

Title (en)
Rotor internal combustion engine

Title (de)
Rotationskolbenmotoren

Title (fr)
Moteur rotatif de combustion interne

Publication
EP 1256694 A1 20021113 (EN)

Application
EP 01127350 A 20011121

Priority
EP 01127350 A 20011121

Abstract (en)
A rotor internal combustion engine comprising a body (1) within which rotates an elliptic rotor (2) having two edges in sealing contact with the body. A pair of seal shutters (3,4) are located at opposite sides of the body and are kept in sealing contact with the rotor by springs (5) creating combustion (36) and compression (37) chambers in the body (1). A compressed air accumulation chamber (16) connects compression and combustion chambers via an air by-pass valve (9) and a compressed air valve (10) located on either side of one shutter. Air intake (11) and exhaust (12) ports are located on either side of another shutter. Spring loaded sliding vanes (6,7,23) seal space between the shutters (3,4), the rotor (2) and the body (1) and spring loaded sliding ring vanes (8) seal side space between the rotor (2) and the body (1). Cooling centrifugal blades (26) of the rotor cool the rotor (2) and the body (1). Lubrication channels (25) in the rotor (2) lubricate the sealing vanes (6,7,8) using centrifugal forces.
<IMAGE> <IMAGE>

IPC 1-7
F01C 1/356; **F01C 21/06**; **F01C 21/12**

IPC 8 full level
F01C 1/356 (2006.01); **F01C 21/06** (2006.01); **F01C 21/18** (2006.01)

CPC (source: EP)
F01C 1/3566 (2013.01); **F01C 21/06** (2013.01); **F01C 21/183** (2013.01)

Citation (applicant)
GB 2348672 A 20001011 - MONFOR ALEXANDER ORESTOVICH [GB], et al

Citation (search report)
• [DA] GB 2348672 A 20001011 - MONFOR ALEXANDER ORESTOVICH [GB], et al
• [A] US 5681157 A 19971028 - WEN-MING LIU [TW]
• [A] US 832848 A 19061009 - CROSTON THOMAS [US]
• [A] US 1300666 A 19190415 - SPENCER JOHN N [CA]
• [A] GB 992060 A 19650512 - HENRY SAMUEL GILBERT

Cited by
CN106968787A; ITBS20120182A1

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