

Title (en)
ROTARY ENGINE

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Application
EP 85905507 A 19851002

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EP 8500513 W 19851002

Abstract (en)
[origin: WO8702096A1] Rotary engine (1) for converting the expansion force of operating gases into a mechanical rotary movement, with an internal motor part (101) having a cylinder-like external circumference (102) and an external motor part (123) which surrounds the internal motor part (101) and has an internal cylinder-like circumference (124). The two circumferences (102, 124) are arranged opposite one another. On one of the cylinder-like surfaces (102) is located at least one working cam (104, 105, 106), which transfers the expansion pressure of the working gases to the engine part (101) and at least one expansion chamber (107, 108, 109). On the other cylinder-like circumference (124) is mounted a counter-pressure part (126, 127, 128, 129) which projects into the expansion chamber (107, 108, 109) and transfers the expansion force of the working gas to the other engine part (123). The two circumferences (102, 104) have the shape of complementary annular surfaces. An axial cross-section along the longitudinal axis of the annular surfaces (102, 104) reveals that one of the annular surfaces (102) has the shape of a concave parabolic curve and the other annular surface (124) has the shape of a convex parabolic curve. The two annular surfaces (102, 124) are closely fitted in relation to one another so as to slide over each other, and extend parallel to one another as far as their external edges.

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