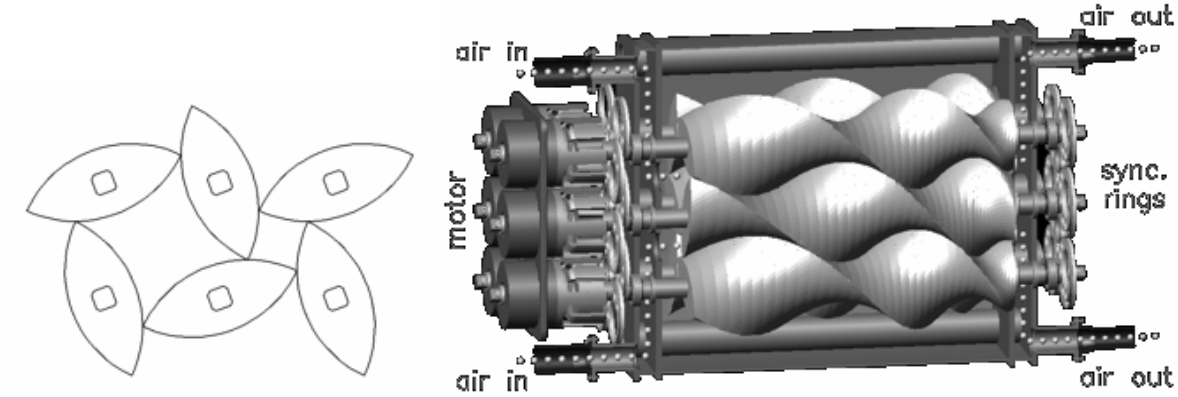
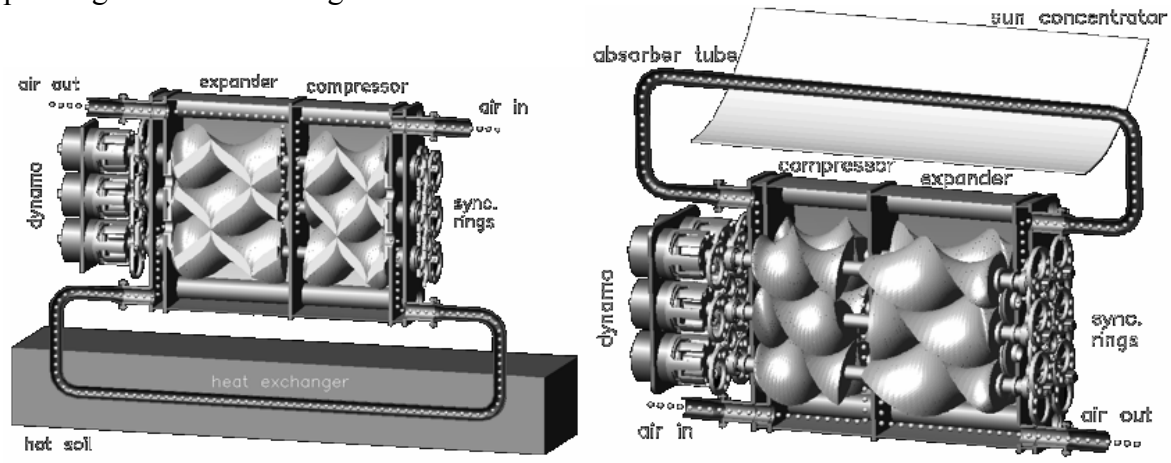
License Offer: The Rotary Piston Array Machine

The rotary piston array (RPA) is the possibly most compact and most elegant machine to transform the volumetric change of gas into shaft work and vice versa. It can be used as pneumatic motor, steam engine, gas compressor, vacuum pump and the like, but also as part of new heat or combustion engines which – like the Stirling engine – open new ways to harvest renewable energy. Other possible uses are refrigeration and air-conditioning.



The picture shows a simple RPA air compressor. It has six equally shaped twisted rotors with parallel axes. The rotors constitute the walls of sealed cavities or working chambers, which move axially from one end of the array to the other in response to synchronized rotor rotation. The rotors do not touch one another to avoid friction.

The possibly most useful application is a Brayton cycle heat engine with two RPA's, which uses atmospheric air as a working fluid. It converts heat form all kinds of sources into shaft work. The examples below are a geothermal power generator on the left, and a solarthermal power generator on the right.



The machine can also be driven by continuous combustion – which is clean and silent - and then be used for ship and aircraft propulsion, or the generation of power in a hybrid car. More information and **animations** are on my website: www.treefinder.de/ideas.html.

I have written software to generate very detailed CAD-models of all kinds of RPA machines, and I have several Patents pending on important details. The material shown here and on my website is **not** confidential.

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