

Title (en)
METHOD FOR OPERATING A POWER PLANT IN ORDER TO GENERATE ELECTRICAL ENERGY BY COMBUSTION OF A CARBONACEOUS COMBUSTIBLE, AND CORRESPONDING SYSTEM FOR OPERATING A POWER PLANT

Title (de)
VERFAHREN ZUM BETRIEB EINES KRAFTWERKES ZUR ERZEUGUNG VON ELEKTRISCHER ENERGIE DURCH VERBRENNUNG EINES KOHLENSTOFFHALTIGEN BRENNSTOFFS UND ENTSPRECHENDES SYSTEM ZUM BETREIBEN EINES KRAFTWERKES

Title (fr)
PROCÉDÉ D'EXPLOITATION D'UNE CENTRALE ÉLECTRIQUE EN VUE DE LA PRODUCTION D'ÉNERGIE ÉLECTRIQUE PAR COMBUSTION D'UN COMBUSTIBLE CONTENANT DU CARBONE ET SYSTÈME CORRESPONDANT D'EXPLOITATION D'UNE CENTRALE ÉLECTRIQUE

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Application
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Abstract (en)
[origin: WO2020064156A1] The invention relates to a method for operating a power plant (1) for generating electrical energy for delivery to at least one consumer (16) by combustion of a carbonaceous combustible, wherein carbon dioxide (19) is separated from the flue gas (7) of the power plant (1), the separated carbon dioxide (19) is converted at least in part into a fuel (20) characterised in that the fuel (20) is combusted at least temporarily in at least one heat engine (4) so as to form a waste gas (8), and electrical energy is generated by the heat engine (4) and is delivered to at least one consumer (16), at least some of the thermal energy of the waste gas (8) being used in at least one of the following processes: a) for heating a combustion air (10) of a power plant (1); b) for heating a process medium (14) of the power plant (1); c) in a drying of the combustible of the power plant (1); and d) in a carbon dioxide separation.

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