

Title (en)

HEAT TRANSFER COMPONENTS FOR STIRLING-CYCLE, RECIPROCATING, THERMAL MACHINES

Publication

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Application

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Abstract (en)

[origin: WO8204101A1] Advantageous specific applications of copper matrix composites, manganese-copper alloys, and structural ceramics to the design and construction of improved Stirling-cycle, reciprocating, thermal machines are disclosed which provide both high temperature strength and high or low thermal conductivity in components with matched thermal expansion coefficients. In the preferred embodiment (figure 3) the heater assembly (23) is made from material with a high thermal conductivity such as GLIDCOP while the expansion block (28) is made of a material of low thermal conductivity, such as a manganese copper eutectic alloy.

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