

Title (en)

METHOD AND INSTALLATION FOR THE COMBINED GENERATION OF POWER, HEAT AND/OR COLD FROM POLLUTANT-LADEN HOT GASES WITH INTEGRATED GAS PURIFICATION

Title (de)

VERFAHREN UND ANLAGE ZUR GEKOPPELTEN KRAFT-, WÄRME- UND/ODER KÄLTEERZEUGUNG AUS SCHADSTOFFBELADENEN HEISSGASEN MIT INTEGRIERTER GASREINIGUNG

Title (fr)

PROCEDE ET DISPOSITIF POUR GENERER DE MANIERE COMBINEE DE LA FORCE, DE LA CHALEUR ET/OU DU FROID A PARTIR DE GAZ CHAUDS A CHARGE POLLUANTE AVEC EPURATION DES GAZ INTEGREE

Publication

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Application

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Abstract (en)

[origin: WO2004077586A2] The invention relates to a method and an installation for the combined utilisation of energy and the purification of pollutant-laden hot gases (31). According to the invention, the thermal energy contained in the hot gas (31) is used at different temperature levels and at least partially drives a closed cycle, in which a working substance is condensed in a thermal multi-component condenser (1), subsequently superheated in order to produce power and is conducted through an expansion machine (3a, 3b). In parallel with or following said process, at least one partial stream of the working substance flows through at least one thermal transformer (13), in which the waste heat streams of a hot gas condenser (27) that is integrated into the process and/or the waste heat streams of external consumers are absorbed and then delivered at a higher temperature.

IPC 1-7

F01K 25/06; F25B 15/00; F25B 27/02

IPC 8 full level

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