1/7/2016	9/17/2012
Evoqua Water Technologies LLC	Improved Manifold Arrangement	Canada		2850309		9/17/2012
Evoqua Water Technologies LLC	Improved Manifold Arrangement	China P.R.	ZL201280058388.X	201280058388X	7/6/2016	9/17/2012

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Evoqua Water Technologies LLC	Improved Manifold Arrangement	Republic of Korea	1019644840000	10-2014-7011689	3/26/2019	9/17/2012
Evoqua Water Technologies LLC	Improved Manifold Arrangement	Singapore	11201401089P	11201401089P	7/7/2016	9/17/2012
Evoqua Water Technologies LLC	Improved Manifold Arrangement	United States	9604166	14/347258	3/28/2017	9/17/2012
Evoqua Water Technologies LLC	Isolation Valve	United States		15/901547		2/21/2018
Evoqua Water Technologies LLC	Isolation Valve	European Patent Convention		12836694.5		9/26/2012
Evoqua Water Technologies LLC	Isolation Valve	European Patent Convention		18198042.6		9/26/2012
Evoqua Water Technologies LLC	Isolation Valve	Australia	2013200808	2013200808	2/19/2015	9/26/2012
Evoqua Water Technologies LLC	Shut-off valve for isolation of hollow fiber membrane filtration module	Canada		2850522		9/26/2012
Evoqua Water Technologies LLC	Isolation Valve	China P.R.	ZL201280058473.6	2012800584736	3/22/2017	9/26/2012
Evoqua Water Technologies LLC	Isolation Valve	Republic of Korea		10-2014-7011466		9/26/2012
Evoqua Water Technologies LLC	Isolation Valve	Singapore	11201401091S	11201401091S	7/12/2016	9/26/2012
Evoqua Water Technologies LLC	Isolation Valve with Seal for End Cap of a Filtration System	United States	9925499	14/347261	3/27/2018	9/26/2012

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Evoqua Water Technologies LLC	Gas Scouring Apparatus for Immersed Membranes	Australia	2013101765	2013101765	9/29/2016	9/19/2013
Evoqua Water Technologies LLC	Device for providing air bubbles in liquid and component comprising immersed membrane module	China P.R.	201220676308.4	201220676308.4	8/28/2013	9/27/2012
Evoqua Water Technologies LLC	Gas Scourer	Australia	345286	201214822	11/1/2012	9/27/2012
Evoqua Water Technologies LLC	Flared Discharge Riser for MemPulse	China P.R.	201330084534.3	201330084534.3	5/21/2014	3/27/2013
Evoqua Water Technologies LLC	Housing for Membrane Filter Elements	European Community Design	002205385.0001	002205385	3/19/2013	3/19/2013
Evoqua Water Technologies LLC	Gas Sparging Device	United States	D785197	29/450953	4/25/2017	3/26/2013
Evoqua Water Technologies LLC	A Potting Method	Germany	602013034155.9	13808839.8	3/7/2018	6/26/2013
Evoqua Water Technologies LLC	A Potting Method	France	2866922	13808839.8	3/7/2018	6/26/2013
Evoqua Water Technologies LLC	A Potting Method	Great Britain	2866922	13808839.8	3/7/2018	6/26/2013
Evoqua Water Technologies LLC	A Potting Method	Australia	2013280452	2013280452	11/2/2017	6/26/2013
Evoqua Water Technologies LLC	A Potting Method	China P.R.	ZL201380034233.7	201380034233.7	11/23/2016	6/26/2013
Evoqua Water Technologies LLC	A Potting Method	Republic of Korea		10-2015-7001283		6/26/2013

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Evoqua Water Technologies LLC	Potting Method	United States	9533261	14/410731	1/3/2017	12/23/2014
Evoqua Water Technologies LLC	Membrane Securement Device	Australia	2013324056	2013324056	3/1/2018	9/16/2013
Evoqua Water Technologies LLC	Membrane Securement Device	Germany		112013004713.6		9/16/2013
Evoqua Water Technologies LLC	Membrane Securement Device	Great Britain		1502868.1		9/16/2013
Evoqua Water Technologies LLC	Membrane Securement Device	United States	9764289	14/429517	9/19/2017	3/19/2015
Evoqua Water Technologies LLC	Membrane Potting Methods	Australia	2013231145	2013231145	11/30/2017	9/23/2013
Evoqua Water Technologies LLC	Membrane Potting Methods	United States	9962865	14/033968	5/8/2018	9/23/2013
Evoqua Water Technologies LLC	Membrane Potting Methods	United States		15/972852		5/7/2018
Evoqua Water Technologies LLC	Polymer Blend for Membranes	United States	9868834	14/426179	1/16/2018	9/12/2013
Evoqua Water Technologies LLC	Gas Scouring Apparatus for Immersed Membranes	United States	9815027	14/428718	11/14/2017	3/17/2015
Evoqua Water Technologies LLC	Filtration Assembly	Australia	350361	201313315	8/26/2013	7/10/2013
Evoqua Water Technologies LLC	Pressurised Fibre Filtration Assembly	Canada	154639	154639	1/8/2016	1/9/2014
Evoqua Water Technologies LLC	Filtration Assembly	China P.R.	201330658356.0	201330658356.0	11/5/2014	12/31/2013

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Evoqua Water Technologies LLC	Filtration Assembly	European Community Design	001395206-0001	001395206	12/18/2013	12/18/2013
Evoqua Water Technologies LLC	Filtration Assembly for Water Tank	Republic of Korea	30-0789429	2014-0001374	3/17/2015	1/9/2014
Evoqua Water Technologies LLC	Filtration Assembly	United States	D729899	29/476930	5/19/2015	12/18/2013
Evoqua Water Technologies LLC	Filtration Manifold	Australia	350360	201313313	8/26/2013	7/10/2013
Evoqua Water Technologies LLC	Membrane Filtration Manifold	Canada	154638	154638	1/8/2016	1/9/2014
Evoqua Water Technologies LLC	Filtration Manifold	China P.R.	201330658355.6	201330658355.6	10/15/2014	12/31/2013
Evoqua Water Technologies LLC	Filtration Manifold	European Community Design	001395214-0001	001395214	12/18/2013	12/18/2013
Evoqua Water Technologies LLC	Filtration Manifold for Water Tank	Republic of Korea	30-0783734	30-2014-0001376	2/4/2015	1/9/2014
Evoqua Water Technologies LLC	Filtration Manifold	United States	D764017	29/476932	8/16/2016	12/18/2013
Evoqua Water Technologies LLC	Filtration Header	Australia	350357	201313311	8/26/2013	7/10/2013
Evoqua Water Technologies LLC	Bottom Filtration Header	Canada	154515	154515	1/8/2016	12/24/2013
Evoqua Water Technologies LLC	Filtration Header	China P.R.	201330658368.3	201330658368.3	10/15/2014	12/31/2013
Evoqua Water Technologies LLC	Water Filtration Modules	European Community Design	0013957535-0001	001395735	12/20/2013	12/20/2013

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Evoqua Water Technologies LLC	Filtration Header□Filtration Header for Water Tank	Republic of Korea	30-0789428	2013-0066356	3/17/2015	12/30/2013
Evoqua Water Technologies LLC	Filtration Header	United States	D764018	29/476934	8/16/2016	12/18/2013
Evoqua Water Technologies LLC	Filtration Components	Australia	350547	201313314	9/3/2013	7/10/2013
Evoqua Water Technologies LLC	Filtration Module	Canada	154516	154516	1/8/2016	12/24/2013
Evoqua Water Technologies LLC	Filtration Module	China P.R.	201330658354.1	201330658354.1	11/5/2014	12/31/2013
Evoqua Water Technologies LLC	Filtration Module	European Community Design	001395743-0001	001395743	12/20/2013	12/20/2013
Evoqua Water Technologies LLC	Filtration Module for Water Tank	Republic of Korea	30-0783733	30-2013-0066373	2/4/2015	12/30/2013
Evoqua Water Technologies LLC	Filtration Module	United States	D767713	29/476936	9/27/2016	12/18/2013
Evoqua Water Technologies LLC	A Method and Device for Repairing a Membrane Filtration Module	Australia		2018226464		9/25/2014
Evoqua Water Technologies LLC	A Method and Device for Repairing a Membrane Filtration Module	United States		16/581709		9/24/2019
Evoqua Water Technologies LLC	A Method and Device for Repairing a Membrane Filtration Module	European Patent Convention		14850363.4		9/25/2014

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Evoqua Water Technologies LLC	A Method and Device for Repairing a Membrane Filtration Module	Australia	2014329869	2014329869	10/25/2018	9/25/2014
Evoqua Water Technologies LLC	A Method and Device for Repairing a Membrane Filtration Module	United States		15/025702		3/29/2016
Evoqua Water Technologies LLC	Aeration Device for Filtration System	United States		16/413674		5/16/2019
Evoqua Water Technologies LLC	Aeration Device for Filtration System	European Patent Convention		16824838.3		5/16/2016
Evoqua Water Technologies LLC	Aeration Device for Filtration System	Australia		2016294153		5/16/2016
Evoqua Water Technologies LLC	Aeration Device for Filtration System	China P.R.		201680041232.9		5/16/2016
Evoqua Water Technologies LLC	Aeration Device for Filtration System	India		201817000985		5/16/2016
Evoqua Water Technologies LLC	Aeration Device for Filtration System	Singapore		11201800271W		5/16/2016
Evoqua Water Technologies LLC	Aeration Device for Filtration System	United States	10322375	15/744134	6/18/2019	5/16/2016
Evoqua Water Technologies LLC	Chemical Cleaning for Membrane Filters	Patent Cooperation Treaty		PCT/US2019/023165		3/20/2019
Evoqua Water Technologies LLC	Self Powered Module Integrity Indicator Using Piezoelectric Sensor	United States		62/728992		9/10/2018

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Evoqua Water Technologies LLC	Membrane Filtration Module	Australia		201914141		7/24/2019
Evoqua Water Technologies LLC	Membrane Filtration Module	China P.R.		2019303968997		7/24/2019
Evoqua Water Technologies LLC	Membrane Filtration Module	European Community Design		006645685.001-004		7/24/2019
Evoqua Water Technologies LLC	Membrane Filtration Module	Japan		2019-016486		7/23/2019
Evoqua Water Technologies LLC	Membrane Filtration Module	Republic of Korea		30-2019-0035624		7/24/2019
Evoqua Water Technologies LLC	Membrane Filtration Module	Malaysia		19-00894-0101		7/24/2019
Evoqua Water Technologies LLC	Membrane Filtration Module	Singapore		30201906845P		7/24/2019
Evoqua Water Technologies LLC	Membrane Filtration Module	United States		29/677895		1/24/2019
Evoqua Water Technologies LLC	Expansion Filler Module	Australia		201915247		9/11/2019
Evoqua Water Technologies LLC	Filler Module	Australia		201916901		12/4/2019
Evoqua Water Technologies LLC	Expansion Filler Module	China P.R.		2019305009379		9/11/2019
Evoqua Water Technologies LLC	Expansion Filler Module	European Community Design		006852778.0001		9/10/2019
Evoqua Water Technologies LLC	Expansion Filler Module	European Community Design		006852778-0002		9/10/2019
Evoqua Water Technologies LLC	Expansion Filler Module	Japan		2019-020370		9/11/2019

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Evoqua Water Technologies LLC	Expansion Filler Module	Republic of Korea		30-2019-004385010		9/10/2019
Evoqua Water Technologies LLC	Expansion Filler Module	Malaysia		19-01115-0102		9/11/2019
Evoqua Water Technologies LLC	Expansion Filler Module	Malaysia		19-01116-0202		9/11/2019
Evoqua Water Technologies LLC	Expansion Filler Module	Singapore		30201907044X		9/11/2019
Evoqua Water Technologies LLC	Expansion Filler Module	United States		29/683090		3/11/2019
Evoqua Water Technologies LLC	Membrane Post Treatment	United States	8057574	12/647734	11/15/2011	12/28/2009
Evoqua Water Technologies LLC	Isolation Valve	Republic of Korea		10-219-7028616		9/27/2019
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	Canada		3058737		10/11/2019
Evoqua Water Technologies LLC	Membrane Cleaning with Pulsed Airlift Pump	United States		16/664134		10/25/2019