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Topics

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PDF Version of the webpage (first pages)

Comparing Thrust in Aviation: Traditional Turbines vs. Viktor Schauberger's Repulsine

The evolution of aviation has seen numerous innovations, from the Wright brothers' first flight to the advent of jet engines that revolutionized air travel. Among these innovations, Viktor Schauberger's Repulsine stands out for its unique approach to generating lift and thrust. This article compares traditional thrust aviation turbines with Schauberger's Repulsine, exploring their principles, efficiency, and potential applications.

[Click on the link below to read more ...](#)

BTU Generated Using Two Sides Balanced Magnetic Force

Using Eddy current to boost the efficiency of a ORC turbine from 5-30 percent.

Symmetry and Field Enhancement: The symmetric placement of magnets could enhance the magnetic field's uniformity across the steel disc, potentially increasing the Eddy current generation. This might lead to a higher heat generation rate, but the exact increase would depend on the specifics of the magnetic field interactions, which are complex and not necessarily linear.

Efficiency of Heat Generation: The efficiency of converting kinetic energy from spinning into heat through Eddy currents might not scale linearly with the number of magnets. While more magnets increase the magnetic field, the relationship between the field strength, speed of rotation, and heat generation is complex.

**Introducing the IT Mini Experimenters Kit featuring Tesla Turbine and Tesla Pump Discs to
Unleash your inner experimenter and explore the fascinating world of energy with this
compact and engaging kit**

** April Special \$500 ** Shipping included in USPS One Rate Box to Any USA Location

Infinity has always emphasized the value of starting with small prototypes and gradually scaling up to address any potential issues. In line with this philosophy, we proudly present the Modular Block Experimenters Kit, a stepping stone for entrepreneurs to validate their developments and seamlessly progress from concept to commercialized products.

This comprehensive kit equips you with a range of Tesla pump and turbine discs, carefully crafted from steel through precision stamping. These discs can be conveniently stacked on a common shaft, allowing for a multitude of experimental possibilities.

Making Graphene Oxide Using Inexpensive Manufacturing Methods of Sugar and Sand in Kiln

Here's a graph displaying the 7-day compressive strength of different cement mixes. Each bar represents a unique cement type, including the Graphene Oxide Coated Sand Concrete (FWG CWM A), showing its compressive strength in Megapascals (MPa). As you can see, the Graphene Oxide Coated Sand Concrete exhibits a significantly higher compressive strength compared to the other cement types.

Revolutionizing Agriculture: The Salgenx Food Production Scale Battery System

The vegetable production module process is designed to optimize the cultivation of various vegetables using advanced vertical fogponics systems within the controlled environment of hi-cube shipping containers. This innovative approach leverages the precision and efficiency of fogponics, a method that uses nutrient-rich fog to hydrate and feed plants, ensuring optimal growth conditions without the use of soil. The integration of solar photovoltaic (PV) power for lighting and fog generation makes the process sustainable and energy-efficient.

Each module, encapsulated in a hi-cube shipping container, is meticulously configured to maximize space utilization and light distribution, ensuring that crops such as tomatoes, leafy greens, peppers, and microgreens thrive. The system's design facilitates year-round production, irrespective of external climate conditions, by maintaining ideal temperature, humidity, and light levels.

The process begins with the selection of crops based on their profitability, energy requirements, and compatibility with the fogponics system. Containers are then outfitted with LED lighting, fogponic irrigation systems, and solar PV panels to create a self-sustaining environment. Crop production is closely monitored and managed, focusing on optimizing yield and ensuring high-quality produce.

Finally, the Salgenx saltwater battery provides PV energy storage to power the LED lighting and pumps, while simultaneously desalinating seawater during charging.

The vegetable production module process represents a fusion of agricultural innovation and environmental stewardship, offering a scalable solution for urban farming and the production of fresh, locally sourced vegetables.

Meet the visionary genius of Viktor Schauberger

Discover the remarkable Viktor Schauberger, a devoted student of nature and a true connoisseur of water flows. Endowed with the gift of patient observation and a deep reverence for the outdoors, Schauberger's pioneering work revolutionized the field of flow control and the science of water.

His profound fascination with mountain streams and their integral role in the natural environment sparked numerous innovations and inventions. Recognizing the fundamental similarities between water and air, albeit with different densities, Schauberger devised ingenious lift turbines and crafts.

Well ahead of his time, Schauberger was among the first scientists to recognize the multi-dimensional nature and intricate structure of water. His understanding of water's surface tension and boundary layer mechanisms, which predates 1900, was truly revolutionary. Notably, Nikola Tesla also shared this realization with his disc turbine during a similar period.

During the early stages of his career, Schauberger focused on finding efficient ways to transport and sort sawn timber using water and displacement. At a time before the advent of helicopter lifts, trucks, roads, and aerial cable lift lines, the transportation of timber from mountainous regions posed significant challenges.

Viktor Schauberger's invaluable contributions continue to inspire and influence advancements in the understanding and utilization of water, leaving an enduring legacy in the realms of hydrodynamics and ecological engineering.

Energy storage and simultaneous desalination with Salgenx technology

A breakthrough in desalination technology has been announced today with the unveiling of a new system that uses a saltwater flow battery (BESS) cycle to produce clean drinking water from seawater. This innovative solution has been developed to create a sustainable and cost-effective way of storing energy while simultaneously producing fresh water.

The desalination system operates by using a saltwater flow battery cycle without the need for a membrane. The system can use a renewable energy source, such as solar power or large wind turbine, to charge the battery, making it both environmentally friendly and cost-effective.

Discover the Revolutionary Range of Infinity Turbine Products: Shaping the Future of Energy Solutions

With our plans, you can construct your own turbine, and if you desire unlimited manufacturing capabilities, you can purchase a license.

Infinity Turbine is dedicated to developing and constructing cutting-edge systems that generate power from various waste heat sources such as industrial, biomass, geothermal, solar, cloud server AI farms, and redox batteries. Additionally, we are actively involved in pioneering strategies for energy storage, production, and deployment using flow batteries.

Our ORC Turbine comprehensive package includes a production license.

The Micro Robots are Coming

Developing microrobots with multiple applications including air movement, liquid flow, heat (sink) flow, heat pipe, conveyor, lifting, sound attenuation, and more.

Microbots can be arranged to act as a group (ant farm) or as individuals. Using RFID, these miniature robots can perform inventory tasks on a micro scale.

Liquid-microrobot monomer (LRM) can pass through narrow channels via elongation and achieve scaling via splitting and coalescence. LRMs can also reassemble into various kinds of functional liquid-robot aggregates, such as microsticks, micropies, microtrains, microkayaks, and microrollingpins. Multi-terrain surfaces and perform various complex tasks. Dynamic self-assembly and group behavior of a multiple LRM system. These ferrofluid droplet robots provide novel solutions for some potential applications, such as untethered micromanipulation and targeted cargo delivery.

Tesla Optimus Robot Technology Guide

Coming soon...

The Tesla Optimus robot is a game changer for factories due to its exceptional capabilities and the numerous benefits it brings to the manufacturing industry.

- GM had the first robot in 1961 in the automotive industry and was created in the 1950s by George Devol called the Unimate
- GM and NASA had a Humanoid Robot Patent in 2013 (US8511964)
- Leonardo di Vinci designed a mechanical knight and lion in 1495
- The term Robot was coined in Prague in 1920 by Josef Čapek in the Czech-language play R.U.R. (Rossumovi Univerzální Roboti)

Are you ready for the robot revolution ?

7/30/2024

CavGenX

The Cavgenx is a heat pump turbine with the main objective to provide hydraulic pressure. That pressure can be used to drive things, like wheels, gears, machines, and even lift devices, like drones.

What makes the Cavgenx turbine unique is that its compressor is a combination of a cavitation device and magnetic induction driven on a common shaft from the turbine. A true turboshaft engine. But in this case it is closed-loop, and uses Earth friendly working fluid like closed-loop CO2.

In true a Organic Rankine Cycle, this closed-loop process takes a liquid through phase changes to generate heating, cooling, and hydraulic pressure. Liquid is spun into vapor, pressurized by heating, then evaporated and condensed back to liquid to repeat the process. Cooling is the byproduct of the cycle.

Why Salt Water may be the Future of Batteries

There's no shortage of solutions to the world's need for renewable energy storage, but there is a shortage of accessible and cheap resources to use for those solutions. Lithium and vanadium aren't limitless, so what about regular, run-of-the-mill salt? Redox flow batteries, or RFBs, can exploit the abundance of elements like sodium and iron. One U.S. company already has salt water batteries ready to go, with at least two others developing iron flow variations built to effectively run on rust. They promise to last longer and be far cheaper than the competition. So, what happens if we go with the flow?

Unlock the potential of wood waste through the process of gasification yielding high-quality carbon suitable for battery cathodes

Gasification is a thermochemical procedure that transforms organic materials, including wood waste, into a valuable gas mixture called syngas. This process involves heating the wood waste in the presence of a controlled amount of oxygen or air, leading to the generation of volatile compounds, bio-oil, and solid residue. These byproducts can undergo additional refining to produce hard carbon or graphite, which find application in battery cathodes.

Development of a Closed Loop Micro Satellite Plasma Ion Propulsion System Based on a Cavgenx Heat Pump Turbine

The following descriptions follow through development of a space propulsion system based on the Cavgenx Heat Pump Turbine concept.

Electrical power is needed to start the process and as a topping off heat additive when needed.

The turbine would power the cavitation compressor as well as supply shaft horsepower to spin induction magnetic heating.

The high COP of the liquid cavitation compressor (already shown by NASA - see link below) is used in concert with a induction heating system to power the cycle. Note that cavitating a liquid by use of a spinning disc was invented more than 100 years ago.

The spacecraft skin would be used as a condenser heat sink for the closed-loop CO₂ Organic Rankine Cycle system.

Saltwater Flow Battery and Materials Manufacturing Module

Salgenx: The [saltwater flow battery](https://salgenx.com). Grid-Scale Battery Capable of Also Functioning as a Materials Manufacturing Facility:

- Grid-scale power storage
- Thermal energy storage
- Desalinate seawater
- Harvest and refine lithium from brine
- Exfoliate graphite into graphene by intercalating Na
- Selectable revenue processes according to highest revenue on-demand (AI tunable logic)
- Massive manufacturing [tax credits](https://salgenx.com).

TRL Technology Readiness Level for Salgenx Saltwater Battery Technology

As of March 2023, Salgenx is at TRL (graph developed by NASA to indicate readiness level of technology) somewhere above 3.

The goal of technology licensing is to work with licensee to formulate TRL 5 and TRL 6 according to system model configuration (power and volts desired for customer application).

The licensee is responsible for TRL 7 through TRL 9, where it then becomes a MRL (manufacturing readiness level).

Summary of Tesla Megapack Lathrop Production Facility as of November 2023

In a November 16, 2023 interview on the Randy Kirk YouTube channel, Bradford Ferguson provided an update on Tesla's Megapack manufacturing. He visited Lathrop, California, and observed the production rate of Megapacks. In March 2023, he counted about 10 Megapacks produced per day. On a recent visit, he noted an increase to 27 per day, but estimated the actual rate to be around 18-19, occasionally dropping to 10 per day. The production capacity is believed to be 27 units per day, equating to 4 GW hours.

Ferguson identified the primary production limitations as the availability of batteries and power electronics, specifically silicon carbide. Power electronics are crucial for converting DC to AC power and include devices like gallium nitride FETs and power diodes. The cost of batteries in each Megapack is around \$300,000, with the total price of a 3 MWh Megapack being approximately \$1.9 million.

The interview concluded that with the resolution of battery and power electronics supply chain issues, Tesla could adopt a rapid expansion model for Megapack factories worldwide, potentially producing between 10,000 to 20,000 units annually. At full capacity (27 units per day), the output could reach 9,855 Megapacks (30 GWh) annually, yielding \$18.725 billion in revenue and \$9.362 billion in net profit.

New: Infinity Tesla Disc Pump and Turbine with Radial Impeller Option

Infinity is now offering its experimental Tesla disc pump and turbine package. It also includes a radial pump/turbine impeller. This is experimental.

The 6 inch (152.4 mm) diameter disc pack can be swapped out for any type Tesla disc for optimizing pump according to liquid viscosity.

Pump discs are mounted on a keyed common shaft to a magnetic coupler which allows a outside pump motor (with magnetic coupler) or external generator.

Prototype pump discs or impellers can be 3D printed for this type of Modular Block assembly housing. Typical blocks are machined from aluminum (for pumping or expander operations) or HDPE for just pumping.

The pump housing is good for pressures lower than 300 PSI and less than 100 C. If higher pressures are desired, then a high strength material magnetic coupler block needs to be designed and manufactured (something like carbon fiber).

Please email for pricing.

Unleash the power of Salgenx Saltwater flow battery to create graphene

In the ongoing development of the Salgenx flow battery, electrochemistry plays a pivotal role in the process of producing graphene from exfoliated graphite. Notably, there are significant similarities in utilizing sodium (Na) for the purpose of graphene exfoliation from graphite.

Na is harvested during the [Salgenx](https://salgenx.com) Flow Battery charging process.

