

Title (en)
Internal-combustion engine.

Title (de)
Verbrennungsmotor.

Title (fr)
Machine à combustion interne.

Publication
EP 0080070 A1 19830601 (DE)

Application
EP 82109949 A 19821028

Priority
DE 3145783 A 19811119

Abstract (en)
[origin: US4590761A] A rotary engine comprises a circular rotor surrounded by an annular stator. The rotor is provided around its outer circumference with spaced combustion chambers and with recesses therebetween. Each recess serves as an expansion chamber for a jet of gas produced by combustion in an associated combustion chamber. Each recess is also provided, remote from the associated combustion chamber, with a cam. The stator at its inner circumference has retractible reaction members which are movable into the recesses to be acted on by the gas jet so as to create forces acting in opposite sense on the rotor and stator and thus cause the rotor to rotate. The reaction members have deflector surfaces arranged to deflect the gas jet in such a manner that the members are drawn into the recesses, the members being engaged by the cams during the rotor rotation and moved back into the stator.

Abstract (de)
Ein Verbrennungsmotor mit einem im Querschnitt kreisförmigen Rotor (2) und einen den Rotor (2) umgebenden kreisringförmigen Stator (3) (Innenläufer) wird so ausgebildet, daß in der Umfangsfläche (21) des Rotors (2) kreisabschnittförmige Ausnehmungen (22) als Expansionsräume vorhanden sind, an deren einem Ende eine Brennkammer (23) angeordnet ist und deren anderes Ende in eine Rampe (24) ausläuft. An der Innenseite (31) des Stators (3) sind Klappen (32) schwenkbar gelagert, die in die Ausnehmungen (22) des Rotors (2) zur Aufnahme der Kräfte der expandierenden Verbrennungsgase hineinklappbar und durch die Rampe (24) in den Stator (3) rückklappbar sind.

IPC 1-7
F01C 1/356; F01C 11/00

IPC 8 full level
F02B 53/00 (2006.01); **F01C 1/356** (2006.01); **F01C 11/00** (2006.01); **F02C 3/16** (2006.01); **F02K 99/00** (2009.01)

CPC (source: EP US)
F01C 1/3566 (2013.01 - EP US); **F01C 11/008** (2013.01 - EP US)

Citation (search report)

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