THE GEOMETRY OF THE SCROLL THERMAL MACHINE

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ABSTRACT
A scroll thermal machine is a positive displacement compressor (or expander) that uses the compression (expansion) action provided by two intermeshing scrolls – one fixing and the other orbiting. The principle of the scroll compressor was developed during the early 1900’s and was patented for the first time in 1905 by Léon Creux. Even if the theory for the scroll compressor indicated a machine potentially capable of reasonably good efficiencies, at that time the technology simply didn’t exist to accurately manufacture the scrolls.

REFERENCES