

Title (en)
SHAFT-MELT GASIFIER AND A METHOD FOR THERMAL TREATMENT AND PROCESSING OF WASTE MATERIALS

Title (de)
SCHACHT-SCHMELZ-VERGASER UND EIN VERFAHREN ZUR THERMISCHEN BEHANDLUNG UND VERWERTUNG VON ABFALLSTOFFEN

Title (fr)
GAZEIFICATEUR A FUSION EN CUVE ET PROCEDE DE TRAITEMENT THERMIQUE ET DE VALORISATION DE DECHETS

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Abstract (en)
[origin: WO0162873A1] The invention relates to a method for thermal treatment and processing of waste materials of various types, consistency and composition, such as pollutant-loaded waste wood, old tyres, industrial/commercial waste, domestic waste and bulk waste and a shaft-melt gasifier for carrying out said method. The above is achieved, whereby the waste material is introduced into the high temperature zone (H), directly after burning in the shaft-melt gasifier. The organic components contained in the waste material react with oxygen here. The reaction products are sucked into the furnace along with the residual waste materials in a co-current flow. The incompletely combusted organic components of the waste materials undergo a pyrolytic decomposition. Pyrolytic coke is formed, which is burned with oxygen in the reducing/cracking zone (Z) and the raw gas sucked off between the zones (11) and (7).

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