

Title (en)
METHOD AND INSTALLATION FOR THE GENERATION OF EFFECTIVE ENERGY BY GASIFYING WASTE

Title (de)
VERFAHREN UND ANLAGE ZUR NUTZENERGIEERZEUGUNG DURCH MÜLLVERGASUNG

Title (fr)
PROCÉDÉ ET INSTALLATION DE PRODUCTION D'ÉNERGIE EFFICACE PAR GAZÉIFICATION DE DÉCHETS

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Application
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Abstract (en)
[origin: WO2008064661A2] Disclosed are a method and an installation for generating effective energy by gasifying waste. In said method and installation, waste such as garbage is introduced into a shaft-type melting gasifier, is dried in a reverse flow, is degassed, and is gasified while the solid residue is melted. The hot crude gases that are withdrawn from the melting gasifier (15) are fed to a hot gas steam generator (18) in which steam is admixed to the hot gas and said hot gas-steam mixture is conducted across the double turbine rotor (18.13) of a turbine (18.3) that drives a power generator (18.4), a preliminary reaction taking place at the same time. The pre-purified hot gas-steam mixture is then introduced into a downflow device (38) in which the mixture is cooled and pre-purified using sprayed water mixed with reactant and by repeatedly expanding, compressing, and foaming the mixture, the pre-purified gas being withdrawn and the liquid being collected. The pre-purified gas is fed to a gas purification process (40) in which the pre-purified gas is foamed with reactant and is defoamed again. The purified gases are finally further utilized for generating power, e.g. by being burned in an engine (41).

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