

Title (en)
SYSTEM FOR ENERGY PRODUCTION BASED ON A RANKINE CYCLE

Title (de)
SYSTEM ZUR STROMERZEUGUNG BASIEREND AUF EINEM RANKINE-PROZESS

Title (fr)
SYSTÈME DE PRODUCTION D'ÉNERGIE BASÉE SUR UN CYCLE DE RANKINE

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Application
EP 15763887 A 20150911

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Abstract (en)
[origin: WO2016038202A1] The invention relates in particular to a system for the production of electrical or mechanical energy comprising a fluid circuit in which an organic working fluid circulates and comprising a plurality of components traversed by the working fluid and including: at least one first heat exchanger (110), configured to be thermally coupled with at least one first heat source (170); an expander (120), one inlet (120a) of which is fluidly connected to an outlet (110b) of the first heat exchanger (110); a second heat exchanger (130) configured to be thermally coupled to a second heat source (180) that is colder than the first heat source (170); and at least one pump (150) configured to set the working fluid in motion in the fluid circuit. The circuit is configured such that the working fluid passes successfully through at least the pump (150), the first heat exchanger (110), the expander (120) and the second heat exchanger (130), and then the pump (150) again; wherein the system comprises an injector (140) having: - a first inlet (140a) fluidically connected to an outlet (130b) of the second heat exchanger (130); - a second inlet (140c) fluidically connected to the outlet (110b) of the first heat exchanger (110); - and an outlet (140b) fluidically connected to an inlet (150a) of the pump (150).

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