

**ABSTRACT****SYSTEM FOR CONTROLLING A RANKINE CYCLE**

5 The invention relates to a system for producing electricity, comprising a closed circuit of heat-transfer fluid which comprises an evaporator (1), an expansion member (2), a condenser (3) and a circulation pump (4), a generator (5) being coupled to the expansion member (2), in which system a liquid - vapour separator (6) provided with a liquid reservoir (12) is positioned between the  
10 evaporator (1) and the expansion member (2), the system being further provided with a control device (15) configured to empty the reservoir (12) if the liquid level in the reservoir reaches a maximum threshold (13).

Fig. 2