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Liquid Cooled Stirling Engine with a Segmented Rotary Displacer

This invention is a liquid cooled Stirling engine consisting of three moving parts per power cylinder, two reciprocating and one rotary. Suitable sources of heat traditional combustion, chemical, geothermal, biomass and concentrated solar radiation. Heat transfer into the engine workspace is through conduction or convection. Engine specifications can be effectively scaled and the modular design is easily configurable to provide for multi-cylinders. Vibration and noise are virtually nonexistent.

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