

Title (en)
EXPANDER LUBRICATION IN VAPOUR POWER SYSTEMS

Title (de)
EXPANDERSCHMIERUNG IN DAMPFKRAFTMASCHINENSYSTEMEN

Title (fr)
LUBRIFIANT D'EXPANSION DANS DE SYSTEMES A VAPEUR

Publication
EP 1896698 A2 20080312 (EN)

Application
EP 06744192 A 20060609

Priority

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Abstract (en)
[origin: WO2006131759A2] A vapour power generating system for generating power by using heat from a source of heat. The system has a closed circuit for a working fluid, and includes a heat exchanger assembly (1) for heating the fluid under pressure with heat from the source, a separator (8) for separating the vapour phase of the heated fluid from the liquid phase thereof, an expander (14) for expanding the vapour to generate power, a condenser (17) for condensing the outlet fluid from the expander (14), a feed pump (F) for returning condensed fluid from the condenser (17) to the heater and a return path for returning the liquid phase from the separator to the heater. The liquid phase of the working fluid contains a lubricant which lubricant is soluble or miscible in the liquid phase and a bearing supply path (21) is arranged to deliver liquid phase pressurised by the feed pump (F) to at least one bearing for a rotary element of the expander.

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