

Sunpower Patent Piston Stirling Engine

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Sunpower Patent Piston Stirling Engine

Sunpower continues to implement Free-Piston Technology in our commercial line of CryoTel® cryocoolers and our non-commercial Stirling engines. Sunpower's engineering services include prototype design, development and fabrication of free-piston Stirling engines.

Sunpower Free-Piston Stirling Technology

The Stirling engine was first developed and patented by Rev. Robert Stirling in 1816. The engine was further improved by many yet failed to gain significant market adaptation due to technical

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limitations.

Stirling Engines - Sunpower Free-Piston Stirling Technology

Sunpower, in partnership with Aerojet Rocketdyne and Precision Combustion Inc. (PCI), proposes a high-frequency, high efficiency 1 kW free-piston Stirling engine (FPSE). A Stirling engine uses a working gas such as helium, which is housed in a sealed environment.

Sunpower | arpa-e.energy.gov

Sunpower's CryoTel cryocoolers are the result of over 30 years of technical leadership, innovation and evolution in free-piston Stirling technology. Our cryocoolers are cost effective, low in vibration, and extremely efficient. Since they require no maintenance, our customers can expect many years of high-performance, trouble-free cooling.

CryoTel Cryocoolers - Sunpower Free-Piston Stirling Technology

Free piston stirling engine that limits

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overstroke Apr 24, 2017 - Sunpower, Inc.
A free-piston Stirling engine that limits piston amplitude and reduces engine power as the piston amplitude increases beyond its maximum power.

US Patent for Free piston stirling engine that limits ...

Stirling Engine Library Access. ABOUT SUNPOWER. Company Profile. Milestones. History. Careers. Quality Assurance Policy. ... Cryocooler Sales. General Contact. Directions from Columbus Airport. Sunpower Free-Piston Stirling Technology > OUR TECHNOLOGIES > Stirling Engines > Technical Milestones > Stirling Engines. Stirling Engines. Technical ...

Technical Milestones - Sunpower Free-Piston Stirling ...

Mr. Beale applied for and was granted a patent for this invention. He continued to improve upon the design and consider the potential applications while remaining as a professor at the

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University. In 1974, he created Sunpower and gave this company his full-time professional attention for the next 42 years.

History - SUNPOWER INC

This invention relates generally to free piston Stirling engines and more particularly relates to an improved method and apparatus for centering the power piston of the engine in a manner which...

US4583364A - Piston centering method and ... - Google Patents

A Stirling engine assembly comprising a Stirling engine (1) with a hot head (3) and a cold region (4). An annular burner (9) surrounds the head and is arranged to provide heat to the head. A corrugated seal (2) between the Stirling engine and the burner prevents the flow of combustion gases from the head into the surrounding environment.

US7021054B2 - Stirling engine

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assembly - Google Patents

Since 1974 Sunpower, Inc has developed Free Piston Stirling Engine/Generators ranging in power levels from 35W e to 7.5kW e. This exercise concerns the ideal performance of the EG-1000 Stirling engine which is gas fired and was designed to generate electricity (1kW e) as well as to provide hot water for a private home.

Problem 3.2 - Sunpower EG-1000 Stirling Engine/Generator ...

The present invention relates to external combustion engines and more precisely to motors using the Stirling cycle designed to directly convert thermal energy into electrical energy. In accordance with the invention, this transformation is carried out inside a machine which is completely sealed, without a mechanical connection with the outside, in which the power piston drives the moveable ...

US4511805A - Google Patents

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Abstract: The invention relates to thermomechanical transducers drivingly linked to a linear motor or alternator, preferably a free piston Stirling engine in which the piston is drivingly linked to the field magnet of an alternator. There are symmetric and coaxial secondary magnets attached at opposite ends of the field magnet.

William T. Beale Inventions, Patents and Patent ...

Since 1974 Sunpower has developed Free Piston Stirling Engine/Generators ranging in power levels from 35W e to 7.5kW e. Consider for example the EG-1000 engine/generator which is gas fired and has been designed to generate electricity (1kW e) as well as to provide hot water for a private home.

Beta Type Stirling Engines - updated 12/30/2011

There's a Good Book about Free Piston Stirling Engines. A well-written book was published about the Sunpower Free-

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Piston Stirling engine story called, "The Next Great Thing." Unfortunately, they never published a book about how to design free-piston Stirling engines. ... The original patents have long since expired, so hopefully, someone ...

Eight Important Stirling Engine Animations

The ASC consists of a Free-Piston Stirling engine integrated with a linear alternator to produce electricity. It is sized for the thermal output of a single General Purpose Heat Source (GPHS) module. To date, Sunpower has produced five generations of ASC-related hardware evolving the technology progressively with each build.

Advanced Stirling Convertor | Thermal Energy Conversion

The apparatus of the invention relates to a free piston Stirling engine that contains a power piston and a displacer piston which each reciprocate in a

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coaxial cylinder. At least one piston is hydrodynamically lubricated to avoid friction based wear by spinning the piston about its axis through the utilization of at least one magnetic article mounted onto one of the interfacing wall surfaces.

US Patent for Magnetic driven hydrodynamic lubrication ...

A free piston Stirling machine including a thermal buffer tube extending from the machine's expansion space and surrounded by its heat rejector and its regenerator, a displacer cylinder extending from the thermal buffer tube to the compression space and surrounded by the heat rejecting heat exchanger, and a displacer that reciprocates within an excursion limit that extends into the regenerator ...

US Patent Application for Free-Piston Stirling Machine For ...

Abstract: A two piston, free piston, alpha Stirling cycle machine has a

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compression piston with a cylindrical bore that is coaxial with the cylinders in which the pistons reciprocate. An expansion piston sealingly extends into both an expansion cylinder and into the cylindrical bore in the compression piston. The expansion piston has the same diameter within both the expansion cylinder and the ...

William T. Beale Inventions, Patents and Patent ...

United States Patent: 6,062,023 by Dean Kamen. Analysis of a recent Stirling engine patent of Dean Kamen and others. [Comments in red brackets by Brent H. Van Arsdell -bhv]. American Stirling Home Page.

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