

Title (en)
RANKINE CYCLE (RC) OR ORGANIC RANKINE CYCLE (ORC)-METHOD FOR UTILIZING WASTE HEAT FROM BIOMASS COMBUSTION FOR GENERATING ELECTRICITY AND CORRESPONDING SYSTEM

Title (de)
RANKINE-PROZESS (RC) ODER ORGANISCHER RANKINE-PROZESS (ORC) FÜR DIE ABWÄRMENACHVERSTROMUNG BEI BIOMASSEVERBRENNUNG, SOWIE ENTSPRECHENDE EINRICHTUNG

Title (fr)
PROCÉDÉ À CYCLE DE RANKINE (RC) OU À CYCLE DE RANKINE ORGANIQUE (ORC) POUR LA TRANSFORMATION EN ÉNERGIE ÉLECTRIQUE DE LA CHALEUR PRODUITE LORS DE LA COMBUSTION DE BIOMASSE ET DISPOSITIF CORRESPONDANT

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Abstract (en)
[origin: WO2011045047A2] The invention relates to an (O) RC-method for utilising the waste heat from biomass combustion for generating electricity as well as to a corresponding system, according to the preamble of patent claims 1 and 6. In order to achieve an improvement of the overall energy efficiency such that the overall efficiency of the biomass utilisation is enhanced, it is proposed, according to the invention, to design the evaporator so as to correspond exactly to the targeted difference in enthalpy on the boiling curve pre and post evaporation, by means of connecting to this end a controllable heat exchanger upstream of the evaporator, which heat exchanger is regulated to the difference in enthalpy between the pump and the entrance into the boiling curve of the evaporator.

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