

Title (en)

METHOD FOR OPERATING A STEAM TURBINE POWER PLANT AS WELL AS DEVICE FOR CREATING STEAM FROM LIGNITE

Title (de)

VERFAHREN ZUM BETRIEB EINES DAMPFTURBINENKRAFTWERKS SOWIE EINRICHTUNG ZUM ERZEUGEN VON DAMPF AUS BRAUNKOHL

Title (fr)

PROCÉDÉ D'OPÉRATION D'UNE CENTRALE TURBOÉLECTRIQUE À VAPEUR ET DISPOSITIF DE PRODUCTION DE VAPEUR À PARTIR DE LIGNITE

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Application

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Abstract (en)

[origin: CA2759019A1] The invention relates to a method for operating a steam turbine power plant comprising at least one steam generator that is fueled by lignite, wherein the lignite is indirectly dried in a fluidized bed dryer that is heated at least partially with steam from the water-steam circuit of the steam generator. Said method is characterized in that the flue gas from the steam generator undergoes gas scrubbing to remove CO₂ and that the energy required for the gas scrubbing is at least partially extracted from the drying process in the fluidized bed. The invention additionally relates to a device for creating steam from lignite comprising a drying system for the lignite and a device to scrub CO₂ from the flue gas, wherein the drying process and the CO₂ gas scrubbing are thermally coupled to each other.

IPC 8 full level

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