

Title (en)
METHOD AND SYSTEM FOR GENERATING HIGH PRESSURE STEAM

Title (de)
VERFAHREN UND SYSTEM ZUR HOCHDRUCKDAMPFERZEUGUNG

Title (fr)
PROCÉDÉ ET SYSTÈME POUR ENGENDRER DE LA VAPEUR À HAUTE PRESSION

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Application
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Abstract (en)
[origin: WO2011022810A1] A method and system of generating high pressure steam from a low pressure low energy steam is described and comprises providing a low pressure steam source; dividing the source into at least two streams. A first stream driving a turbine/expander coupled to a steam compressor of a steam generator. The steam compressor is fed by the second stream of the low pressure steam source, and the mass flow rate of the first stream is sufficient to raise the pressure of the second stream to a desired pressure. At steady state operating conditions the first and the second stream respectively acts as the driving force for the steam compressor and the inlet feed to the steam compressor generating the high pressure steam. In another embodiment the steam driven generator comprises a thermocompressor and may include an organic thermal fluid Rankine cycle.

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