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THERMAL SCIENCE International Scientific Journal

odrag Novaković

NEW COMPACT HEAT ENGINE

STRACT

Differential Cylinder Heat Engine (DCHE) reported consists wo different size cylinders with pistons where four passages annels) enable fluid communications between cylinders. The ons are connected in opposition to share the work. As the

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nnels are open and closed by movement of pistons the working fluid passing through the quate channel is heated, cooled or let adiabaticaly flown from one cylinder to the other. The angement enables different thermodynamic cycles to be performed. Here the Brayton cycle is sen by adequate choice of volume ratio and by positioning the channel apertures. During paric parts of the cycle the gas is adequately heated or cooled when passing through responding channel. During these process temperatures remain constant (and different) in each nder. The performance of the engine is analyzed and the parameters and efficiency determined. **WORDS**

t engine

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