HEMETIC MOTOR COOLING FOR HIGH TEMPERATURE ORGANIC RANKINE CYCLE SYSTEM

ABSTRACT

An Organic Rankine Cycle (ORC) system includes a rotor volume at sub-atmospheric pressure, a working fluid sprayed into the rotor volume.

FIGURE 2

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ABSTRACT

An Organic Rankine Cycle system includes a turbine driven by a working fluid and a generator driven by the turbine. The turbine includes a rotor volume that is at sub-atmospheric pressure, and the working fluid is sprayed into the rotor volume. The turbine can be arranged in a primary circuit that also includes, in flow series from the turbine, a condenser, a first pump, and an evaporator. The rotor volume can be arranged in a secondary cooling circuit that includes, in flow series from the rotor volume, a heat exchanger, a second pump, and a restriction valve located downstream of the second pump and upstream of the rotor volume.

FIGURE 2