

Title (en)
ROTARY ENGINE

Title (de)
ROTATIONSMOTOR

Title (fr)
MOTEUR ROTATIF

Publication
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Application
EP 05742445 A 20050511

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Abstract (en)
[origin: WO2005108745A1] The present invention relates to a rotary device, comprising a first rotor rotatable about a first axis and having at its periphery at least one recess bounded by a curved surface; a stator about which the first rotor is arranged for rotation; a second rotor counter-rotatable to said first rotor about a second axis, parallel to said first axis, and having at least one radial lobe bounded by a curved surface; the first and second rotors being coupled for inter-meshing rotation to produce a transient chamber of progressively increasing or decreasing volume defined between said curved recess and lobe surfaces of said first and second rotors; a housing in which the rotors are enclosed, said housing having end surfaces abutting end surfaces of said inter-meshing rotors; and a rotor port arranged to enable a flow of a gas into or out of said at least one recess in the recess rotor, the port having dimensions at least one of which is greater than the distance between the outermost extent of the stator and the minimum radius of the recess in the recess rotor.

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