

Title (en)

METHOD AND APPARTUS FOR TREATING ORGANIC WASTE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BEHANDLUNG VON ORGANISCHEN ABFALLSTOFFEN

Title (fr)

PROCEDE ET INSTALLATION DE TRAITEMENT DE DECHETS ORGANIQUES

Publication

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Application

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Abstract (en)

[origin: WO9325278A1] A method and apparatus are disclosed for treating an organic waste containing hydrogen and carbon in molten metal to form enriched hydrogen and carbon oxide gas streams. In one embodiment, the organic waste is introduced into a molten metal contained in a carbonization reactor without the addition of a separate oxidizing agent and under conditions sufficient to decompose the organic waste to generate hydrogen gas and carbonize the molten metal. Carbonized molten metal is directed from the carbonization reactor to a decarbonization reactor and an oxidizing agent is introduced into the carbonized molten metal in the decarbonization reactor to oxidize carbon contained therein thereby decarbonizing said molten metal and generating an enriched stream of carbon oxide gas.

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