

Title (en)
HOT GAS ENGINE

Title (de)
HEISSGASKRAFTMASCHINE

Title (fr)
MOTEUR A GAZ CHAUD

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Application
EP 04761954 A 20041007

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Abstract (en)
[origin: WO2005035962A2] Disclosed is a hot gas engine comprising a cylinder (2), a working piston (4) that delimits a cylinder chamber which accommodates a working medium along with the cylinder cover (3), a displacement mechanism (5) that subdivides the cylinder chamber into a first working chamber (14) which is delimited by the working piston (4) and a second working chamber (15) which is delimited by the cylinder cover (3), a device (7) for heating the working medium, and a device (8) for cooling the heated working medium. The working chambers (14 and 15) are interconnected in a communicating manner via a regenerator (27). The heating device (7) encompasses a heating element (31) that can be mounted in a stationary fashion on the cylinder (2) and is provided with a heating area (33) which extends substantially across the entire cross section of the cylinder chamber (6) and a heating system (32) which is allocated to the heating element (31). Said embodiment allows the externally delivered heat to be efficiently transferred to the heating medium so as to be continuously effective across the entire cross section of the cylinder while allowing for a simple, compact design of the hot gas engine.

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