

ABSTRACT:

In a rotary fluid machine having an eccentric rotary piston mechanism (20) which is configured such that: an annular piston (22) is accommodated in an annular cylinder chamber (C1, C2) of a cylinder (21) to form an outer cylinder chamber (C1) and an inner cylinder chamber (C2); the cylinder (21) and the annular piston (22) relatively execute eccentric rotary motion; and each of the outer and inner cylinder chambers (C1, C2) is divided by a blade (23) into a first chamber (C1-Hp, C2-Hp) and a second chamber (C1-Lp, C2-Lp), the blade (23) and the annular piston (22) are mutually movably coupled together by a swinging bush (27) and the blade (23) is provided, in its contact parts with the annular piston (22) and the swinging bush (27), with sliding surfaces (P1, P2) in order to prevent the occurrence of seizure and wear of the blade (23) and the annular piston (22) and the occurrence of gas leakage between the first chamber (C1-Hp, C2-Hp) and the second chamber (C1-Lp, C2-Lp) during the operation.