

Title (en)

PROCESS FOR THE PRODUCTION OF SOLID, LIQUID AND GASEOUS COMBUSTIBLES FROM ORGANIC MATERIALS

Publication

EP 0052334 B1 19860716 (DE)

Application

EP 81109604 A 19811110

Priority

DE 3042964 A 19801114

Abstract (en)

1. A process for producing solid, liquid and gaseous fuels from organic material in granular or powder form at elevated temperatures and under exclusion of air, whereby the gases and vapors escaping during the heating are conducted through suitable gas and liquid separators, the conversion temperature is maintained until the development of gases and vapors has substantially ceased and the solid conversion residue and the separated gases and liquids are isolated, characterized in that carbohydrates, lipides, proteines ; vegetable, bacteriae, algae masses ; fresh sludge, sewage sludge and fermentation sludge from waste water purifying plants or the organic components of private or industrial garbage are used as organic material and that this material is heated at a rate of 5 to 30 degrees C per minute up to a conversion temperature of 200 to 400 degrees C.

IPC 1-7

C10G 1/02; **C10L 5/00**; **C10L 9/08**

IPC 8 full level

C10B 53/00 (2006.01); **C10G 1/00** (2006.01); **C10G 1/02** (2006.01); **C10J 3/00** (2006.01); **C10L 5/00** (2006.01); **C10L 9/08** (2006.01)

CPC (source: EP US)

C10B 53/00 (2013.01 - EP US); **C10G 1/02** (2013.01 - EP US); **C10L 9/08** (2013.01 - EP US)

Cited by

DE4118001C1; EP0325662A1; DE19950062A1; EP0157339A3; JPH0641545A; EP0204354A1; DE102004021583B4; DE3340971A1; EP0330070A1; DE19631201C2; US4781796A; EP0075060A3; DE10144290C1; DE19608308C2; EP2693060A1; DE102009033216A1; US6615751B1; US8518219B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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