

Title (en)
PROCESS FOR GENERATING BURNABLE GAS

Title (de)
VERFAHREN ZUR ERZEUGUNG VON BRENN GAS

Title (fr)
PROCEDE DE GENERATION DE GAZ COMBUSTIBLE

Publication
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Application
EP 95908915 A 19950208

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Abstract (en)
[origin: US5849050A] PCT No. PCT/EP95/00443 Sec. 371 Date Aug. 14, 1996 Sec. 102(e) Date Aug. 14, 1996 PCT Filed Feb. 8, 1995 PCT Pub. No. WO95/21903 PCT Pub. Date Aug. 17, 1995A process is disclosed for generating burnable gas by gasifying water- and ballast-containing organic materials, be it coal or garbage. The drying, low temperature carbonization and gasification steps are carried out separately. The heat taken from cooled gasified gas is supplied to the endothermic drying low temperature in low temperature carbonation stages. The low temperature carbonization gas is burned in a melting chamber furnace with air and/or oxygen or oxygen-rich flue gas and the liquid slag is evacuated, whereas the low temperature carbonization coke is blown into the hot combustion gases that leave the melting reactions which take place and give carbon monoxide and hydrogen reduce the carbon is removed from the gasified gas, supplied to the melting chamber furnace and completely burned. The advantage of the invention is that the ashes may be transformed into an elution-resistant granulated building material, in that a tar-free burnable gas is generated and in that oxygen consumption is strongly reduced in comparison with the fly stream gasification process.

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Cited by
CN109539548A; CN109539547A; DE102010008384A1; DE102013009950A1; DE102013017546A1; DE102012013670A1; DE102013012661A1; DE102013018992A1; DE102014016401A1; WO2016070988A1; DE102013015536A1; DE102014016407A1; EP2868739A1; DE102013017945A1; US9234148B2; DE102013008519A1; EP2883942A1; DE102013020792A1; DE102013014042A1; DE102013020889A1; WO2015086134A1; DE102013015539A1; DE102013020890A1; WO2015086135A1; EP2703716A1; DE102012017107A1; DE102013018332A1; DE102013019655A1; WO2011063971A1; DE102009055976A1; US8603204B2; DE102013008518A1

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