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## A REVOLUTIONARY

## ROTARY ENGINE

### Availability

**This Intellectual Property is being presented so that many companies can study the secrets and discover the opportunity to Manufacture and Market when Licensed from the Inventor for the public to enjoy the benefits as a quiet, inexpensive, efficient, non-polluting, variable power supply with the inventor receiving a nominal reward of 5% of the sales.**

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CONFIDENTIAL

PRESSURIZED GASES  
OR COMBUSTION

MANIFOLD  
DIRECTIONAL VANES

ROTOR

MULTI-IMPINGEMENT  
VENTURI FLANGES

BEARINGS &  
HOUSINGS

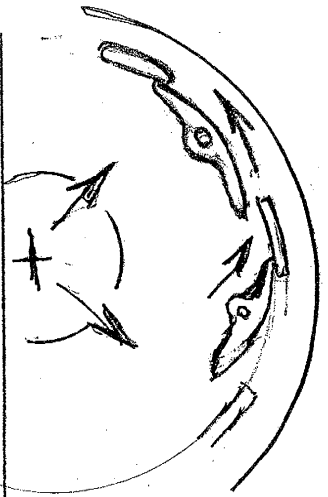
POWER SHAFT

OUT

FLOW

WELDING  
TORCH

ROCKER VANES FOR  
REVERSE FLOW



ECCOMOTOR SCHEMA

PROPERTY OF RALPH A. DAVIS

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JAN. 2, 2005 67203

DRAWN BY: *Ralph A. Davis*

On this 7th Day of January 2005

State of Kansas  
County of Sedgewick

Ralph Davis Personally appeared *Cynthia D. Rekoske*

A	CYNTHIA D. REKOSKE
	NOTARY PUBLIC STATE OF KANSAS

NOTE - CONTROLS NOT SHOWN.

## **Descriptions of The Efficient ROTARY ENGINE Device and Functions of the ECOENGINE** by Ralph A. Davis, Inventor: Copyrighted 2005 & all rights reserved.

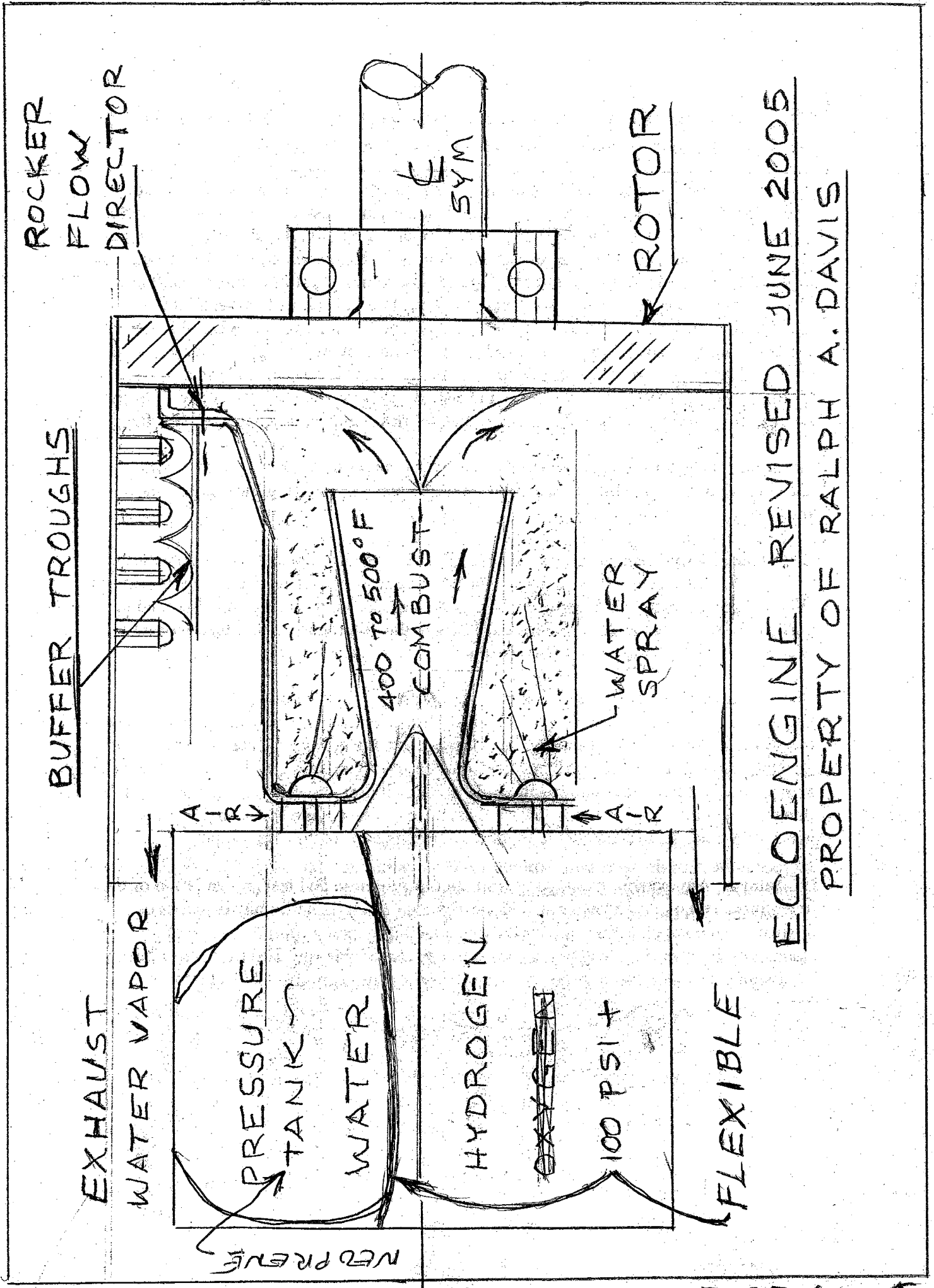
Now that you have taken a look inside this Rotary Engine, which I called an Ecomotor and Ecoengine, we realize that considerable Engineering must be done to build a perfect power unit. But for a demo most any tin can mounted on a shaft and bearings like the picture on my home page produces exciting action the like of which was not known to the world until now. The can was sliced in sections perpendicular to the axis or shaft and flanges crimped with pliers forming small venturi like indentures that obstruct the circular flow of gases and capture some force to turn the entire rotor. When this is repeated enough times over multiple flanges all of the flowing energy is delivered to the rotor and shaft. In each stage of this process the gas flow is resisted and the molecules overflow to the next stage. Now so that they don't get away we have the circular buffer troughs cooperating with the flanges to direct the flow centrifugally into the next flange.

An alternate rotor construction for production is possible using circular corrugated metal (stainless steel) with spaced indentations which form Ventura passages which restrict the flow of gases and cause intermittent multiple pressure and expansion acting on the rotor for power delivery. This must be matched with the inner grooved or corrugated buffer to redirect gases to the next stage of circular power collector. Guide vanes close to the inner surfaces of the rotor direct the body of gases flowing into the circular path. They may be adjustable mechanically for varying the volume and pressure.

So to make all this happen pressurized gas is needed. Many types of fuel are available. This part is not new or novel. Any combustion engineer or auto mechanic can rig this up. When burning hydrogen for fuel in air with water spray expert sensing and computer control is required but it is the road to cleaning our environment. The hydrogen tank can encompass a neoprene bladder for insulating the water from the weather, also equalizing the pressure. Studies have shown that hydrogen is safer than gasoline because it is so light that it floats away quickly after release.

Water spray will use up some excess heat and boost the pressure and power. At 350 Degrees F the mist droplets will explode 1700 times in size. The second drawing shows a configuration to capture the steam and direct it into the gas flow. There will be some heat loss through the surfaces of the rotor. When the temperature of the rotor surfaces drop below 212 F, condensation may occur and small drain holes are needed through the flanges so centrifugal force can throw the water out. Once again some engineering is needed for controls to regulate the input flow, RPMs and shaft power output

Disclaimer: Any person or company who attempts to build and test any variation of this invention does so at their own risk and the inventor is not liable for any damages or mishaps. When anybody or entity produces or sells any part within the scope of the claims of this invention, they are expected to pay reasonable royalties to the inventor or his assigns. My website under construction > [www.ecoengines.us](http://www.ecoengines.us) <& >ecomotors<.



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