# 503294660 05/06/2015 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3341278

SUBMISSION TYPE:		NEW ASSIGNMENT				
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		Name		Execution Date		
ZENON ENVIRONMEN		Indille		05/30/2006		
				03/30/2000		
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Name:	ZENON	TECHNOLOGY PARTNERSHIP	0			
Street Address:	1209 OF	RANGE STREET				
Internal Address:	THE CC	PRPORATION TRUST COMPAN	Y, CORPO	DRATION TRUST		
City:	WILMIN	GTON				
State/Country:	DELAW	ARE				
Postal Code:	19801					
Property Type		Number				
Application Number:	(	09975220				
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		09975220 416)361-2540				
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## WORLDWIDE ASSIGNMENT

WHEREAS, **ZENON ENVIRONMENTAL INC.**, a corporation formed in Ontario, Canada and continued in Alberta, Canada and having a place of business at 3239 Dundas Street West, Oakville, Ontario L6M 4B2, Canada, is the owner of the Patents or Applications listed in Schedule "A" and the inventions described therein (hereinafter referred to as "the Intellectual Property");

AND WHEREAS, **ZENON TECHNOLOGY PARTNERSHIP**, a partnership of ZENON ENVIRONMENTAL INC. and 1244734 ALBERTA ULC. under the laws of Delaware, U.S.A., and having a place of business at **The Corporation Trust Company, Corporation Trust Centre, 1209 Orange Street, Wilmington, Delaware, 19801 U.S.A.**, has acquired from **ZENON ENVIRONMENTAL INC.** the whole right, title and interest for all other countries in and to the Intellectual Property pursuant to an Asset Purchase Agreement between them effective May 29, 2006;

NOW THEREFORE, in consideration of good and valuable consideration as provided in the Asset Purchase Agreement, the receipt of all of which is hereby acknowledged, **ZENON ENVIRONMENTAL INC.**, confirms that as of May 29, 2006 it has sold, assigned and transferred and, for greater certainty, does hereby sell, assign and transfer unto **ZENON TECHNOLOGY PARTNERSHIP**, the whole right, title and interest in and to said Intellectual Property the same to be held and enjoyed by **ZENON TECHNOLOGY PARTNERSHIP**, for its own use and benefit and for its successors and assigns, to the full end of the terms for which Letters Patents may be granted on said Intellectual Property, as fully and entirely as the same would have been held and enjoyed by **ZENON ENVIRONMENTAL INC.**, had this assignment and sale not been made.

The undersigned hereby grant(s) the firm of Bereskin & Parr (Box 401, 40 King Street West, Toronto, Ontario, Canada M5H 3Y2) the power to insert on this assignment any further identification or to make any amendments to the description of the patents or applications which may be necessary or desirable in order to correct any clerical errors or to comply with the rules of any Patent Office for recordation of this document.

	ENVIRONMENTAL INC. has caused this
instrument to be executed this 🖄 day of	<u>Marg</u> , 2006.
	ZENON ENVIRONMENTAL INC.,
<u>745-67</u>	An- Falil
Signature of Witness Print Name: <u>Acta Acta Journ</u>	(Şeal)
8	By: Seynd der Trachumovsky Title: Chien Land Officer
IN WITNESS WHEREOF, ZENON T this instrument to be executed this <u>30</u> day of	ECHNOLOGY PARTNERSHIP has caused
ă	ENON TECHNOLOGY PARTNERSHIP,
AN CT	An Trula
Signature of Witness Print Name: <u>Actan Advertance</u>	BV: Sera Mar Trachumus kus
Ň	By: Sea Mar Trachamysky Title: Chart Load Officer of ZENON ENVIRONMENTAL INC. acting as Managing Partner of ZENON TECHNOLOGY PARTNERSHIP

I, <u>Advect to a Notary Public for the Province of Ontario</u>, Canada, certify that <u>Segment Tendemonslop</u> appeared before me today and signed and sealed this document on behalf of ZENON ENVIRONMENTAL INC. and acknowledged the same to be his free act and deed and authorized by ZENON ENVIRONMENTAL INC. IN TESTIMONY WHEREOF I have signed and affixed my notarial seal on this document on <u> $M_{wy}$  30</u>, 2006, at <u>Totanato</u> Ontario, Canada.

🔄, a Notary Public in and for the Province of Ontario

I. <u>Alexand S. Alexandrow</u>, a Notary Public for the Province of Ontario, Canada, certify that <u>Sequence Trackmonder</u> appeared before me today and signed and sealed this document on behalf of ZENON TECHNOLOGY PARTNERSHIP and acknowledged the same to be his free act and deed and authorized by ZENON TECHNOLOGY PARTNERSHIP. IN TESTIMONY WHEREOF I have signed and affixed my notarial seal on this document on

May 30, 2006, at <u>Toronto</u> Ontario, Canada.

, a Notary Public in and for the Province of Ontario

#### Schedule A – U.S.A.

Country	Application No.	Patent No.	Application Date	Issue Date	Title
U.S.A.	312149	6024872	5/14/1999	2/15/2000	Method of making a dope comprising hydrophilized PVDF and a-alumina, and a membrane made therefrom
U.S.A.	773226	5204001	10/9/1991	4/20/1993	Membrane bioreactor system for treating synthetic metal-working fluids and oil-based products
U.S.A.	501997	5227063	3/30/1990	7/13/1993	Tubular Membrane Module
U.S.A.	07/958,086	5244579	10/9/1992	9/14/1993	Transportable reverse osmosis water purification unit
U.S.A.	07/977,601	5248424	11/17/1992	9/28/1993	Frameless array of hollow fiber membranes and method of maintaining clean fiber surfaces while filtering a substrate to withdraw a permeate
U.S.A.	48915	5401400	4/19/1993	3/28/1995	Membrane bioreactor system for treating synthetic metal-working fluids and oil-based products
U.S.A.	170053	5403479	12/20/1993	4/4/1995	In situ cleaning system for fouled membranes
U.S.A.	08/170,033	5472607	12/20/1993	12/5/1995	Hollow fibre semipermeable membrane of tubular braid and method for producing it
U.S.A.	225454	5501798	4/6/1994	3/26/1996	Microfiltration enhanced reverse osmosis for water treatment
U.S.A.	410730	5558774	3/27/1995	9/24/1996	Aerated hot membrane bioreactor process for treating recalcitrant compounds
U.S.A.	08/514,119	5639373	8/11/1995	6/17/1997	Vertical skein of hollow fiber membranes and method of maintaining clean fiber surfaces
U.S.A.	512108	5670053	8/7/1995	9/23/1997	Purification of gases from water using reverse osmosis
U.S.A.	08/690,045	5783083	7/31/1996	7/21/1998	Vertical cylindrical skein of hollow fiber membranes and method of maintaining clean fiber surfaces
U.S.A.	896517	5910250	6/16/1997	6/8/1999	Baffle for conversion of fine bubbles to coarse while filtering with a vertical skein of hollow fibers
U.S.A.	886652	5914039	7/1/1997	6/22/1999	Filtration membrane with calcined a-alumina particles dispersed therein
U.S.A.	08/804,279	5958243	3/3/1997	9/28/1999	Apparatus and method for membrane filtration with enhanced net flux
U.S.A.	08/808,993	6080316	3/3/1997	6/27/2000	High resistivity water production
U.S.A.	08/944,082	6027649	10/4/1997	2/22/2000	Process for purifying water using fine floc microfiltration in a single tank reactor
U.S.A.	988105	6126834	12/10/1997	10/3/2000	High resistivity water production with controlled temperatures
U.S.A.	09/024,417	5944997	2/17/1998	8/31/1999	System for maintaining a clean skein of hollow fibers while filtering suspended solids
U.S.A.	09/056,962	5997745	4/8/1998	12/7/1999	Method for producing high purity water using triple pass reverse osmosis
U.S.A.	56964	6120689	4/8/1998	9/19/2000	High purity water using triple pass reverse osmosis
U.S.A.	09/386,575	6193890	8/30/1999	2/27/2001	System for maintaining a clean skein of hollow fibers membranes while filtering suspended solids
U.S.A.	09/365,280	6267891	7/30/1999	7/31/2001	High purity water production using PATENT

PATENT

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Country	Application No.	Patent No.	Application Date	Issue Date	Title
					ion exchange
U.S.A. U.S.A.	09/330,641 09/333,669	6258278 RE37,549	6/11/1999 6/15/1999	7/10/2001 2/19/2002	High purity water production Vertical skein of hollow fiber membranes and method of maintaining clean fiber surfaces while filtering a substrate to withdraw a permeate
U.S.A.	09/414,370	6319411	10/7/1999	11/20/2001	Method of maintaining clean vertical skeins of hollow fibre membranes and system therefor
U.S.A.	20726	6120688	2/9/1998	9/19/2000	Portable reverse osmosis for producing drinking water
U.S.A.	09/444,414	6375848	11/22/1999	4/23/2002	Water Filtration using immersed membranes
U.S.A.	09/335,073	6354444	6/17/1999	3/12/2002	Hollow fiber membrane and braided tubular support therefor
U.S.A.	258999	6042677	2/26/1999	3/28/2000	Potted header for hollow fiber membranes and method for making it
U.S.A.	09/384,638	6214231	8/27/1999	4/10/2001	System for operation of a multiplicity of membrane filtration assemblies
U.S.A.	09/856,504	6616843	8/30/2001	9/9/2003	Submerged membrane bioreactor for nitrogen treatment
U.S.A.	09/648,854	6589426	8/25/2000	7/8/2003	Ultrafiltration and microfiltration module and system
U.S.A.	09/677,703	6361695	9/30/2000	3/26/2002	Shipboard wastewater treatment system
U.S.A.	07/199,823	4897191	5/27/1988	1/30/1990	Tubular membrane module with fluid shear protection
U.S.A.	09/425,235	6547968	10/25/1999	4/15/2003	Pulsed backwash for immersed membranes
U.S.A.	09/425,236	6303035	10/25/1999	10/16/2001	Immersed membrane filtration process
U.S.A.	09/488,359	6245239	1/19/2000	6/12/2001	Cyclic aeration system for submerged membrane modules
U.S.A.	298737	4904387	6/17/1988	2/27/1990	Waste treatment and water recycling toilet system
U.S.A.	2716	5258121	1/11/1993	11/2/1993	Waste treatment with nitrate removal
U.S.A.	09/507,438	6294039	2/19/2000	9/25/2001	Potted header for hollow fiber membranes and method of making it
U.S.A.	09/505,718	6325928	2/17/2000	12/4/2001	Immersed membrane element and module
U.S.A.	60/201,175				Aerated immersed membrane system
U.S.A.	09/565,032	6893568	5/5/2000	5/17/2005	Immersed membrane filtration system and overflow process
U.S.A.	60/202,848				Gel potting method for filtering hollow fibre membranes
U.S.A.	60/206,348				Shipboard wastewater treatment system
U.S.A.	60/216,668				Multi-stage filtration and softening module and reduced scaling operation
U.S.A.	09/646,115	6406629	7/19/2000	6/18/2002	Biological process for removing phosphorus involving a membrane filter
U.S.A.	60/215,845				Shipboard wastewater treatment system
U.S.A.	09/621,234		7/20/2000		Vertical cylindrical skein of hollow fiber membranes and method of maintaining clean fiber surfaces
U.S.A.	09/893,638	6702944	6/29/2001	3/9/2004	Multi stage filtration and softening PATENT

Country	Application No.	Patent No.	Application Date	Issue Date	Title
					module and reduced scaling operation
U.S.A.	09/799,524	6558549	3/7/2001	5/6/2003	Membrane for gas transfer and membrane supported biofilm process
U.S.A.	10/105,843	6708957	3/25/2002	3/23/2004	Moving aerator for immersed membranes
U.S.A.	09/840,918	6451201	4/25/2001	9/17/2002	Distributed on-line integrity testing for immersed membranes
U.S.A.	09/848,012	6656356	5/3/2001	12/2/2003	Aerated immersed membrane system
U.S.A.	09/849,573	6620319	5/4/2001	9/16/2003	Apparatus for withdrawing permeate using an immersed vertical skein of hollow fiber membranes
U.S.A.	09/814,737	6550747	3/23/2001	4/22/2003	Cyclic aeration system for submerged membrane modules
U.S.A.	09/847,338	6592759	5/3/2001	7/15/2003	Gel Potting method and method to reduce twinning for filtering hollow fibre membranes
U.S.A.	09/892,860	6814868	6/28/2001	11/9/2004	A process for reducing concentrations of hair, trash, or fibrous materials, in a wastewater treatment system
U.S.A.	09/916,247		8/30/2001		Chemical cleaning backwash for normally immersed membranes
U.S.A.	09/889,352	6790360	11/15/2000	9/14/2004	Immersed membrane element and module
U.S.A.	09/975,220		10/11/2001	-	Vertical cylindrical skein of hollow fiber membranes and method of maintaining clean fiber surfaces
U.S.A.	10/098,365	6899812	3/18/2002	5/31/2005	Water filtration using immersed membranes
U.S.A.	10/314,334	6878276	12/9/2002	4/12/2005	Methods of making stretched filtering membranes and membrane modules
U.S.A.	10/134,449	6485645	4/30/2002	11/26/2002	Biological process for removing phosphorus involving a membrane filter
U.S.A.	10/167,699	6685832	6/13/2002	2/3/2004	Method of potting hollow fiber membranes
U.S.A.	10/171,997	6863823	6/17/2002	3/8/2005	Inverted air box aerator and aeration method for immersed membranes
U.S.A.	10/178,838	6682652	6/25/2002	1/27/2004	Apparatus for withdrawing permeate using an immersed vertical skein of hollow fibre membranes
U.S.A.	10/286,930	6814861	11/4/2002	11/9/2004	Ultrafiltration and Microfiltration Module and System
U.S.A.	10/309,819	6863817	12/5/2002	3/8/2005	Membrane Bioreactor, Process and Aerator
U.S.A.	10/734,212		12/15/2003		Integrated dissolved air flotation and immersed membrane filtration apparatus and method for using the same
U.S.A.	10/773,887		2/6/2004		Water Treatment System
U.S.A.	10/376,477	6964741	3/3/2003	11/15/2005	Apparatus for withdrawing permeate using an immersed vertical skein of hollow fibre membranes
U.S.A.	10/369,699	6706189	2/21/2003	3/16/2004	Cyclic aeration system for submerged membrane modules
U.S.A.	10/370,527	6645374	2/24/2003	11/11/2003	Membrane module for gas transfer and membrane supported biofilm

Country	Application No.	Patent No.	Application Date	Issue Date	Title
					process
U.S.A.	10/777,204		2/13/2004		Membrane supported bioreactor for Municipal and industrial wastewate treatment
U.S.A.	10/377,647		3/4/2003		Chemical cleaning backwash for normally immersed membranes
U.S.A.	10/798,310		3/12/2004		Nanofiltration system for water softening with internally staged spiral wound modules
U.S.A.	10/461,687		6/16/2003		Maintenance cleaning for membranes
U.S.A.	10/968,883		10/21/2004		Membrane bioreactor having single header membrane module
U.S.A.	10/661,518	6908547	9/15/2003	6/21/2005	Membrane module for gas transfer and membrane supported biofilm process
U.S.A.	10/969,797		10/20/2004		System and method for synthesizing a polymer membrane
U.S.A.	10/969,798		10/20/2004		System and method for synthesizing a polymer membrane
U.S.A.	10/680,145	7014173	10/8/2003	3/21/2006	Cyclic aeration system for submerged membrane modules
U.S.A.	10/681,203		10/9/2003		Multi-stage filtration and softening module and reduced scaling operation
U.S.A.	10/684,406	6881343	10/15/2003	4/19/2005	Cyclic aeration system for membrane modules
U.S.A.	10/974,886		10/28/2004		Water treatment plant with immersed membranes
U.S.A.	11/000,898		12/2/2004		Membrane module having fiber breakage protection
U.S.A.	10/786,042		2/26/2004		Potting method for membrane module
U.S.A.	10/766,846	7022231	1/30/2004	4/4/2006	Apparatus incorporating potted hollow fiber membranes
U.S.A.	11/059,693		2/17/2005		Tri-axial membrane filtration device and process
U.S.A.	10/801,660		3/17/2004	-	Supported biofilm apparatus and process
U.S.A.	11/010,037		12/11/2004		System and method for synthesizing a polymer membrane
U.S.A.	11/100,597		4/7/2005	-	Method and apparatus for removing gas bubbles from a liquid
U.S.A.	10/790,239	6899811	3/2/2004	5/31/2005	Immersed membrane apparatus
U.S.A.	10/865,928		6/14/2004		Membrane filtration module with adjustable header spacing
U.S.A.	10/890,161		7/14/2004		Ultrafiltration and microfiltration module and system
U.S.A.	10/841,440		5/10/2004		Inverted cavity aerator for membrane module
U.S.A.	11/168,405		6/29/2005		Static screens suited for use in a waste water treatment system
U.S.A.	60/583,598				Water softener and purifier
U.S.A.	11/185,175		7/20/2005		Collapsible process tank for a water purification system
U.S.A.	60/585,580				Static screens suited for use in a wastewater treatment system
U.S.A.	10/896,086		7/22/2004		Supported biofilm apparatus and process
U.S.A.	11/185,773		7/21/2005		Start-up method for filtering membranes to remove glycerin
U.S.A.	10/895,959		7/22/2004		Membrane module for gas transfer and membrane supported biofilm process
U.S.A.	11/244,976		10/6/2005		Method of locating and repairing

Country	Application No.	Patent No.	Application Date	Issue Date	Title
		· · ·			damaged hollow fibres within membrane modules and header assembly
U.S.A.	10/961,077		10/12/2004		Membrane filter cleansing process
U.S.A.	10/950,460	7022236	9/28/2004	4/4/2006	Membrane bioreactor, process and aerator
U.S.A.	60/612,515		9/24/2004		Static screen suited for use in a wastewater treatment system
U.S.A.	11/257,549		10/25/2005		Header for module of hollow fiber membranes and method of potting hollow fibres
U.S.A.	60/614,980				Membrane bioreactor having single header membrane module
U.S.A.	60/618,980				Static screens suited for use in a waste water treatment system
U.S.A.	10/941,351		9/14/2004		Hollow fiber membrane and braided tubular support therefor
U.S.A.	11/268,622				Membrane filtration assemblies for sand filter retrofit
U.S.A.	10/986,942		11/15/2004		Cyclic aeration system for submerged membrane modules
U.S.A.	11/267,130		11/7/2005		Membrane filtration process
U.S.A.	60/636,550				A method of drying porous membranes and the resulting membrane
U.S.A.	11/006,627		12/8/2004		Methods of making stretched filtering membranes and modules
U.S.A.	11/008,977		12/13/2004		Apparatus for withdrawing permeate using an immersed vertical skein of hollow fibre membranes
U.S.A.	11/006,626	7025885	12/8/2004	4/11/2006	Water filtration using immersed membranes
U.S.A.	11/038,278		1/21/2005		Immersed membrane filtration system and overflow process
U.S.A.	11/049,988		2/4/2005		Apparatus for withdrawing permeate using an immersed vertical skein of hollow fibre membrane
U.S.A.	11/052,092		2/8/2005		Inverted air box aerator and aeration method for immersed membranes
U.S.A.	11/061,629		2/22/2005		Membrane batch filtration process
U.S.A.	11/059,403		2/17/2005		Apparatus for withdrawing permeate using an immersed vertical skein of hollow fibre membranes
U.S.A.	11/102,834		4/11/2005		Apparatus for withdrawing permeate using an immersed vertical skein of hollow fibre membranes
U.S.A.	11/029,418		1/6/2005		Method of potting hollow fiber membranes
U.S.A.	11/368,525		3/7/2006		Membrane filtration module with adjustable header spacing
U.S.A.	60/673,763				Refreshing chemicals during cleaning
U.S.A.	60/659,402		10000		Hollow fiber membrane module
U.S.A.	11/101,486		4/8/2005		Water treatment system having upstream control of filtrate flowrate and method for operating same
U.S.A.	11/050,629		2/4/2005	· ·	Vertical cylindrical skein of hollow fiber membranes and method of maintaining clean fiber surfaces
U.S.A.	11/106,681		4/15/2005		Maintenance cleaning for

Country	Application No.	Patent No.	Application Date	Issue Date	Title
	·····				membranes
U.S.A.	11/388,648		3/24/2006		Chemical cleaning for membranes
U.S.A.	11/177,383		7/11/2005		Cyclic aeration system for
					submerged membrane modules
U.S.A.	60/701,996				Apparatus and method for treating
					FGD blowdown or similar liquids
U.S.A.	11/202,082		8/12/2005		Membrane supported biofilm
					process for autotrophic reduction
U.S.A.	11/255,948		10/24/2005		Cyclic aeration system for
					submerged membrane modules
U.S.A.	11/216,118		9/1/2005		Nanofiltration system for water
					softening with internally staged
					spiral wound modules
U.S.A.	11/203,197		8/15/2005		Supported membrane apparatus
					and process
U.S.A.	11/271,792		11/14/2005		Chemical cleaning backwash for
					normally immersed membranes
U.S.A.	60/721,982				Water treatment with membranes
U.S.A.	60/741,551	******			Method and apparatus for testing
					membrane integrity
U.S.A.	11/234,186		9/26/2005		Membrane filtration device and
					process
U.S.A.	60/736,859				Apparatus and method for treating
					FGD blowdown or similar liquids
U.S.A.	60/742,615	******			Flow through cassette
U.S.A.	60/740,641				Membrane filtration assemblies for
0.03.0	001110,011				sand filter retrofit
U.S.A.	11/262,750		11/1/2005		Membrane bioreactor, process and
0.0.7 (.	111202,100		11112000		aerator
U.S.A.	11/340,653		1/27/2006		Immersed membrane apparatus
U.S.A.	60/752,023		112112000		Wastewater treatment with aerobic
0.0.74	00//02,020				granules
U.S.A.	60/752,404				Flow-through aerobic granulator
U.S.A.	60/751,979				On-line process control for
0.0.7.	00//01,0/0				membrane bioreactors
U.S.A.	11/290,598		12/1/2005		Ultrafiltration and microfiltration
0.0.4.	11/200,000		12/1/2000		module and system
U.S.A.	11/302,271		12/14/2005		Water filtration using immersed
0.0.4.	11/002,271		12/14/2000		membranes
U.S.A.	60/781,915				Cell culture device and process
U.S.A.	11/357,051		2/21/2006		Supported biofilm apparatus and
0.0.7	11/00/,001		2/2 1/2000		process
U.S.A.	60/780,804				Supported curved hollow fibre
0.0.7.	00//00,004				membrane
U.S.A.	11/387,807		3/24/2006		Immersed membrane filtration
<b>0.0.</b> д.			012712000		system overflow process
U.S.A.	09/068,922	6045698	7/29/1998	4/4/2000	Method for cleaning a filtration
0.0.4.	03/000,922	0040090	1123/1880	-1-12000	installation of the type with
					immersed membranes
U.S.A.	823533	5932099	3/24/1997	8/3/1999	Installation for biological water
U.S.A.	020000	0002000	512411331	0.01999	treatment for the production of
					drinkable water
115 4	655206	5116506	2/11/1991	5/26/1992	Support aerated biofilm reactor
U.S.A. U.S.A.	961140	5238562	10/13/1992	8/24/1993	Fiber membrane elements and
U.J.M.	501140	020002	10/13/1992	012411333	modules and methods of
					fabrication for improved fluid
					separation
U.S.A.	08/718,157	5716689	10/19/1996	2/10/1998	Hollow fiber membrane carpet
0.3.A.	00//10,15/	0710008	10/18/1880	211011380	manufacturing method and an
					elementary carpet member and
					carpet
110 4	00/405 004		10/25/1999		Maintenance cleaning for
U.S.A.	09/425,234		10/25/1999		membranes
110.4	10/440.004		E/17/2000		Immersed membrane module
U.S.A.	10/146,934		5/17/2002		
U.S.A.	10/372,858	I	2/26/2003		Apparatus for withdrawing <b>PATENT</b>

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					permeate using an immersed vertical skein of hollow fibre membranes