Title (en)
MANAGEMENT OF GASEOUS FLOWS FOR ROTARY ENGINES

Title (de)
GASSTROM-MANAGEMENT BEI DREHKOLBENMOTOREN

Title (fr)
GESTION DES FLUX GAZEUX POUR DES MOTEURS ROTATIFS

Publication
EP 2021583 A1 20090211 (FR)

Application
EP 06764610 A 20060512

Priority
FR 2006001067 W 20060512

Abstract (en)
[origin: WO2007132070A1] A heat machine which can be used especially as a heat engine comprises a cylinder block (1) in which a cylindrical borehole (2) is machined, in which two rotors are mounted in an interpenetrating manner, said rotors forming, with the borehole, at least one working chamber into which a gaseous mixture enters according to a thermodynamic cycle, said gaseous mixture being introduced into the chamber through a drilled supply passage (11) associated with a supply system comprising a rotary valve (14) for alternately closing and opening the drilled passage (11) in accordance with the phases of the thermodynamic cycle. An element (20) is provided for regulating the section for the movement of gases into the drilled supply passage, said element (20) being positionable as required according to whether the drilled supply passage (11) is completely closed, completely open, or partially blocked. The engine comprises a primary exhaust system for evacuating burned gas. It can also comprise a cooling air supply system, and a secondary exhaust system for said air. Said various supply, exhaust and air introduction systems form a system for managing gaseous flows enabling the simultaneous implementation of the functions for cooling by ventilation, air compression for potential supercharging, and separation of gases in order to carry out a post-treatment.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
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