



## The AquaFuel<sup>®</sup> generator

### How to generate gas from water for use as Fuel

created on 12-06-98 - *JLN Labs* - last update on 04-03-2003

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**On 12-06-98, I have built and reproduced successfully a very simple AquaFuel<sup>™</sup> generator:  
The AquaFuel<sup>™</sup> is fully based on the Hilliary Eldridge patent [US 603,058 "Electrical Retort"](#) granted on April 26, 1898.**

This is a non fossil combustible gas which is produced by an electric discharge of carbon arcs within distilled, fresh, salt or other types of water, thus being essentially composed of Hydrogen, Oxygen, Carbon and their compounds.

**Today, there are a lot of names for this synthetic gas such as AquaFuel<sup>™</sup>, Aqualene<sup>™</sup>, Magnegas<sup>™</sup>, TrueFuel<sup>™</sup>, Carbo-hydrogen<sup>™</sup>....**

## **AquaFuel: An example of the emerging new energies and the new methods for their scientific study**

**Author:** Ruggero Maria Santilli

**Comments:** 22 pages, Texture

**Report-no:** TTL-98-004

**Subj-class:** General Physics

**Journal-ref:** Hadronic Journal Supplement, Vol. 13, pp. 1-22, 1998

In this paper we initiate studies of the emerging new forms of energy by using as a representative example the new combustible gas called AquaFuel, discovered and patented by William H. Richardson, jr., whose rights are now owned by Toups Technology Licensing, Inc. (TTL), of Largo, Florida. In essence, AquaFuel is a new energy converter capable of transforming Carbon and water into a new combustible gas via an electric discharge. We show that AquaFuel can be produced easily, safely and rapidly in large amounts, and exhibits greatly reduced emission pollutants as compared to fossil fuels of current use. Despite its simplicity, the chemical and physical characteristics of AquaFuel are largely unknown at this writing. We then review nine basic experimental measurements which are necessary for a scientific appraisal of AquaFuel. We outline the limitations of quantum mechanics and chemistry for the treatment of  $\{\it new\}$  forms of energy, namely, energies which by definition should be  $\{\it beyond\}$  said theories. We finally point out the availability of broader theories specifically constructed for the study of new energies and point out available applications.

Link to this paper : <http://arxiv.org/abs/physics/9805031>

This generator produces a mixture of carbon monoxide and hydrogen ( $\text{COH}_2$ ) and this is a gas which burns very cleanly in oxygen or air, and it can be used as fuel for an internal combustion engine. When burned,  $\text{COH}_2$  produces carbon dioxide and water vapor, so it generates very little, if any, pollution to the environment.

**Below, an analysis of this gas conducted by the NASA :**

Hydrogen	46.483 %
Carbon Dioxide	9.329
Ethylene	0.049
Ethane	0.005
Acetylene	0.616
Oxygen	1.164
Nitrogen	3.818
Methane	0.181
Carbon Monoxide	38.370
<b>Total</b>	<b>100.015</b>



**This simple experiment is only for testing purposes and only for a proof of the concept. This small generator can't be used for a long working period and it must be used only for demonstration.**

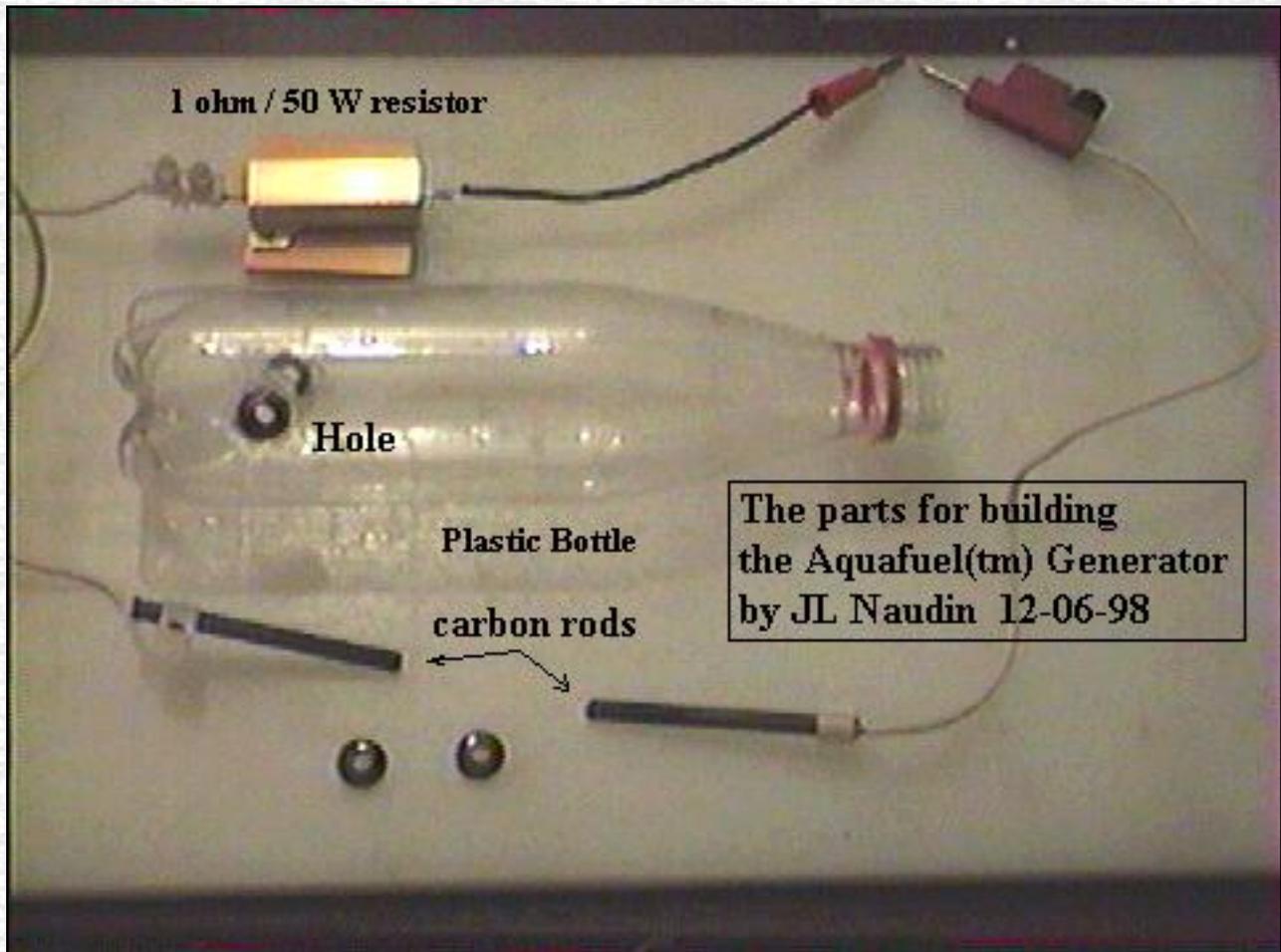
You need to get very few materials and it is very simple to build and test it....

***Be Carefull, this device generates an explosive gas, you must conduct this test in a well ventiled room or better in open air, you must not smoke during the test.. Don't forget that the carbon monoxide ( CO ) is a very toxic gas, so never breath this gas before burning it. This experiment is not intended for the inexperienced.*** User of this document should be very carefull to try anything out ! If you do it the risk of any results is just yours. I take no responsibility of anything that might happen, let it be of a wrong

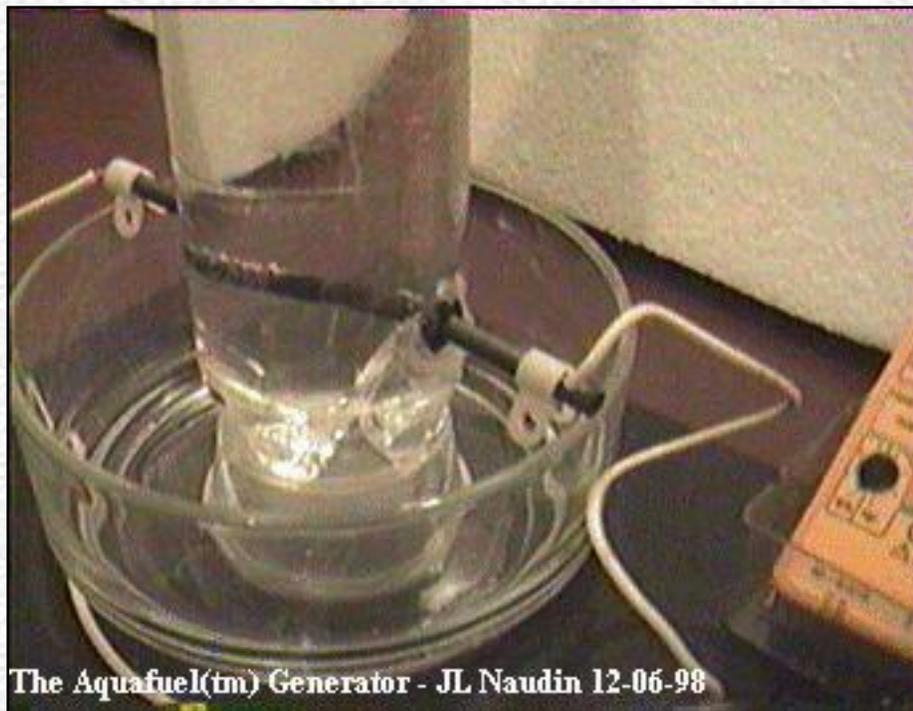
*information or anything else.*

You need only to get :

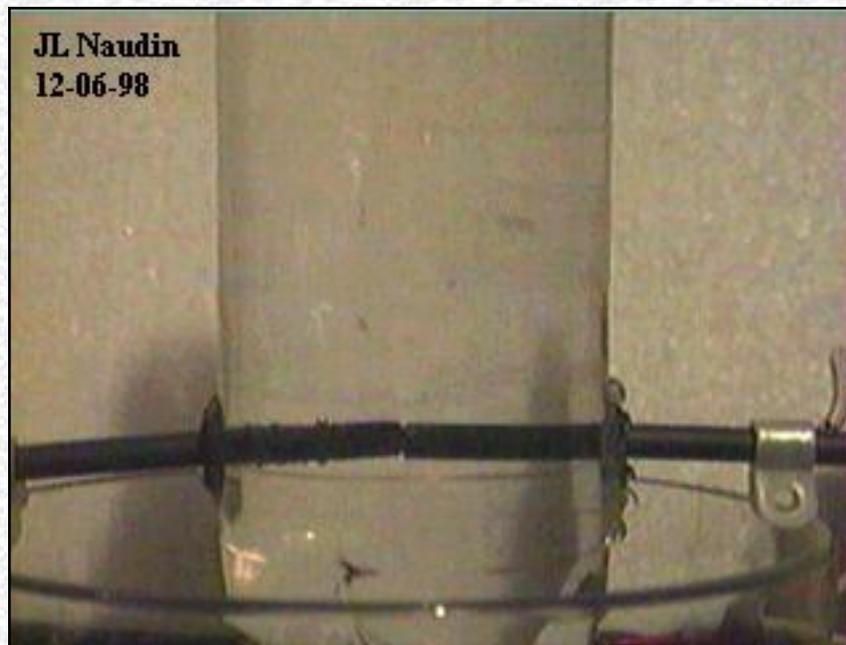
- A little plastic soda bottle,
- two carbon rods ( 70mm length, 6mm diam )
- one 1 ohm 50Watts resistor
- a DC Power supply which is able to deliver 35v / 10A
- some wires, plugs and silicon cement.



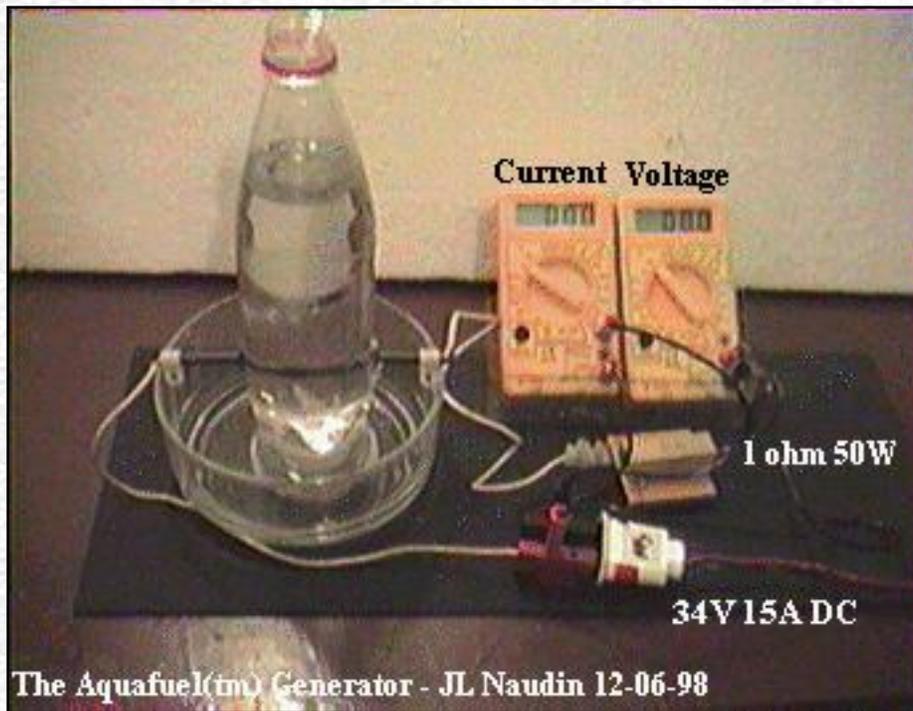
Very few material is needed.....



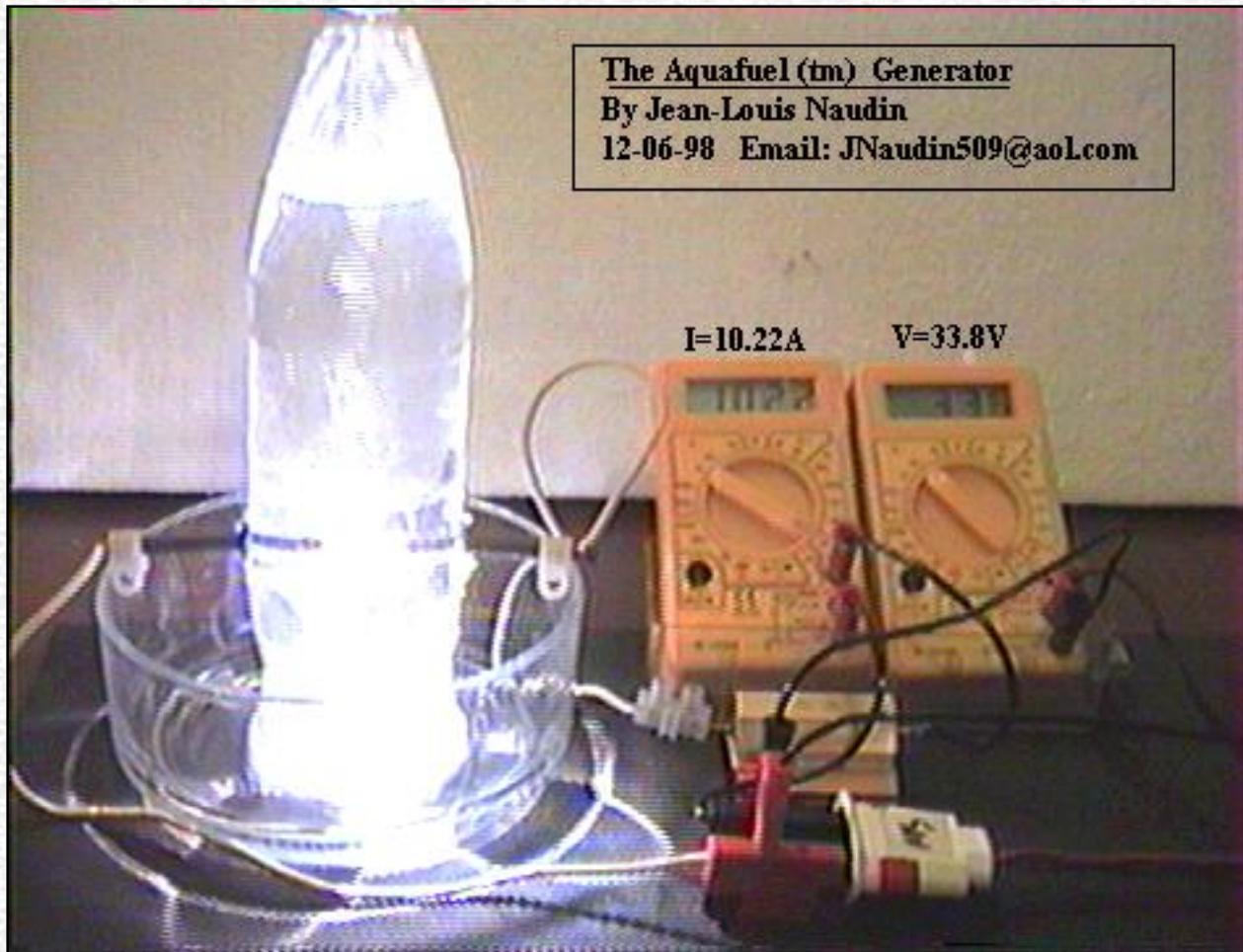
**1) Drill two opposite holes (10mm diam) at 60mm from the bottom of the bottle and insert the carbon rods with a rubber washer and glue the washer with silicon cement. I suggest you to make one of the carbon rod into round shape. The two carbon rods must be just slightly in contact before you switch on (see below).**



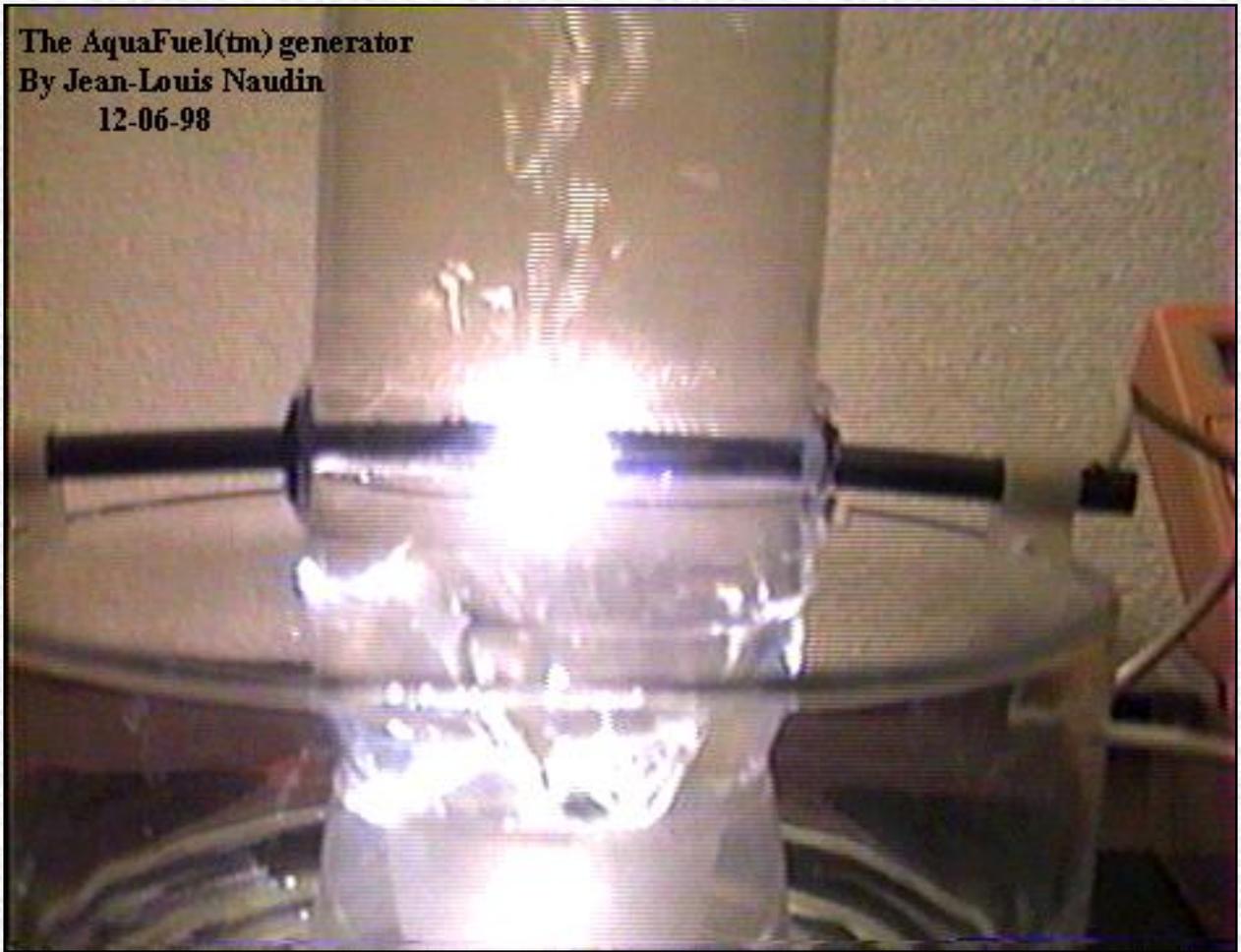
**2) Connect the 1 ohm 50W resistor in serie with one of carbon rod and one pole of your DC power supply ( set for 34V/15A DC), the other pole of your power supply is connected to the other carbone rod. You may add some additional multimeters for measuring the Current and the Voltage input. Fill up your generator with only distilled or fresh water.**



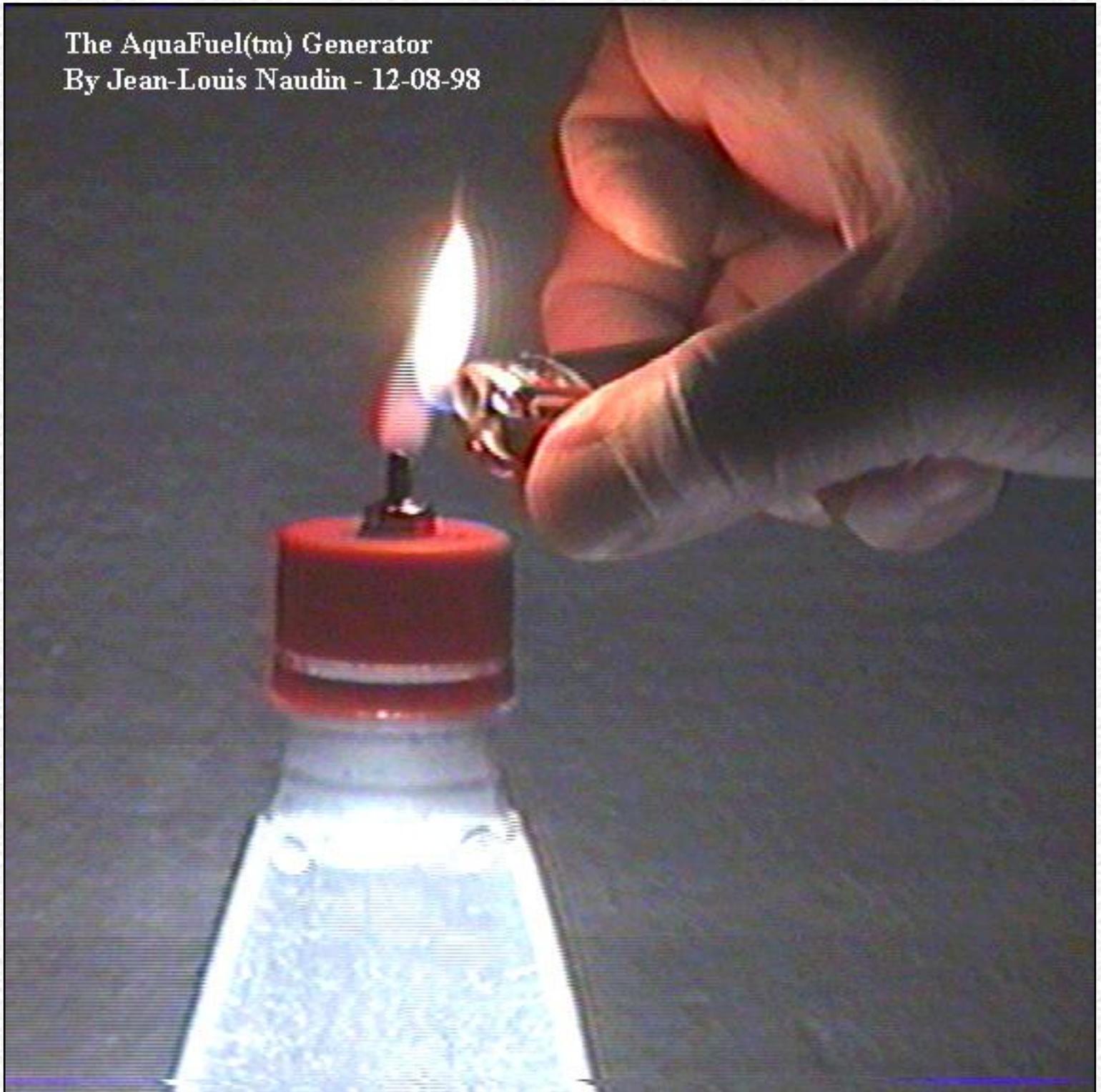
3) Now, your are ready to produce AquaFuel™.....



**The AquaFuel(tm) generator**  
**By Jean-Louis Naudin**  
**12-06-98**



**The AquaFuel(tm) Generator**  
**By Jean-Louis Naudin - 12-08-98**



[Click here to see some animated videos of the AquaFuel\(tm\) generator in action](#)

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**You will see below some videos which show my AquaFuel(tm) in action and some personal comments.....**



click here to see the [AquaFuel\(tm\) demo 1 \(277kb\)](#)



click here to see the [AquaFuel\(tm\) demo 2 \(90kb\)](#)

( if you don't have the RealPlayer 5.0, you may download it freely at : <http://www.real.com/products/player/> )

*Some reference documents and web link :*

## **United States Patent 6,183,604 - Santilli - February - 6, 2001**

### **Durable and efficient equipment for the production of a combustible and non-pollutant gas from underwater arcs and method therefor**

#### **Abstract**

A system for producing a clean burning combustible gas comprising an electrically conductive first electrode and an electrically conductive second electrode. A motor coupled to the first electrode is adapted to move the first electrode with respect to the second electrode to continuously move the arc away from the plasma created by the arc. A water tight container for the electrodes is provided with a quantity of water within the tank sufficient to submerge the electrodes.

**Inventors: Santilli; Ruggero Maria (Palm Harbor, FL)**

**Assignee: Hadronic Press, Inc. (Palm Harbor, FL)**

#### **Field of the Invention**

The present invention relates to durable and efficient equipment for the production of a combustible and non-pollutant gas from underwater arcs and method therefor and more particularly pertains to producing a combustible gas from the underwater arcing of electrodes moving with respect to each other.

[Click here to see the full patent](#)

Link to the [MagneGas™ technology web site](#)

## **United States Patent 6,217,713 - Lee , et al. - April 17, 2001**

### **Process for producing aquafuel by using carbon fiber bundle electrodes**

#### **Abstract**

The invention concerns a process for producing aquafuel by replacing conventional inflexible carbon bars with thin, flexible and tough carbon fiber bundles as consumptive electrodes which thereby can be sustainedly fed and can produce aquafuel continuously. Such carbon fiber bundle electrodes can be prepared by pultrusion, and electrodes may be further carbonized or graphitized in order to increase the conductivity and gas productivity thereof.

**Inventors: Lee; Chi-Young (Hsin-Chu Hsien, TW); Chen; Swe-Kai (Hsin-Chu, TW); Tai; Nyan-Hwa (Hsin-Chu, TW)**

**Assignee: National Science Council of Republic of China (Taipei, TW)**

## **Field of The Invention**

The invention relates to a process for producing aquafuel by using carbon fiber bundle electrodes, and in particular, to a process for producing aquafuel by auto-feeding flexible carbon fiber bundle electrode in an electrolytic reaction, wherein said flexible carbon fiber bundle electrodes are formed by impregnating flexible, tough carbon fibers with a resin and said electrode can be used sustainedly in the electrolytic reaction of water under low voltage for a long period of time.

[Click here to see the full patent](#)

- [US 603,058 - Electrical Retort by Hilliary Eldridge April 26, 1898](#) ( *the TRUE original Aquafuel patent* )
- [US 5,159,900 - Method and means of generating gas from water for use as a fuel](#) ( *Aquafuel Patent* )
- [US 5,417,817 - Biomass gasification process and apparatus](#)
- [US 5,435,274 - Electrical Power Generation Without Harmful Emissions](#) ( *Aquafuel Patent* )
- [US 5,692,459 - Pollution Free Vehicle Operation](#)
- [US 5,792,325 - Electric Arc Material Processing System](#) ( *Aquafuel Patent* )
- [US 5,826,548 - Power Generation Without Harmful Emissions](#) ( *Aquafuel Patent* )
- [US 6,299,738 - Fuel Gas production by underwater arcing](#) ( *Aquafuel Patent* )
- [EP1227142 - Method and system for producing hydrogen from solid carbon materials and water](#)
- [Infinite Energy Vol.2, No9, 1996](#)
- [Infinite Energy Vol.2, No10, 1996](#)
- [Infinite Energy Vol.2, No11, 1997](#)
- [Infinite Energy Vol.4, No19, 1998](#)
- [Aqualux Corporation web site](#) ( *disabled* )
- [MagneGas™ technology web site](#) from Hadronic Press Inc
- [A new fuel produced from water and carbon](#) by Alexander's Gaz and Oil production
- [Le gaz à l'eau](#) ( *gaz de houille* )
- [The scientific research undelying Santilli's Plasm-Arc-Flow reactors, Magnegaz\(Tm\), and Magneliquids\(Tm\)](#) from IBR
- [AquaFuel](#) by the Morgan Energy Group
- [AquaFuel Vs Diesel](#), analysis the Morgan Energy Group
- [AquaFuel Vs Gasoline](#), analysis the Morgan Energy Group
- [The TrueFuel™ : Technical informations](#) by Advanced Energy Research Corporation
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- *The MagneGas™ is a trademark from Hadronic Press Inc*

- *The TrueFuel™ is a trademark from Advanced Energy Research Corporation*
  - *The Carbo-Hydrogen™ is a trademark from DW Energy Research*
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