Title (en)

SCREW-ROTOR MACHINE, ENERGY-CONVERSION SYSTEM AND METHOD FOR ENERGY CONVERSION

Title (de)

SCHRAUBENROTORMASCHINE, ENERGIEUMWANDLUNGSSYSTEM UND VERFAHREN ZUR ENERGIEUMWANDLUNG

Title (fr)

MACHINE À ROTOR À VIS, SYSTÈME DE CONVERSION D'ÉNERGIE ET PROCÉDÉ DE CONVERSION D'ÉNERGIE

Publication

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Application

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- SE 0700819 A 20070402

Abstract (en)

[origin: WO2008121070A1] The present invention relates to a screw-rotor machine (1) having two screw rotors (102) and a housing (101) having an Net opening (114) and an outlet opening (113). The rotors (102) are provided with axle journals (104) mounted In bearings (108). The bearing (106) Is oil lubricated and arranged in a bearing chamber (105), This communicates with the working space (115) of the machine via a gap seal (107). According to the invention, the bearing chamber (105) further communicates- with an oil supply conduit (111) and a drainage conduit (108). The latter is connected with a pressure that is lower than the lowest pressure in the working space (115) when it is open to the outlet. The invention also relates to an energy-conversion system having an expander, a condenser, a pump and an evaporator, in that connection, the expander is made as the expander according to the present invention. Furthermore, the invention relates to a method for energy conversion where such an expander is utilized.

IPC 8 full level

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