Title (en)

POWER PLANT FEATURING THERMAL DECOUPLING

Title (de)

KRAFTWERK MIT WÄRMEAUSKOPPLUNG

Title (fr)

CENTRALE ÉLECTRIQUE À DÉCOUPLAGE THERMIQUE

Publication

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Application

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Abstract (en)

[origin: WO2006079551A2] Disclosed is a heat engine comprising an external heat source and at least three heat transfer media which are provided with a trapped working gas and are alternately impinged upon by heating medium and cooling medium. The thermodynamic changes of condition in each heat transfer medium in connection with a working cylinder and ventilation are a) isochoric heat input, b) isothermal expansion, c) isochoric heat dissipation, and d) isothermal compression. Also disclosed is a power plant which features thermal decoupling and in which power is generated by means of any number of the inventive heat engines (A). The heat engines are connected in series while being penetrated by the cooling medium and the heating medium according to the countercurrent principle. The heated cooling medium is utilized as combustion air after being discharged from the last heat engine while the heating medium that is discharged from the heat engine mounted last in the opposite direction can continue to be utilized for heating purposes or for other heat consumers.

IPC 8 full level

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CPC (source: EP US)

F02G 1/0435 (2013.01 - EP US); **F02G 1/055** (2013.01 - EP US); **F02G 1/06** (2013.01 - EP US); F02G 2270/10 (2013.01 - EP US)

Citation (search report)

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Cited by

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