

The present invention provides an ultra micro gas turbine engine which includes a wave rotor. In various embodiments, the ultra micro gas turbine engine of the present invention includes a rotating disk which has a compressor, a wave rotor and a turbine, a first stationary member which includes an inlet and a first wave rotor port end plate, a second stationary member which ...

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In order to establish the design methodology of an ultra micro centrifugal compressor, which is the most important component of an ultra micro gas turbine unit, a 10 times size of the final target ...

However, with recent developments and improvements in micro electrical mechanical systems (hereinafter "MEMS") technology and nanotechnology, attempts have been made to ...

An ultra-micro scale gas turbine (UMGT) is a miniaturised microscale gas turbine that generates electricity, and it is comprised of 5 main components: a radial turbine, a radial compressor, bearings, a combustor, and an electrical generator [1]. UMGTs are designed for a power range of 0-1000 W [2], and are of interest for a various range of ...

an ultra micro gas turbine engine of the present invention includes a rotating disk which has a compressor, a wave rotor and a turbine, a first stationary member which includes an inlet and a first wave rotor port end plate, a second stationary member which includes an outlet and a second wave rotor port end plate and a combustion chamber which includes a fuel inlet and an igniter.

Ultra micro gas turbines can indeed deal with power in between few tens of watts up to kW with high specific energy. More precisely the work that was done deals with a 50 W micro gas turbine. The first studies were mostly dedicated to the energetic behaviour of such engine to have a better understanding of the key points to address from an ...

Micro- and Ultra-Micro Gas Turbine (UMGT) devices, based on a micro compressor and a micro turbine installed on the same shaft, are more suitable for this scope for several reasons. They present a higher power density, both in terms of kW/kg and kW/m<sup>3</sup>, lower emissions, less moving elements, multi-fuel capability (they operate almost equally well with kerosene, natural ...

This paper studies the performance of an ultra-micro scale gas "turbine" through an experimental

investigation, through a series of transient and steady state tests. The ...

The ultra-micro gas turbine (UMGT) consists of a centrifugal compressor, a radial turbine, an annular combustor, and recuperators, and a high speed generator. It is designed to run 400,000rpm ...

Manuscript Received on Ma Ultra-micro gas turbine ( expected to be a next gen applications, such as aerospace 1997) However, because of it must be thoroughly investigated work. The problems will be r short shaft connects high-tem impeller, (2) Two-dimensional 2,400 k rpm, (4) Silicone as revealed that the impeller a shallow dishes caused by centrifugal forces.

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Micro-generator for ultra micro gas turbine. This micro gas turbine designed by Onera targets an electrical power generation of 55 W at a rotational speed of 840,000 rpm. ...

In applications requiring extremely lightweight, high power devices, UMTEs offer a dynamic solution. Whether for deployable power, micro unmanned vehicle systems, directed energy or other use cases, eco Jet's UMTEs provide flexible on-demand power in the 500W - 5kW range. Utilising advanced materials and innovative engine architectures, eco Jet offers a ...

The major novelty of this study is the demonstration of the performance of a 20 mm (rotor diameter) ultra-micro scale gas "turbine" with a 3D blade profile, manufactured via ...

This paper presents the development of 500W ultra-micro gas turbine (UMGT) generator. The purpose of the paper is to check the feasibility and develop the prototype of the ultra-micro gas turbine with 500W electrical output. The ultra-micro gas turbine (UMGT) consists of a centrifugal compressor, a radial turbine, an annular combustor, and recuperators, and a high speed ...

Kuwait micro turbine market is witnessing growth with the adoption of distributed energy generation and CHP (combined heat and power) systems for decentralized power production. ...

The ultra-micro gas turbine (UMGT) consists of a centrifugal compressor, a radial turbine, an annular combustor, and recuperators, and a high speed generator. It is designed to run 400,000rpm, compression ratio 3.0, and TIT 1200K. The requirement of UMGT is that the volume of UMGT should be less than 1L in the present research.

The company is famous for its JetQuad UAVs - ultra-fast VTOL drones using thrust-vectoring jet turbine propulsion to act like quadcopters on steroids. They're amazing little power units, running on diesel, kerosene,



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or jet fuel, with 5 percent turbo oil mixed in. The ARC microturbine generator measures about 17 x 27 x 52 cm (6.7 x 10.6 x 20. ...

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The generator operates at the same speed as the turbine (up to 96,000 rpm) because the permanent magnet is located directly on its drive shaft. The high-frequency alternating current (1,600 Hz) generated in this way is rectified in the turbine's power electronics and subsequently reversed to alternating current again (50 Hz / 400 V).

We experimentally investigate the feasibility of a 500-W class ultra-micro gas turbine power generator. System specifications include a design rotational speed of 400,000 rpm, a compressor ratio ...

The steamship "Turbinia" proved the viability of steam turbine power by showing up uninvited to the 1897 Royal Naval Review and racing between the assembled warships in full view of the Lords of the Admiralty and the Prince of Wales. She ...

The particular nomenclature is UMG TG-UDR1 (Ultra-Micro Gas Turbine Generator). The final configuration of the prototype (for which a patent is pending) is described in the paper as well, together ...

Micro- and Ultra-Micro Gas Turbine (UMGT) devices, based on a micro compressor and a micro turbine installed on the same shaft, are more suitable for this scope for several reasons.

ultra micro gas turbine concept which seems very promising [1], [2]. Ultra micro gas turbines can indeed deal with power in between few tens of watts up to kW with high specific energy. More precisely the work that was done deals with a 50 W micro gas turbine. The first studies were mostly dedicated to the energetic ...

~1kW Turbine. A 2008 Paper Titled "Development of a hydrogen fuelled 1 kW ultra micro gas turbine with special respect to designing, testing and mapping of the 181;-scale combustor" ARPA-E - "1kW Microturbine System by Rory Keogh - Metis Design, Jim Kesseli - Brayton Energy, Peter Therkelsen -LBNL, Prof. Daejong Kim - UTA" Ultra-Micro Gas Turbines

Cloud Gateway Ultra Compact Cloud Gateway with 30+ UniFi devices / 300+ client support, 1 Gbps IPS routing, and multi-WAN load balancing. Device Support: Supports 30+ UniFi devices and up to 300+ clients; Routing: 1 Gbps IPS routing capability; Load Balancing: Multi-WAN load balancing; This compact cloud gateway is designed to efficiently manage ...

The Technology Electronic military equipment weight as well as MAV flight time is highly dependent on

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achievable electric energy density. Therefore, the development of a 300W kerosene-driven Ultra Micro Gas Turbine (UMGT) prototype is proposed, which is foreseen to triple energy density compared to current Li-Ion batteries. UMGT developments of previous ...

One of the types of gas turbines is a micro gas turbine (MGT) with power below 1 MWe [10], and a MGT with power in the range of 1-10 kWe could be called an ultra-micro gas turbine (UMGT) [11]. Air ...

Capstone Turbine Corp. has secured a 3.4 MW order for a gas processing facility in Kuwait. The order includes a C600 Signature Series microturbine, a C800 Signature Series microturbine ...

Esistono ultra micro turbine a gas meno esasperate per quanto riguarda la velocit&#224; di rotazione ed aventi una struttura simile a quelle di taglia pi&#249; conosa, come diverse macchine di taglia variabile fra i 40 e i 100 W progettate in Giappone. Trattandosi di materiali quasi-convenzionali e del classico schema impiantistico, i parametri ...

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