The Invention

In engines fuels like petrol or diesel are burnt.
The heat from the burning fuel is converted in a engine to the turning of the wheels of a car or bike.
A mechanism is required for this conversion of heat from burning fuel into turning of wheels of a car.
In engines today the mechanism used for the conversion is called “crank mechanism.”

Mr. Kamath has invented a new mechanism.
This technology is called the R.V.C.R. technology.

There are various advantages of this new mechanism invented by Mr.Kamath compared to the existing “Crank Mechanism”

The “Crank Mechanism” is very cumbersome, where as the new invented mechanism is simpler.

The engines today can runs on one type of fuel, but an engine made using the new invented mechanism the engine can run on different fuels. For example a petrol car TODAY will not run if diesel is put in the tank. But R.V.C.R engine will run on any fuel.
In this new invented engine you can use either LPG or LNG or CNG or Petrol or Diesel or bio fuel, Heavy Fuel etc. you can change over from one fuel to other while the engine is running.

Other advantages are
The new invented mechanism makes engine smaller, lighter and compact.
It would be cheaper and more flexible.

How it works.

In the “Crank Mechanism” reciprocating piston and a crankshaft is used

In the new invented mechanism two vanes are used. These vanes are rotated inside a hollow doughnut shaped chamber in a predefined sequence.

In normal engine a piston inside a liner compresses the air. The extent to which the air is compressed is fixed and cannot be changed.

With R.V.C.R Technology the extent to which air can be compressed can be varied. The air can be compressed to a lesser extent, which is required for Petrol. But diesel cannot burn in this air compressed to lesser extent. For diesel the air has to be compressed to a very high degree.
With R.V.C.R Technology the air can be compressed at the extent you choose. It can be for diesel or petrol hence the multi fuel engine.

Other aspects

The new mechanism can be used for making cheaper pumps, compressors or metering devices also.

The comparison between the conventional engine and engine based on R.V.C.R Technology is listed in next attachment.