

Title (en)
PROCESS FOR DRESSING BROWN COAL FOR COMBINED GAS AND STEAM PROCESSES

Title (de)
VERFAHREN ZUR BRAUNKOHLENAUFBEREITUNG FÜR GAS-DAMPF-KOMBIPROZESSE

Title (fr)
PROCEDE DE PREPARATION DU LIGNITE POUR DES PROCESSUS COMBINES GAZ-VAPEUR

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Application
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Abstract (en)
[origin: WO9214802A1] The invention concerns a process for dressing brown coal for combined gas and steam processes in heat-generating installations. The aim of the invention is to achieve substantial reduction of the CO₂? emission per useful effect unit by reduced use of fossil energy carriers; the devices for drying raw brown coal are to be connected to the heat-generating installation in such a manner that the energy of the exhaust vapours is fully utilized. To this end, the drying container is operated in conjunction with a pressurized fluidized bed combustor, a gas turbine, a steam turbine, a pneumatically heated steam intermediate heater and a waste heat boiler; the drying energy for the drying container is obtained from saturated steam from the waste heat boiler of the combined process; the energy content of the de-dusted exhaust vapours under medium pressure is used to evaporate a partial flow of feed water; the gas turbine is operated with exhaust gases from the pressurized fluidized bed combustor; condensed combustion air is used for intermediate superheating of the steam, with cooling of the combustion air; and the exhaust vapour condensate formed by energetic connection is prepared and used to supply water for the circulation process.

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