



2025

COMPANY PROFILE

The Wayira Group Profile provides an insightful overview of our organization. It offers a snapshot of our mission, vision, values, and the core principles that guide our operations. Within its pages, you'll discover our commitment to excellence, innovation, and responsible corporate citizenship. Our profile showcases our dedication to making a positive impact on various sectors, including renewable energy, water purification, and agriculture. At SAFN, we are not just a company; we are a catalyst for positive change, pushing boundaries, and setting new standards in our pursuit of a brighter and more sustainable future.





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WELCOME MESSAGE



Mohammed Babiker CEO

I extend a warm welcome to you on behalf of WAYIRA GROUP, a distinguished leader in renewable energy, nanotechnology and water purification.


At WAYIRA GROUP, we're committed to pioneering innovative solutions to address global water challenges. Through the power of nanotechnology, we aim to revolutionize water purification and provide clean, safe water worldwide.

We value collaborative partnerships and believe your expertise aligns seamlessly with our vision. Together, we can reshape the landscape of water purification and make a lasting impact.

In this endeavor, we aren't merely solving problems; we are shaping the future. We are the architects of positive change, the champions of progress, and the trailblazers of innovation. Together, we can overcome obstacles and pioneer new frontiers.

The journey ahead is ambitious, but it's precisely this ambition that propels us forward. Remember, every challenge is an opportunity, and every achievement is a testament to our collective determination. Thank you for being part of this remarkable journey, where we inspire each other to reach greater heights.





ABOUT COMPANY

Established in 2008, WAYIRA GROUP is an internationally recognized company that excels in diverse sectors including Renewable Energy, Water Purification, Consultancy, Training, Corporate Solutions, Construction, IT, Mining, and Agriculture.

At WAYIRA GROUP, our unwavering commitment to customer satisfaction, coupled with the expertise of our highly skilled professionals and cutting-edge technology, has allowed us to consistently exceed industry standards. Our guiding philosophy, epitomized by our slogan "Above the Curve," serves as the cornerstone of our operations.

Renowned for our specialization in renewable energy solutions and state-of-the-art water purification technologies, we undertake projects of various scales, delivering exceptional results with utmost efficiency and timeliness.

Our dedication to quality is unwavering, as reflected in our extensive human resources pool across diverse engineering domains and our international consultancy services. Since our inception, we have adhered to rigorous quality management systems, including Six Sigma, QC 100, Total Quality Management (TQM), and ISO 9000, to ensure we consistently meet the highest global quality standards.

WAYIRA's accomplishments have garnered recognition in various prestigious international publications. We have provided comprehensive consulting services, business management, and advanced information technology solutions to major corporations in the United Arab Emirates and Sudan.

Furthermore, we take pride in our receipt of seven esteemed international awards, acknowledging our excellence in Quality, Technological Innovation in Business, and Green Energy Technologies. These accolades underscore our unwavering commitment to innovation and sustainability.

At WAYIRA, we remain dedicated to pushing boundaries, setting industry standards, and making a lasting impact in the domains we serve.

OUR GOAL

Our goals are to provide essential infrastructure, including clean water and reliable roads, to underserved communities through innovative technologies and within a specific timeframe. We are committed to enhancing sustainability by reducing energy consumption and waste, while ensuring long-term durability and environmental responsibility. By setting industry standards with advanced systems and methods, we actively engage local communities and expand our impact through strategic partnerships to drive positive change and development.



In the field of nanotechnology, we aim to pioneer miniaturization, achieving specific breakthroughs within a defined timeframe. Healthcare transformation is on our agenda, with innovative drug delivery, diagnostics, and therapies. Environmental sustainability involves nanomaterials for pollution remediation and improved energy efficiency in renewables. Educational outreach remains a priority to promote nanotechnology awareness and understanding.

In sum, these comprehensive goals reflect our unwavering commitment to leveraging the immense potential of nanotechnology and innovative water purification technologies to make a lasting impact on both local and global scales. Through these initiatives, we aim to improve lives, safeguard the environment, and contribute to a brighter and more sustainable future.

THE COMPANY VALUES

At WAYIRA, our core values define who we are and guide our actions:

Quality: We commit to delivering top-tier products and services, upholding rigorous quality standards.

Inclusivity and Diversity: Embracing differences fuels our creativity and collective strength, fostering an inclusive environment.

Trust and Respect: Trust is built on reliability, and respect underpins all our relationships.

Team Care: Our team members are our priority, and we invest in their well-being and professional growth.

Dedication and Ownership: We take personal responsibility, driving us towards shared goals.

Honesty and Integrity: Ethical conduct and transparency are non-negotiable.

Innovation: We nurture creative thinking, encouraging groundbreaking ideas for continuous improvement.

Proactive Citizenship: We engage in initiatives for societal well-being and sustainable development.

Accountability: We own our actions, consistently delivering on commitments.

Excellence: We strive for excellence in all aspects of our operations.

Environmental Responsibility: We're committed to sustainability, reducing our environmental footprint, and promoting a healthier planet.

These values shape our culture, driving us to make a positive impact on the world.



OUR SUBSIDIARIES



وايرا للخدمات الإستشارية المتكاملة
WAYIRA INTEGRATED CONSULTANCY SERVICES



OUR PARTNERS





OUR PROJECTS

Al Gadaref Solar Powered Water Pumps

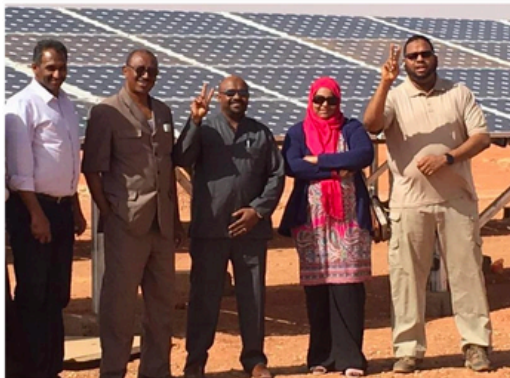
This project encompasses the installation of five submersible pump stations for drinking water. These pumps, with a capacity of 30 hp each, are equipped with Wilo pumps and motors. Sunpumps drives power these pumps using solar energy, requiring a total solar power capacity of 42 KW. The solar cells employed in this project are Jinko 275W, contributing to sustainable and efficient water supply solutions.





ALWADI ASSOCIATION FOR ANIMAL & AGRICULTURAL PRODUCTION PROJECT

This project includes the establishment of two irrigation pump stations, featuring submersible pumps with a capacity of 30 HP, capable of delivering 55 M³/H of water. The pumps and motors are proudly manufactured by Wilo, a renowned company based in the USA. These pumps are efficiently powered by Sun Pumps, also from the USA, using solar energy. Each station necessitates a 42 KW solar power supply for optimal performance. The solar cell components consist of both 250W Mono and 300W Poly types, ensuring reliable and sustainable irrigation solutions for agricultural and animal production.





Solar Powered Water Stations Project - Abu Dhabi Prince Court

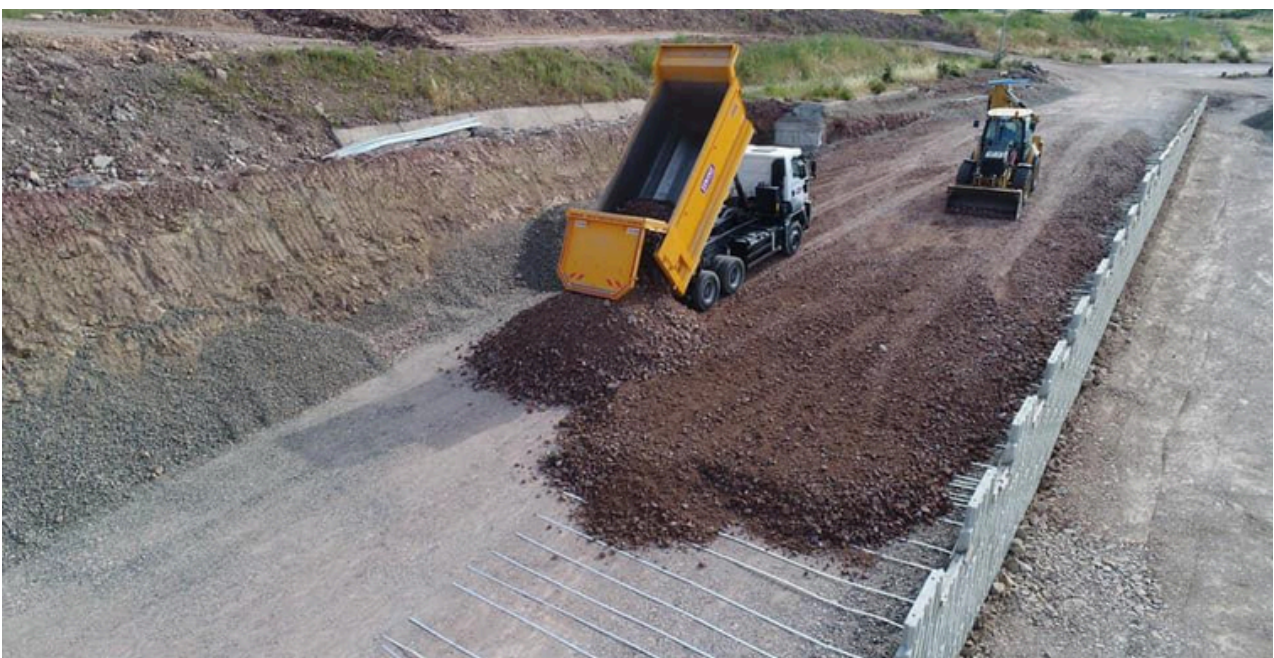
This project encompasses the installation of four drinking water pump stations, featuring submersible pumps with capacities ranging from 7.5 to 30 HP. These high-quality pumps and motors are sourced from Wilo and Sun Pumps, both reputable manufacturers based in the USA. The pumps are efficiently powered by Sun Pumps, utilizing solar energy for operation. The solar power requirements for these stations vary from 6 KW to 30 KW, with the solar cells of the 300W Poly type. This initiative ensures a reliable and sustainable supply of drinking water, powered by solar energy.





ROAD CONSTRUCTION

Wayira Group is a leading force in road construction across Africa, with over 8 years of proven expertise in delivering high-quality infrastructure projects. Our operations span Kenya, Ethiopia, Cameroon, and Sudan, where we leverage cutting-edge technology like Greencrete to build durable, cost-effective, and environmentally friendly roads. With a fleet valued at \$22 million and a strong commitment to sustainability, Wayira Group is transforming Africa's infrastructure with faster, stronger, and more sustainable road networks.



INNOVATIVE TECHNOLOGY PURECRETE

ACCELERATED CONSTRUCTION

Wayira Group's Purecrete technology allows us to build 1 kilometer of road in just 2-3 days, compared to the traditional 3-4 weeks. This fast construction reduces project timelines, minimizes disruptions, and ensures high-quality, sustainable infrastructure with locally sourced materials and advanced equipment.

DURABLE

Wayira Group's roads are 6-8 times stronger than traditional constructions, ensuring enhanced durability and longevity. This increased strength reduces the need for frequent repairs, offering long-term value and reliability for infrastructure across Africa.

COST-EFFECTIVE

Wayira Group's approach eliminates the need for imported materials by utilizing locally sourced resources. This not only reduces costs but also supports local economies and promotes sustainability, ensuring that our projects are both environmentally friendly and economically efficient.

ENVIRONMENTALLY FRIENDLY

Wayira Group's Purecrete technology is non-toxic, non-corrosive, and water-resistant, making it a safer and more durable alternative to traditional materials. This environmentally friendly solution ensures long-lasting roads that withstand harsh conditions while protecting both the ecosystem and public health.

Wayira Group's advanced fleet, valued at \$22 million, includes state-of-the-art machinery and equipment that ensures precision, efficiency, and the ability to manage large-scale projects. This extensive investment enables us to deliver high-quality roads on time and within budget, regardless of project size or complexity.



Wayira Group is a leader in road construction across Africa, with over 8 years of expertise in delivering top-tier infrastructure. Operating in Kenya, Ethiopia, Cameroon, and Sudan, we utilize innovative technologies like Purecrete to create cost-effective, durable, and eco-friendly roads. Our \$22 million fleet and commitment to sustainability enable us to build faster, stronger, and more resilient road networks, transforming Africa's infrastructure.



Burdur Yeşilova Flood Protection 3rd Group Construction Manufacturing

The project involves the construction of a 3000-meter stone-walled canal, complemented by 5 termination benches. It includes the installation of 12 culverts and 3 bridges to ensure proper drainage and water flow. Additionally, the project encompasses a 6000-meter earth canal and a 4000-meter stone-fortified canal for increased durability and stability. A 200-meter prefabricated culvert and a 200-meter grilled system stonewall channel are also part of the plan, enhancing the overall functionality of the water management system.





ALIĞA ORGANIZED INDUSTRIAL ZONE, ROAD NUMBER 19-07 CONSTRUCTION

The project also involves excavation work, including drainage works to ensure proper water management. Earth reinforcement and backfilling will be carried out to stabilize the structure. Facade panels will be installed for aesthetic and functional purposes, while steel strips will be used for additional reinforcement. Finally, road construction and landscaping will complete the project, enhancing both the infrastructure and the surrounding environment.





Burdur Yeşilova Flood Protection 4th Group Construction

The Burdur Yeşilova Flood Protection 4th Group Construction project involves the construction of a 2500-meter stone-walled canal designed to manage floodwaters effectively. It includes the installation of 3 termination benches to control flow, as well as 8 culverts to facilitate water passage. Additionally, a 250-meter gridded system stonewall channel will be built to further enhance the flood protection system and ensure proper drainage throughout the area.





Burdur Center Aziziye Kocapinar Pond and Irrigation Work Manufacturing

The project includes the construction of a clay core rock fill pond, designed for efficient water storage and management. A spillway will be incorporated to control overflow, while regulators and tersip clauses will be installed for precise water flow regulation. A relay path will be developed for access and maintenance. Additionally, the irrigation system will cover an area of 309 hectares, utilizing PE pipe irrigation for effective and sustainable water distribution across the land.





OUR AWARDS & HONORS

- Arch of Europe for Quality and Technology in Gold Category Award, (Frankfurt - Germany), 2012.
- Quality Summit Award, (NY - USA), 2013.
- BIZZ AWARD Platinum Level (Dubai - UAE), 2013.
- EBA AWARD (EUROPE BUSINESS ASSEMBLY) For “Best CEO of the year 2013”, (OXFORD – UK).
- Global Green Award, (Berlin - Germany), 2014.
- IQC Award in the DIAMOND Category, (London- UK), 2014.
- Europe Business Assembly Prestigious International award “Best Enterprise and Best Manager of the year 2015”.
- Summit ‘Excellence in Quality’, Montreux, Switzerland, 2015.
- Summit of Leaders, in the Oxford Town Hall, Oxford, UK, 2015.
- The European Awards Night and Excellence in Quality and Management Forum, Cannes, France, 2016.
- Socrates Awards Ceremony, Oxford, UK, 2016.
- Europe Business Assembly Prestigious International award “Manager of the Year 2016” , Cannes, France.
- Prime Business Destination Forum, 2016 in Bad-Ems, Germany



SCAFCO Grain Systems Company
5400 E. Broadway
PO Box 11215
Spokane, WA 99211-1215, USA

Tel: 509-535-1571 • Fax: 509-535-9130 • Mail@SCAFCO.com • www.SCAFCO.com

30 March 2017


TO WHOM IT MAY CONCERN:

SCAFCO Grain Systems Company is pleased to appoint WAYIRA GROUP as its exclusive dealer for Sudan, Eritrea, Ethiopia, Chad and United Arab Emirates. WAYIRA GROUP will be marketing SCAFCO products throughout this region.

In this regard, WAYIRA GROUP is the exclusive company in charge of SCAFCO sales to The Agriculture Bank of Sudan, Khartoum and its subsidiaries.

Congratulations to WAYIRA GROUP for taking on the task of marketing SCAFCO grain storage products throughout the region.

Sincerely,


Daniel Wamteke
Vice President

DW:dw



Reinke
Reinke Manufacturing
Company, Inc.

1040 Road 5300 • PO Box 598
Deshler, Nebraska, 68340 U.S.A.
Telephone: 402-365-7251
Fax: 402-365-4370
www.reinke.com

April 19, 2017

To whom it may concern:

Reinke is pleased to announce its formal working relationship with the Wayira Group of Sudan. Reinke has granted a non-exclusive dealership to the Wayira Group and will provide Wayira and its employees with the necessary training and support to service and maintain Reinke equipment in Sudan. Reinke looks forward to serving our customers in Sudan together with our partner, the Wayira Group.

Sincerely,


Jim Snyder

Director - Business Development
Reinke Manufacturing, Co. Inc.

Our Mission...

To Exceed Our Customers' Expectations
To Double Productive Acre Irrigation



18 November 2016

Authorization Letter

To Whom It May Concern:

Puralytics Inc, hereby names WAYIRA as our exclusive authorized distributor for sales in the MENA region. By signing this letter, Puralytics Inc, hereby authorize Wayira to offer product and services.

If you have any questions concerning this matter, please contact Puralytics at:

Address: 2827 SE 75th Ave, Hillsboro, OR, 97123, United States of America

Tel: (1) 503 – 616 2652



Mark Owen, Founder

Puralytics

www.puralytics.com



325 E Main Street
Safford AZ 85546
USA

Mr. Mohammed Babiker
Chief Executive Officer
Wayira Group
Ras Al Khaimah
RAK Free Trade Zone Authority
Business Center 4
P.O.BOX RAK -UAE 16111

August 5, 2013

Dear Mr. Babiker,

We welcome the Wayira Group as an authorized representative of Sun Pumps, and appreciate your assistance in introducing our solar pumps in the Middle East and Northern Africa. We look forward to a long and productive relationship with your company.

Kind regards,



Joe Lines
SunPumps Vice President

UNITED STATES OF AMERICA

The State of Washington

Secretary of State

I, **KIM WYMAN**, Secretary of State of the State of Washington and custodian of its seal, hereby issue this

CERTIFICATE OF FORMATION

to

WAYIRA LLC CO.

a/an WA Limited Liability Company. Charter documents are effective on the date indicated below.

Date: 5/31/2010

UBI Number: 603-020-813



Given under my hand and the Seal of the State of Washington at Olympia, the State Capital

Kim Wyman

Kim Wyman, Secretary of State

Date Issued: 7/7/2017






Commercial Licence | رخصة تجارية
Government of Ras Al Khaimah | حكومة رأس الخيمة

LICENSE NO	5007498	5007498	رقم الرخصة
LICENSEE	Mohammed Abdelrahim Babiker	محمد عبد الرحيم بابكر	ساحب الرخصة
OPERATING NAME	Wayira Group FZE	وايرا غروب م ج م ح	الإسم التجاري
ADDRESS	P.O.Box 40477 Ras Al Khaimah United Arab Emirates	ص ب 40477 رأس الخيمة الإمارات العربية المتحدة	العنوان
ACTIVITY	Trading in Solar Energy Systems, Components, Computer Equipment Requisites & Building Materials	التجارة في مكونات أجهزة الطاقة الشمسية ومواد البناء	النشاط
MANAGER	Reem Faisal Abbas Ahmed	ريم فيصل عباس أحمد	المدير
ISSUE DATE	19 April 2012	١٩ أبريل ٢٠١٢	تاريخ الإصدار
VALID DATE	18 April 2018	١٨ أبريل ٢٠١٨	تاريخ الانتهاء
REMARKS			ملاحظات



السجل التجاري: ٥٠٠٧٤٩٨ (رقم رأس الخيمة) RAK و لتتعلق بشؤونها بعد اختياره و التوافق و أنظمة و لوائح هيئة المنطقة الحرة رأس الخيمة
Valid for Ras Al Khaimah Free Trade Zone Authority Only, subject to the terms of License Agreement, Laws, Regulations and Notices of Ras Al Khaimah Free Trade Zone Authority.



		
Date of issuance: 03/05/2019		
Company Code: 108806775		
Full Registration Information of Domestic Company		
Registration date:	02/05/2019	
Last amendment date:		
Company name:	WAYIRA GROUP Ltd	
Category:	Private	
Type:	Limited by shares	
Registered Office Address:		
Address:	Kimironko, Gasabo, Umuji wa Kigali, RWANDA	
Phone number :	+250788970573	
Email:	mohammed.babiker@wayira.com	
Management details:		
Managing Director :		
Name :	MOHAMMED ABDELRAHIM HUSSEIN BABIKER	
ID Document :	PASSPORT Card No.: B00017308	
Address	Kimironko, Gasabo, Umuji wa Kigali, RWANDA	
Phone Number :	+250788970573	
Members of the Board:		
Chair Person :		
Name :	MOHAMMED ABDELRAHIM HUSSEIN BABIKER	
ID Document :	PASSPORT Card No.: B00017308	
Address	Kimironko, Gasabo, Umuji wa Kigali, RWANDA	
Phone Number :	+250788970573	
Capital Information:		
Share capital:	100000000	
Share Groups:		
No. of shares:	100	
Total capital:	100000000	
Share Par Value Details:		
Serial No:	484386	
		Page No: 1 / 3

	Republic of South Sudan	
Ministry of Justice		
The Registrar of Companies, NGOs, Societies and Associations, Office of the Chief Registrar		
Reg. No:.....	12,638	
<u>Certificate of Incorporation</u>		
I,	Peter Gatkouth Kor, Chief Registrar of Companies, NGOs, Societies and Associations, hereby certify that	
	WAYIRA GROUP COMPANY is this day	
	Incorporated in accordance with the South (New) Sudan Company Act, 2003.	
Given under my hand at Juba, South Sudan this	12TH	day of DEC 20 21
	Signature	
	 Chief Registrar Ministry of Justice	



DEPARTMENT OF THE TREASURY
WASHINGTON, D.C. 20220

License No. SU-2014-314079-1

SUDANESE SANCTIONS REGULATIONS

LICENSE

(Granted under the authority of 50 U.S.C. §§ 1601-51, 1701-66, Executive Orders 13067 and 13412, and 31 C.F.R. Parts 501 and 538.)

To: Sun Pumps, Inc.
c/o Providence Trade and Development, LLC
8 Haddon Place
Fort Washington, PA 19034
Attn: Alexander Henkels

1. Based on your request dated November 17, 2014, on behalf of Sun Pumps, Inc., to the Office of Foreign Assets Control (the "Application"), and information otherwise available to the Office of Foreign Assets Control, the transactions and activities delineated herein are hereby authorized.
2. This License is granted upon the statements and representations made in the Application, or otherwise filed with or made to the Treasury Department as a supplement to the Application, and is subject to the condition, among others, that the Licensee will comply in all respects with all regulations, rulings, orders and instructions issued by the Secretary of the Treasury under the authority of the International Emergency Economic Powers Act (50 U.S.C. 1701 et seq.), the National Emergencies Act (50 U.S.C. 1601 et seq.), and the terms of this License.
3. The Licensee shall furnish and make available for inspection any relevant information, records or reports requested by the Secretary of the Treasury, or any other duly authorized officer or agency.
4. This License expires on August 31, 2017, is not transferable, is subject to the provisions of Executive Orders 13067 and 13412, and any regulations and rulings issued pursuant thereto, including 31 C.F.R. Parts 501 and 538, and may be revoked or modified at any time in the discretion of the Secretary of the Treasury. If this License was issued as a result of willful misrepresentation on the part of the applicant or his duly authorized agent, it may, in the discretion of the Secretary of the Treasury, be declared void from the date of its issuance or from any other date.
5. This License does not excuse compliance with any law or regulation (including reporting requirements) administered by the Office of Foreign Assets Control or another agency applicable to the transaction(s) herein licensed, nor does it release Licensee or third parties from civil or criminal liability for violation of any law or regulation.

Issued on behalf of the Secretary of the Treasury:

OFFICE OF FOREIGN ASSETS CONTROL

By  August 3, 2015
Date
David J. Blackborow
Assistant Director for Licensing

Attention is directed to 18 U.S.C. § 1601, 50 U.S.C. § 1705, and 31 C.F.R. § 538.701 for provisions relating to penalties.

License No. SU-2014-314079-1

Page 2 of 2

SECTION 1 - AUTHORIZATION: (a) Subject to the terms and conditions stated herein, Sun Pumps, Inc. (the "Licensee") is authorized to engage in all transactions necessary to provide U.S.-origin solar powered pump systems and solar powered electrical systems for center pivot irrigation systems to power the Valmont system and other center pivot irrigation systems to Wayira Group for resale to Sudan, as described in the Application.

(b) Payment may be made by cash in advance, open account financing, or letter of credit to be issued by a third-country financial institution that is not a U.S. person, consistent with the provisions of 31 C.F.R. section 538.525.

SECTION 2 - CONDITIONS: (a) This License does not excuse a U.S. person from the need to comply with other provisions of 31 C.F.R. Chapter V, and with other applicable provisions of law. Such requirements include the Export Administration Regulations, 15 C.F.R. Parts 730 et seq., administered by the Department of Commerce, and the International Traffic in Arms Regulations, 22 C.F.R. Parts 120-130, administered by the Department of State.

(b) Prior to any export under this license, the Licensee must obtain and attach to this License a Commerce Commodity Classification (CCATS) and/or a copy of the Department of Commerce, Bureau of Industry and Security license authorizing the export of controlled goods associated with this License.

SECTION 3 - WARNING: (a) This License does not authorize the transfer of any blocked property, the debiting of any blocked account, the entry of any judgment or order that effects a transfer of blocked property, or the execution of any judgment against property blocked pursuant to any Executive order or 31 C.F.R. Chapter V.

(b) Nothing in this License authorizes the transfer to or receipt of funds or other property, directly or indirectly, from any entity or individual whose property or interests in property are blocked pursuant to any Executive order or 31 C.F.R. Chapter V.

(c) Except as authorized in SECTION 1 of this License, nothing in this License authorizes transactions prohibited by any Executive order or by any other laws and regulations administered by the Office of Foreign Assets Control, including the Sudanese Sanctions Regulations, 31 C.F.R. Part 538.

(d) Any transfers of funds through the U.S. financial system pursuant to the authorization set forth above should reference the number of this License to avoid the blocking or rejection of the transfer.

SECTION 4 - RECORDKEEPING AND REPORTING REQUIREMENTS: In accordance with 31 C.F.R. Part 501, the Licensee is required to keep full and accurate records of all transactions engaged in pursuant to the authorization contained in this License. Such records shall be made available for examination upon demand for at least five years from the date of each transaction. Such records shall clearly demonstrate the applicability of the authorization set forth in SECTION 1 hereof. (Attention is drawn to the recordkeeping, retention and reporting requirements of 31 C.F.R. §§ 501.601 and 501.602.)

SECTION 5 - PRECEDENTIAL EFFECT: The authorization contained in this License is limited to the facts and circumstances specific to the Application.

FRANKFURT 2012

Certificate

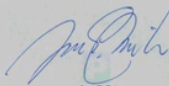
Wayira Group Company Limited

For immeasurable contribution to the business world,
for high standing and professionalism
demonstrated by prestigious performance,
Business Initiative Directions presents its
special recognition award.

ARCH OF EUROPE
FOR QUALITY AND TECHNOLOGY
IN GOLD CATEGORY

Frankfurt, April 30, 2012




Jose E. Prieto
President



BUSINESS INITIATIVE DIRECTIONS - General Yagüe, 11 - 28020 Madrid - SPAIN - Tel: +34 91 597 33 69

QUALITY SUMMIT
NEW YORK
2013

Certificate

NEW YORK CONVENTION 2013

Wayira Group
Company Limited

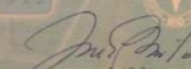
awarded with the

QUALITY SUMMIT
NEW YORK 2013

PLATINUM AWARD FOR EXCELLENCE
AND BUSINESS PRESTIGE

In recognition of the continuous search for
quality demonstrated by the achievement
of ongoing development and innovation
applied to solutions which create business results

New York, 27th of May, 2013


Jose E. Prieto
President and CEO of Business Initiative Directions

BUSINESS INITIATIVE DIRECTIONS - General Yagüe, 11 - 28020 Madrid - SPAIN - Tel: +34 91 597 33 69



SUDANESE SANCTIONS REGULATIONS

LICENSE

(Granted under the authority of 50 U.S.C. §§ 1601-51, 1701-06, Executive Orders 13067 and 13412, and 31 C.F.R. Parts 501 and 538.

To: Sun Pumps, Inc.
c/o Providence Trade and Development, LLC
8 Haddon Place
Fort Washington, PA 19034
Attn: Alexander Henkens

- Based on your request dated April 27, 2016, on behalf of Sun Pumps, Inc., to the Office of Foreign Assets Control (the "Application"), and information otherwise available to the Office of Foreign Assets Control, the transactions a activities delineated herein are hereby authorized.
- This License is granted upon the statements and representations made in the Application, or otherwise filed with made to the Treasury Department as a supplement to the Application, and is subject to the conditions, among other that the Licensee will comply in all respects with all regulations, rulings, orders and instructions issued by the Secretary of the Treasury under the authority of the International Emergency Economic Powers Act (50 U.S.C. 17 et seq.), the National Emergencies Act (50 U.S.C. 1601 et seq.), and the terms of this License.
- The Licensee shall furnish and make available for inspection any relevant information, records or reports requested by the Secretary of the Treasury, or any other duly authorized officer or agency.
- This License expires on January 31, 2019, is not transferable, is subject to the provisions of Executive Order 13067 and 13412, and any regulations and rulings issued pursuant thereto, including 31 C.F.R. Parts 501 and 5 and may be revoked or modified at any time in the discretion of the Secretary of the Treasury. If this License is issued as a result of willful misrepresentation on the part of the applicant or his duly authorized agent, it may, in discretion of the Secretary of the Treasury, be declared void from the date of its issuance or from any other date.
- This License does not excuse compliance with any law or regulation (including reporting requirements administered by the Office of Foreign Assets Control or another agency applicable to the transaction(s) he licensed, nor does it release Licensee or third parties from civil or criminal liability for violation of any law regulation.

Issued on behalf of the Secretary of the Treasury:

OFFICE OF FOREIGN ASSETS CONTROL

By: 
David J. Blackborow
Assistant Director for Licensing
December 16, 2016
Date

Attention is directed to 18 U.S.C. § 1001, 50 U.S.C. § 1705, and 31 C.F.R. § 538.701 for provisions relating to penalties.

SECTION 1 - AUTHORIZATION: (a) Subject to the terms and conditions stated herein, Sun Pumps, Inc. (the "Licensee") is authorized to engage in all transactions necessary to sell Reinke Manufacturing's irrigation systems, including components such as sprinklers, center pivot systems, lateral move systems, control panels and boxes, drive trains, variable rate irrigation controls, water pipes and various accessories to Wayira Group for resale to Sudan, as described in the Application.

(b) Payment may only be made by cash in advance; sales on open account, provided that the account receivable may not be transferred by the person extending the credit; or financing by third-country financial institutions that are neither a U.S. person nor a Government of Sudan entity. Financing by third-country financial institutions may be confirmed or advised by U.S. financial institutions.

SECTION 2 - CONDITIONS: (a) It is a condition of this License that the Licensee obtain all required U.S. Government approvals prior to engaging in the transactions authorized herein. Such requirements include those under the Export Administration Regulations, 15 C.F.R. parts 730 et seq., administered by the Department of Commerce, and the International Traffic in Arms Regulations, 22 C.F.R. parts 120-130, administered by the Department of State.

(b) In connection with any export under this License, the Licensee must provide to any party providing services related to that export a copy of this License and a copy of, as applicable, a Commerce Commodity Classification and/or a copy of the Department of Commerce, Bureau of Industry and Security license authorizing the export of controlled goods associated with this License.


SECTION 3 - WARNINGS: (a) This License does not authorize the transfer of any blocked property, the debiting of any blocked account, the entry of any judgment or order that effects a transfer of blocked property, or the execution of any judgment against property blocked pursuant to any Executive order or 31 C.F.R. Chapter V.

(b) Except as authorized in SECTION 1 of this License, this License does not authorize transactions prohibited by any Executive order or by any other laws and regulations administered by the Office of Foreign Assets Control, including the Sudanese Sanctions Regulations, 31 C.F.R. Part 538.

(c) Any transfer of funds through the U.S. financial system pursuant to the authorization set forth above should reference the License number to avoid the blocking or rejection of the transfer.

SECTION 4 - RECORDKEEPING AND REPORTING REQUIREMENTS: The Licensee is subject to the recordkeeping and reporting requirements of, inter alia, 31 C.F.R. §§ 501.601 and 501.602, including the requirement to maintain full and accurate records concerning the transactions undertaken pursuant to this License for a period of five years from the date of each transaction. All records of transactions conducted pursuant to this License must be made available to the Office of Foreign Assets Control upon request.

SECTION 5 - PRECEDENTIAL EFFECT: The authorization contained in this License is limited to the facts and circumstances specific to the Application.



EUROPE BUSINESS ASSEMBLY
ACADEMIC UNION
Empress Court, 2 Woodins Way, Paradise Street, Oxford, OX11HF

Mr. Mohammed A. Babiker
CEO, Wayira Group

Dear Sir,

On behalf of the Academic Union Oxford - the prestigious multicultural academic community of professionals, researchers, practitioners, inventors, let me express my appreciation to you personally and your successful dynamically developing medical institution. The Academic Union Oxford (based in Oxford, UK) aims at integration of the fundamental science with the workable business strategies.

I hope for further collaboration and would like to propose to you as an efficient manager whose business case and achievements are worth attention of peers, to confirm the nomination made by the Academic Union Oxford.

The Academic Union Oxford Council has nominated you to receive the title of the Honorary Professor of the Academic Union Oxford in the field of business and management. This nomination and the initiative are realized together with the Socrates Nomination Committee - the major non-government organization, which activities are aimed at developing of the international collaboration and bringing solutions for the global social issues.



Your confirmation will bring new promotion opportunities to your activities in Europe and beyond. You will be able to present your technologies and know-hows in business and management and engage the target audience from 58 world countries.

After undergoing all nomination procedures you will receive the title of the Honorary Professor of the Academic Union, Oxford. The Socrates Almanac (ISSN 2053-4736) will publish your personal and company profiles, presentational and scientific articles.

For presenting of attributes of the Honorary Professor of the Academic Union, Oxford title - Diploma, academic robes and chain - we are honored to invite you to attend the Oxford Summit of Leaders and Socrates Awards Ceremony - 2018 which will be held on the 18th of December in Oxford Town Hall UK.

We are confident that your personal participation, vast knowledge and erudition will enrich the summit agenda and positively influence the Academic Union Oxford initiatives. We do hope the summit will be interesting and useful for you as well. In case of the no ability to be present personally, the attributes will be delivered to you by courier.

Anna Jones
Academic Union Executive Secretary
e-mail: coord@ntoscontact@summitleaders.org.uk
jonesanna362@gmail.com
tel: +44 (0) 7852160605
WhatsApp/Viber: +447852160605
https://www.summitleaders.org.uk/


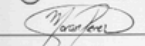



Upon the recommendation of our Evaluation Committee we confer on



Wayira Group

THE RECOGNITION OF
ENTREPRENEURIAL COMPANY
WITH ALL ITS RIGHTS AND PRIVILEGES

Given in the city of Dubai, United Arab Emirates in September 25th of the year two thousand and thirteen.

PRESIDENT
JESUS J. MORAN

VICE PRESIDENT
MICHAEL I. BELLIDO



Attention: Ahmed Osman EL Amin
WAYIRA Group Company

November 06, 2018

We are pleased to confirm to your esteemed side that Jinko will be honored to support WAYIRA Group Company in potential markets of North East Africa in various sectors on supply of PV modules and have WAYIRA Group Company as one of their agents in these potential markets in North East Africa.

Yours Sincerely,

Ahmed Khaleed

Sales Manager North East Africa

Remark: Our offers / quotes are without obligation and subject to a written contract stipulating all contractual terms signed by both parties. Any orders are only binding if confirmed by us in writing.



Jinko Solar Co., Ltd.
Cairo - Egypt
+201207235342





Caipos GmbH
Wireless Soil Moisture & Climate Monitoring

AUTHORIZED DISTRIBUTOR LETTER

Date: 05.06.2015

We:

Caipos GmbH
Schillerstrasse 5
8200 Gleisdorf
Austria
Tel.: +43 664 253 77

Confirm the appointment of Wayira Engineering Co. Ltd, Khartoum, Sudan as an exclusive authorized representative of products/services of Caipos GmbH.

Wayira Engineering Co. Ltd is authorized to promote, bid and sell Caipos GmbH's products/services in Sudan.

This letter is valid until the end of the validation of the distributor contract.

Sincerely,

Vitaly Ignatovich.

General Manager

Caipos GmbH



Caipos GmbH, Schillerstrasse 5, 8200 Gleisdorf, Austria. www.caipos.com info@caipos.com
T: +436642537747, FN: 385474z, VAT ID: ATU67487828, Tax ID: 259/9917



WILO MIDDLE EAST FZE
Jebel Ali Free Zone - South
PO BOX 262720
Dubai
United Arab Emirates
Tel : +9714-8809177
Fax : +9714-8809188

Date: February 7th, 2017

TO WHOME IT MAY CONCERN

We, **Wilo Middle East FZE**, Jebel Ali Free Zone, Showroom #A1SR02, Dubai, UAE hereby confirm that "**WAYIRA GROUP**", Rak Freezone Authority Ras Al Khaimah - Al Nakheel ,Business Centre 4 ,Floor 8 ,+971555947132 is one of our certified distributors in the country of United Arab Emirates.

Hence, we're committed to extend our complete support to "**WAYIRA GROUP**" in order to assure offering the best of our services and the satisfaction for our end Users & Clients.

Sincerely yours,

Wilo Middle East FZE,

Bishara Khalil
Managing Director
Wilo Middle East FZE



WILO Middle East FZE
Tel: 00 971 4 880 91 77
Fax: 00 971 4 880 91 88

Jebel Ali Free Zone - South
PO BOX 262720
Dubai - United Arab Emirates



Date: 18 December 2017

To Whom It May Concern,

Merlin Digital General Trading LLC, with its head quarters at Showroom No 3, Al Thouraya Bldg, Sheikh Zayed Road, Dubai, UAE 45679, hereby confirms that we have appointed:

WAYIRA Engineering Co. Ltd

As our distributor in Sudan, you are entitled to offer and to sell the products and/or sold by us under the brand name "MERLIN". Furthermore, Wayira Engineering Co. Ltd is responsible for the sales and services of the MERLIN products in Sudan territory. This agreement is valid until further notice.

Mr Suhail Hiro Bachani

CEO, Merlin Digital General Trading LLC

Merlin Digital General Trading L.L.C. (ش.ذ.م.م) مرلين دييجيتال للتجارة العامة

HQ: Showroom No. 3, G+M Floor, Al Thouraya Building, Sheikh Zayed Road, Dubai. Tel: +971-4-380-4440 Fax: +971-4-380-4416

SHOWROOM | DUBAI Computer Plaza, Shop No. M128, Al-Ain Centre, Dubai. Tel: +971-4-359-0175

www.merlin-digital.com



December 10, 2020

Mohammed Babiker
CEO, Wayira Group

Dear Mohammed,

This letter confirms Wayira Group's appointment as our sales agent for Sudan and South Sudan.

We look forward to serving our customers in Sudan and South Sudan together with our partner Wayira Group.

Sincerely

For and on behalf of
SUNSHINE ENERGY LIMITED
Mr. Soliman Young
Marketing Director
H/P: +86 133 2285 8504
E-mail: info@sunshine-energy.cn

阳光能源有限公司

SUNSHINE ENERGY LIMITED

E-mail: info@sunshine-energy.cn

TEL: +86 133 2285 8504 - +86 185 6606 8856

ADD: 1# B Area, Yanshi Industrial Zone, Xixiang street, Bao'an, Shenzhen, China

Website: www.sunshine-energy.cn

Where there is no grid, there is solar power from Sunshine Energy!

Ligzon™

Letter of Authorization

This is Ligzon Tech Ltd to confirm the authorization to Dr Eng Mohammed Babiker, Founder and CEO of Golden Clay for Consultancy & Development, with registered office address Suite 302 Amlak Tower, Obaid Khaimah St.Hai Alsafa Khartoum, Sudan as Ligzon's exclusive sales agent for Ligzon's full range of products include but not limit to IoT Solar LED Street Light & IoT Traffic Light etc in Sudan market.

His role include but not limit to:

1. Look for new clients
2. Present the product to the market
3. Negotiate the potential order with the prospective clients
4. Follow up clients request.
5. After sales service.

Dr Eng Mohammed Babiker could be reached at :

Email: info@golden-clay.com

Mobile no. (249) 90000121

Ligzon will provide necessary business assistance, technical supports & after sales service etc to Golden Clay.

Yours faithfully

Marco Lam

Managing Director

Date : 20th Oct,2022

Rm 21,25/F, WellFung Icd Center, 68 Ta Chuen Ping Str, Kwai Chun, Hong Kong.
Tel : 852 92219218 Fax 852 23387281


Dealer Authorization Letter

We, EcoFlow Inc., as producer and owner of EcoFlow branded portable power station products, hereby declare **GOLDEN CLAY for Consultancy & Development Co. Ltd.**, a company founded and existing under the laws of Sudan with its head office at Khartoum-Sudan-Hai Elsafa Area-Obaid Khatim St. - Alamlak Tower, is an Authorization Dealer of EcoFlow.

Authorization territory: Sudan and South Sudan.

Kind regards,

EcoFlow Inc.
Regional sale director: Wu Jianjun

Signature: 
Date: *Wu Jianjun*
2022.9.21

INOMAX

Authorization Certificate

This is to certify that

GOLDEN CLAY for Consultancy & Development Co.Ltd

Address:Khartoum-Sudan-Hai Elsafa Area-Obaid Khatim St. - Alamlak Tower

is Authorized distributor in Sudan for

Solar Pumping Inverters

SHENZHEN INOMAX TECHNOLOGY CO.LTD





PURE ONE ENVIRONMENTAL INC.

Purify Undesirable Refuse Environmentally

22754 Islamare Ln, Lake Forest, Ca 92630
Web Site: [HTTP://WWW.purecrete.info](http://www.purecrete.info)
Phone: (949) 400-2066 (714) 641-1430
E-mail: pureoneusa@gmail.com

Safe Environmental Products are our Specialty

2/23/2023

From: Pure One Environmental, Inc.
TO: GOLDEN CLAY FOR CONSULTANCY & DEVELOPMENT
Suite NO 302, 3rd Floor AMLAK TOWER
Obaid Khatim Street,
Khartoum, Sudan

RE: Authorization to Distribute in Northern Sudan, Southern Sudan and Chad and Niger

To Whom It May Concern:

GOLDEN CLAY FOR CONSULTANCY & DEVELOPMENT is the authorized importer, distributor, training instruction and contractor for the deployment of the Pure Crete Road Base System. Their charge is to build road base according to the Pure Crete application protocol or supervise the application which is required to conform to the requirement for the warranty. All Pure Crete processing must be trained and supervised by Pure Crete Road Base System personnel to assure quality assurance.

GOLDEN CLAY FOR CONSULTANCY & DEVELOPMENT is authorized and has the exclusive rights to distribute in the Country of Northern Sudan, Southern Sudan, Chad and Niger. The standard terms and conditions of the of the Pure Crete protocol apply.

Submitted,

Jim Jordan
President/CEO



USGBC
MEMBER

SILVER

WAYIRA GROUP

USGBC MEMBER SINCE 2021

is an active member of the U.S. Green Building Council, the foremost coalition of leaders working to transform the way buildings and communities are designed, built and operated. Our vision is that buildings and communities will regenerate and sustain the health and vitality of all life within a generation.

This membership was awarded on April 24, 2021.

MAHESH RAMANUJAM
President & CEO

Puralytics Awards

- 2015 Backpackers Gear Test - Great Concept Award
- 2014 OEN Game Changer Award – most likely to change the world
- 2014 BlueTech Research Disrupt-o-meter Award, Most Innovative and Disruptive Water Technology
- 2014 USTechH2.O Exemplary US Water Technology
- 2013 International Water Association Global Honor Award for Drinking Water Supply
- 2013 Innovation in Sustainability Award
- 2013 BlueTech Innovation Tracker Award
- 2012 Inc Magazine Top 8 Best Water Investment
- 2012 5 Star GIIRS Rating from BLabs
- 2011 Cleantech National Investor Conference "Most Fundable"
- 2011 Global Cleantech 100
- 2011 Zino Green Fund, Best Cleantech Investment
- 2011 The Artemis Project, named a Top 50 Water Technology Company
- 2011 TechCrunch Award finalist in the Cleantech category
- 2010 ImagineH2O finalist twice for both water and energy efficiency
- 2010 National Grandprize in the Cleantech Open, Best Business
- 2010 Global Water Intelligence, Water Investment Idol





SAFN



Sudanese/Saudi American Factory for Nanotechnology

In response to the critical issue of contaminated water, SAFN was founded in 2020 by a visionary team determined to tackle this pressing challenge. The company's primary mission is to revolutionize water purification through cutting-edge nanotechnology. As part of the Wayira Group, a distinguished conglomerate recognized for its unwavering commitment to innovation and sustainable solutions across industries, SAFN is dedicated to addressing the global problem of contaminated water sources.



As a subsidiary of Wayira Group, SAFN inherits a legacy of excellence and a deep-rooted commitment to environmental stewardship. With the strong support and strategic guidance of Wayira Group, SAFN has emerged as a beacon of hope, driven by innovation and an unwavering mission to provide sustainable, safe, and accessible clean water solutions to communities worldwide.

In sum, these comprehensive goals reflect our unwavering commitment to leveraging the immense potential of nanotechnology and innovative water purification technologies to make a lasting impact on both local and global scales. Through these initiatives, we aim to improve lives, safeguard the environment, and contribute to a brighter and more sustainable future. Our story is one of unwavering dedication to environmental responsibility. SAFN, under the Wayira Group's guidance, works tirelessly to ensure clean, safe water is accessible to all.

OUR PRODUCTS

SolarBag™ 3L Sunlight Activated Reusable Water Purifier

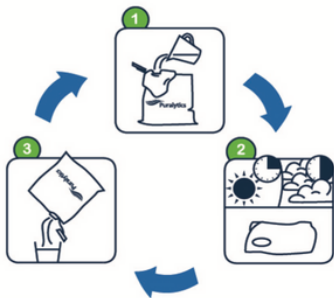
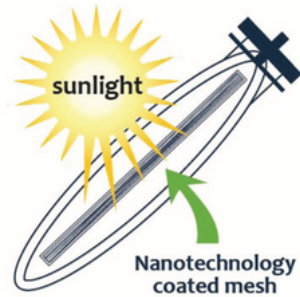
SAFN's state-of-the-art nanotechnology-driven water purification system excels in its capacity to treat a diverse range of contaminants, making it a versatile solution for a multitude of scenarios. From eliminating harmful bacteria, viruses, and protozoa to removing petrochemicals, pesticides, herbicides, heavy metals, and pharmaceuticals, SAFN's advanced technology ensures comprehensive water purification.

Our system's adaptability extends beyond its impressive contaminant removal capabilities. It is tailored to serve a wide array of critical applications, including emergency preparedness, rapid disaster relief efforts, sustainable solutions for developing regions, and vital support for non-governmental organizations (NGOs). SAFN is dedicated to providing comprehensive and effective clean water solutions, making clean and safe water accessible wherever and whenever it is needed.



The reusable SolarBag 3L is a purification, transport, and storage system for use with unclean water. Without using chemicals, consumables, or power, the SolarBag 3L is able to remove microorganisms, organic contaminants, and heavy metals from water.

Sunlight, even on a cloudy day, activates our new, powerful purification capability. Treats up to 2-gallons of water per day. Reusable hundreds of times.



Fill with water from any fresh water source, using supplied filter or cloth. Expose to sunlight or open sky, 23- hours on a sunny day, or 46- hours on a cloudy day or if the source water is tea-colored. Enjoy your safe, purified water! Again, and again, and again .

Simple, Safe, Effective

Capacity: 3 liters
 Bag dry weight: 4 oz/105 g Dry Shelf life > 5 years BPA Free
 Made in USA



PROTECTS AGAINST HARMFUL CONTAMINANTS	SOLARBAG®	PARTICLE FILTERS	TREATMENT TABLETS	UV STERILIZERS
BACTERIA	✓	✓	✓	✓
VIRUSES	✓	✗	✓	✓
PROTOZOA	✓	✓	✓	✓
PESTICIDES	✓	✗	✗	✗
HERBICIDES	✓	✗	✗	✗
PETROCHEMICALS	✓	✗	✗	✗
PHARMACEUTICALS	✓	✗	✗	✗
ARSENIC	✓	✗	✗	✗
LEAD	✓	✗	✗	✗
MERCURY	✓	✗	✗	✗

Meets U.S. EPA Guidelines for Microbiological Water Purifiers
 Pathogen Reductions: Bacteria: 99.9999%, Viruses: 99.99%, Protozoa (cryptosporidium, giardia): 99.9%

SHIELD 1000

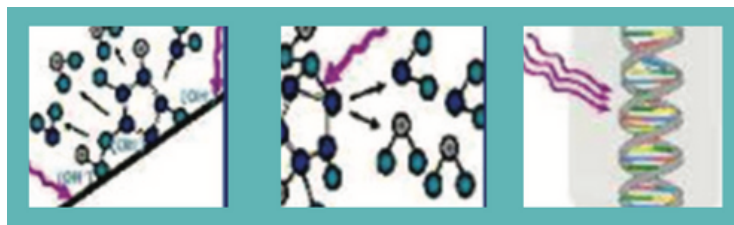
LED Powered Water Purification

A New Photochemical Purification Process



Introducing Shield 1000, SAFN's advanced water purification technology. Shield 1000 offers comprehensive contaminant coverage, including bacteria, viruses, protozoa, petrochemicals, pharmaceuticals, pesticides, herbicides, and heavy metals. With its versatility and effectiveness, Shield 1000 ensures clean and safe water, addressing a wide range of environmental and public health concerns.

Five Light-Activated Processes



Photocatalytic Oxidation

Photolysis

Photo Disinfection



Photoadsorption

Photocatalytic Reduction

The Shield uses LEDs to activate nanotechnology coated mesh to purify water and activate the five light-activated processes. The Shield is a compact, simple to install water purifier that can be used in drinking, industrial and lab water applications. The Shield has the broadest contaminant coverage and provides the simplest use of any product on the market, with the lowest operating costs.



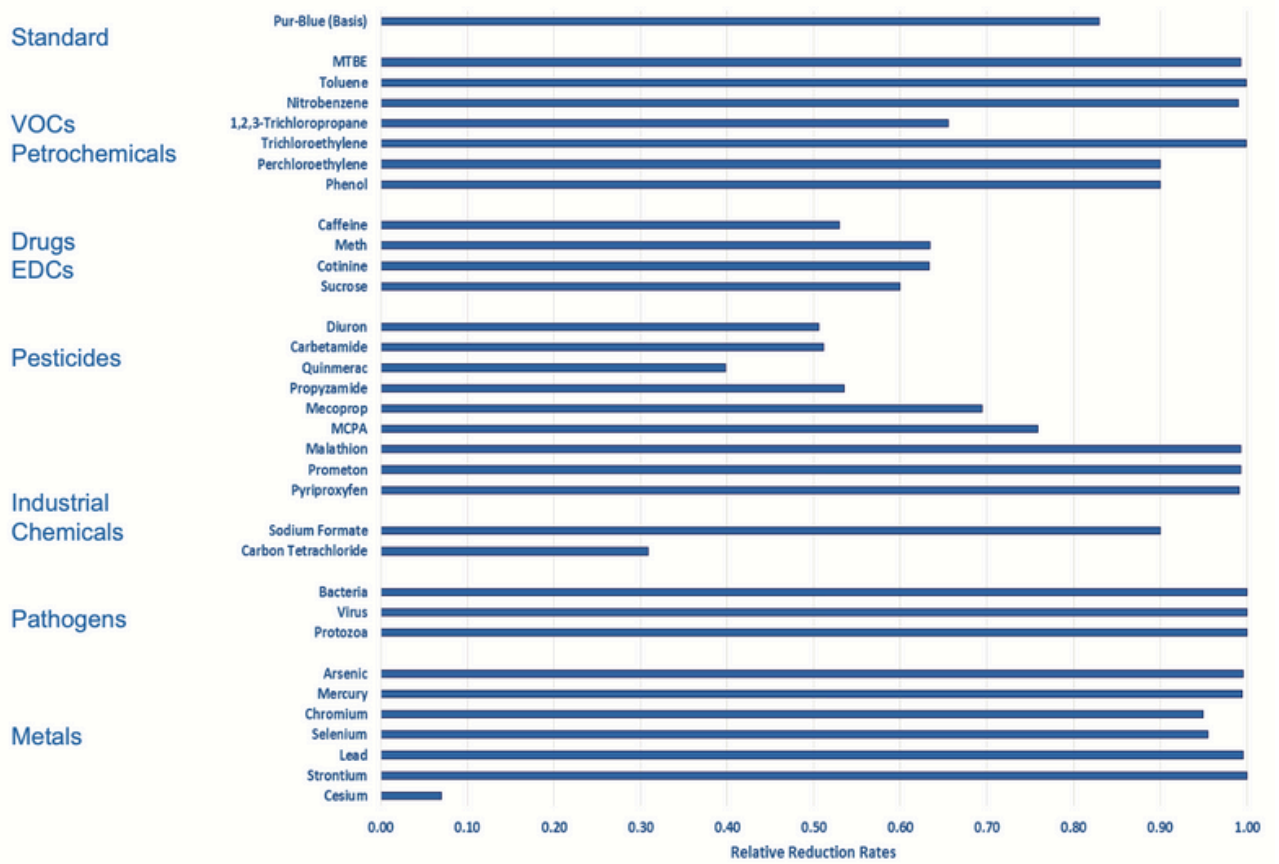
Shield Product Information

- Water Recovery: 100%
- Water Production: 500–1000 gallons per day
- Pressure Drop: 10–20 psi (@ 5001000- gpd)
- Power Consumption: 570 Watts
- Power Input: 100240-V 50Hz-60Hz
- Operating Temp: 5oC–55oC
- Dim: 32”Hx12”W x18”D | 81.3x30.5x45.7cm
- Weight: 60 lbs. | 27.2kg
- Simple to replace consumables
- Easy integration
- No chemical additives

New Purification Technology for Critical Applications

Shield 1000, our advanced water purification technology, acts as a final barrier against contaminants in various water sources, including municipal, desalinated, or well water. It effectively removes emerging contaminants like pharmaceuticals and pesticides. In industrial applications, it enhances process yields and quality by eliminating organic compounds, heavy metals, and pathogens without the need for chemicals or maintenance. In labs, Shield 1000 achieves ultrapure TOC levels efficiently and safely, outperforming other technologies.

Relative Contaminant Performance



Award Winning Technology

CLEAN TECH OPEN

IMAGINE | H₂O



LILYPAD

Sunlight Activated Nanotechnology Water Treatment



Treats More Contaminants! Sustainable, Environmentally Safe, Passive and Effective!

- Pesticides
- Herbicides
- Heavy Metals
- Petrochemicals
- Pharmaceuticals
- Micro-organisms

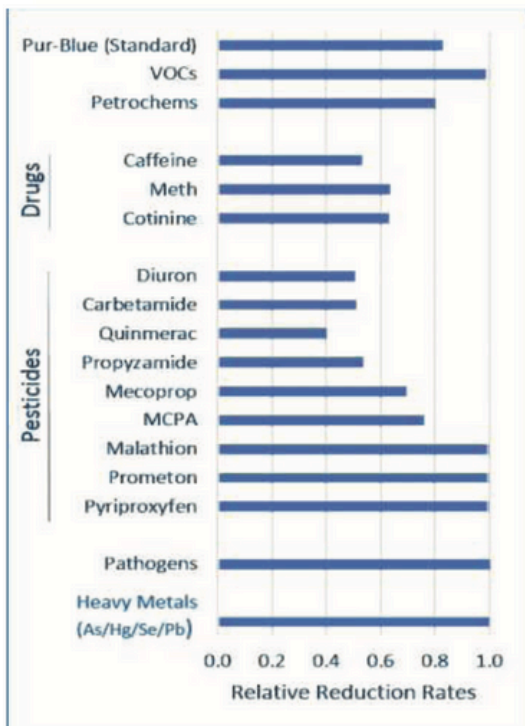
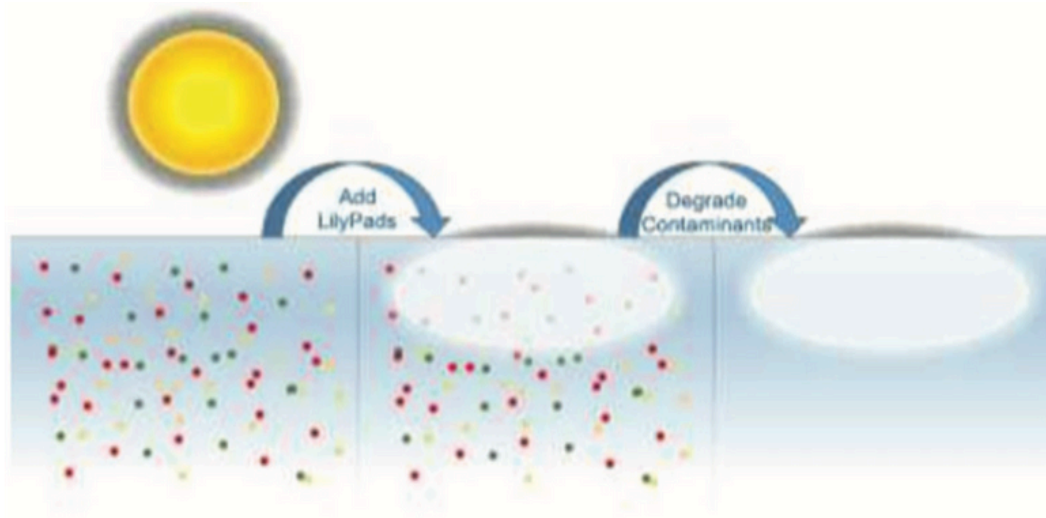
Potential Applications

- Retention Ponds
- Catchment Areas
- Storm Water Management
- Industrial Water Treatment
- Agricultural, Mining Water Treatment
- Rainwater Purification
- Water Storage Tank Applications
- Algae Suppression, Water Feature
- Aesthetics



LilyPads would be ideal for contaminant mitigation of natural water catchments near industrial sources of waste and runoff contamination.

The reusable LilyPad is a simple water treatment system for use with unclean water. Without using chemicals, consumables, or power, the LilyPad is able to remove micro-organisms, organic contaminants, and heavy metals from water. The LilyPad provides passive, solar, non-environmentally damaging water treatment for polluted streams and ponds.

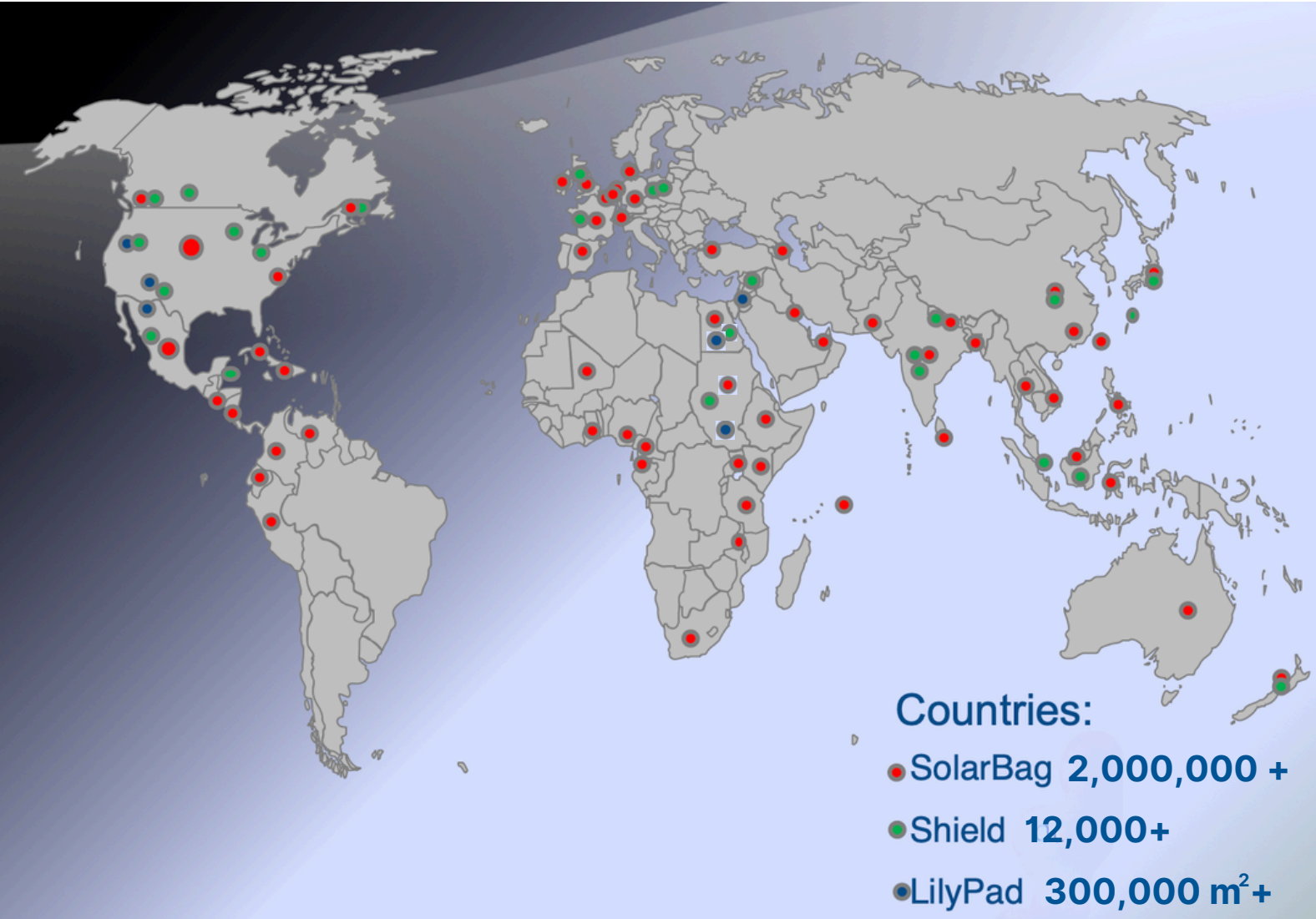


Sunlight, even on a cloudy day, activates our new, powerful purification capability. Our nano- technology coated mesh destroys organic contaminants found in virtually all water sources. Trace amounts of heavy metals are removed and bacteria, viruses and protozoa are sterilized.

Capacity: 1m² treats 1m³/day* **Size/ weight: 1 meter dia./800 g** **Custom sizes available**
Made in USA

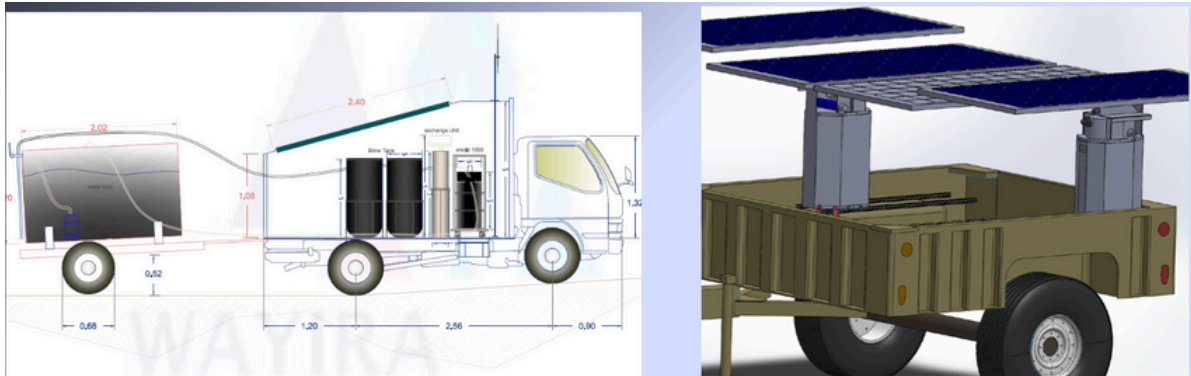
*Based upon 1 LRV reduction of Pur-Blue, other contaminants per chart above, and tropical sunlight.

Product Deployments



Product Execution

Mobile Water Treatment

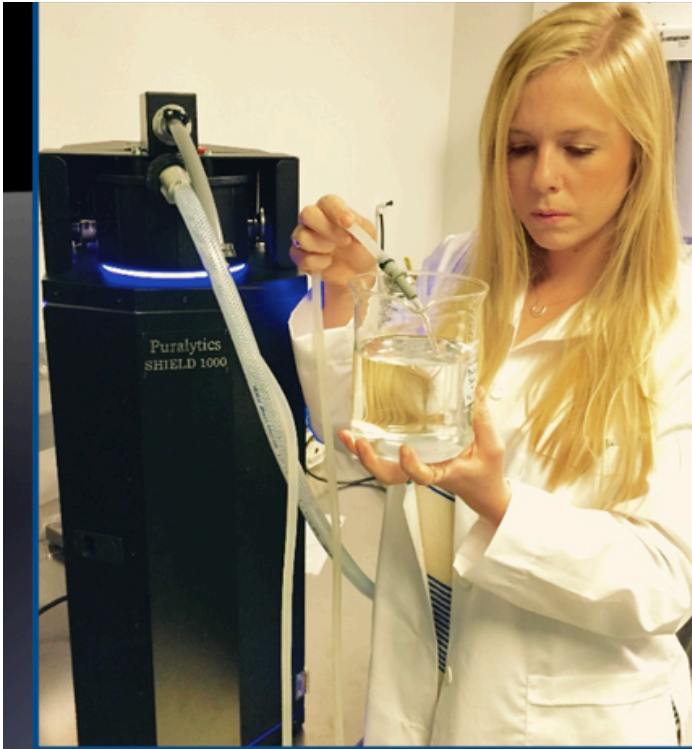


Disaster Water Shield



15-30 minute setup onsite.
Draws water from open pond/stream, includes power generation pumps and storage. Provides drinking water for up to 1000 people/day

Shield – Industrial



Water Polishing Laboratories and pure water applications where trace contaminants are a concern.

Water Kiosks in Mexico



Letter of Authorization



October 2, 2023

Mohammed Babiker
Wayira Group
RAK FREE TRADE ZONE AUTHORITY, Business Center 4
P.O. BOX RAK -UAE 16111

Dear Dr. Mohammed Babiker,

I hope this letter finds you well. I am writing to formally declare that Puralytics® has successfully sold the exclusive rights of manufacturing for both the Shield product line with IP Number: U.S. Patent No. 8,506,886 and Lillypad product line with IP Number: U.S. Patent No. 4,952,267 to Wayira Group.

This exclusive transfer of manufacturing rights includes all associated intellectual property, design, equipment, materials, tests, certifications, machines, drawing technical know-how, proprietary information, and awards etc. related to the Shield and Lillypad product lines. Wayira Group is now the sole entity authorized to manufacture, distribute, and market these products.

We have full confidence in Wayira Group's capabilities and commitment to uphold the standards and quality associated with both our Shield and Lillypad product lines. The transfer of these exclusive Nanotechnology manufacturing rights is a significant milestone in our business relationship, and we are looking forward to a successful partnership working together towards a bright future.

Thank you for your attention to this matter, and we anticipate mutual beneficial collaboration between Puralytics and Wayira Group.

Sincerely,

Mark Owen
CEO
Puralytics®

Lillypad Patent

United States of America United States Patent and Trademark Office

LILYPAD

Reg. No. 4,952,267

Registered May 3, 2016

Int. Cl.: 11

TRADEMARK

PRINCIPAL REGISTER

UVCLEANING SYSTEMS, INC. (OREGON CORPORATION)
15236 NW GREENBRIER PARKWAY
BEAVERTON, OR 97006

FOR: FLOATING WATER TREATMENT UNITS, NAMELY, PHOTOCHEMICAL TREATMENT UNITS, IN CLASS 11 (U.S. CLS. 13, 21, 23, 31 AND 34).

FIRST USE 6-9-2014; IN COMMERCE 6-9-2014.

THE MARK CONSISTS OF STANDARD CHARACTERS WITHOUT CLAIM TO ANY PARTICULAR FONT, STYLE, SIZE, OR COLOR.

SN 86-447,440, FILED 11-6-2014.

JANICE L. MCMORROW, EXAMINING ATTORNEY



Michelle K. Lee
Director of the United States
Patent and Trademark Office

Shield 1000 Patent



US008506886B2

(12) **United States Patent**
Owen et al.

(10) **Patent No.:** US 8,506,886 B2
(45) **Date of Patent:** Aug. 13, 2013

(54) **ULTRAVIOLET PHOTOREACTOR FOR THE PURIFICATION OF FLUIDS**

(75) Inventors: **Mark Owen**, Beaverton, OR (US);
James Thorne, Portland, OR (US);
Manoj K. Sammi, Beaverton, OR (US)

(73) Assignee: **UVCleaning Systems, Inc.**, Beaverton, OR (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 753 days.

(21) Appl. No.: **12/665,003**

(22) PCT Filed: **Jun. 20, 2008**

(86) PCT No.: **PCT/US2008/007654**
§ 371 (c)(1),
(2), (4) Date: **Dec. 16, 2009**

(87) PCT Pub. No.: **WO2008/156813**
PCT Pub. Date: **Dec. 24, 2008**

(65) **Prior Publication Data**
US 2010/0209294 A1 Aug. 19, 2010

Related U.S. Application Data
(60) Provisional application No. 60/936,642, filed on Jun. 20, 2007.

(51) **Int. Cl.**
A61L 2/10 (2006.01)
(52) **U.S. Cl.**
USPC **422/24**; 422/186.3; 204/157.15;
204/158.2; 250/432 R; 210/748.01

(58) **Field of Classification Search**
USPC 422/24, 105, 186.3, 119; 250/455.11,
250/492.3, 432 R; 210/748.01, 748.09, 748.1,
210/748.14; 204/158.2, 157.15
See application file for complete search history.

(56) **References Cited**

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4,892,712 A 1/1990 Robertson et al.
(Continued)

FOREIGN PATENT DOCUMENTS

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JP 09/174046 A 7/1997
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OTHER PUBLICATIONS

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(Continued)

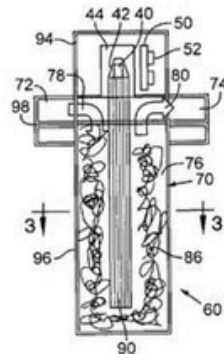
Primary Examiner — Sean E Conley

(74) Attorney, Agent, or Firm — Klarquist Sparkman, LLP

(57) **ABSTRACT**

In order to disinfect and to detoxify a fluid, a photoreactor contains at least two light sources. One light source activates the catalytic function of a semiconductor material in the fluid to reduce the concentration of contaminants in the fluid, such as by breaking down organic contaminants into non-toxic compounds. A second light source acts directly on living biological entities to sterilize or kill them and thereby disinfect the fluid, and can also serve to activate a semiconductor photocatalyst that in turn causes further damage to biological contaminants. The semiconductor photocatalyst is desirably attached to an optically transmitting fiber substrate in the fluid. The second light source in one embodiment is external to the fluid and illuminates the photocatalyst through transmitting surfaces in a fluid containment vessel. The light sources can comprise respective sets of plural LEDs.

29 Claims, 5 Drawing Sheets





SAFN
Pure Life



LET'S WORK TOGETHER



+1 (774) 282-4117
+249 90000121
+20 1025353339

info@gcusconsulting.com

Columbia Tower 42nd Floor,
Seattle, WA 98104