Title (en)

PROCESS FOR RECYCLING WASTE MATERIALS

Publication

EP 0321807 B1 19920408 (DE)

Application

EP 88120665 A 19881210

Priority

DE 3743752 A 19871223

Abstract (en)

[origin: US4871426A] A liquid fraction and a gas fraction produced during the reprocessing of waste material containing CH compounds by pyrolysis, have a mass ratio approximately equal to 1. Since the liquid fraction is more suitable for further processing than the gas fraction, there is an incentive to augment the liquid fraction at the expense of the gas fraction. In order to achieve this object, the pyrolysis gas is cooled until the benzene and the higher-boiling gaseous constituents of the pyrolysis gas pass into the liquid phase, so that a benzene-containing liquid fraction is produced. A gas mixture containing benzene and toluene is stripped out of the benzene-containing liquid fraction, passed together with the gas fraction at a temperature of 300 DEG to 450 DEG C. over a zeolitic catalyst and then separated by cooling into both a fraction which is liquid at atmospheric pressure and a residual gas fraction. As a result, the proportion of the liquid fraction is substantially increased and the economics of the process are substantially improved.

IPC 1-7

C10G 1/00; C10G 1/10

IPC 8 full level

B29B 17/00 (2006.01); **C10B 53/07** (2006.01); **C10G 1/00** (2006.01); **C10G 1/10** (2006.01)

CPC (source: EP US)

C10G 1/002 (2013.01 - EP US)

Cited by

DE19517096A1; US10987661B2; US10239049B2; US10421062B2

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DOCDB simple family (publication)

EP 0321807 A2 19890628; **EP 0321807 A3 19900307**; **EP 0321807 B1 19920408**; AT E74617 T1 19920415; CN 1016439 B 19920429; CN 1033830 A 19890712; DE 3743752 A1 19890713; DE 3743752 C2 19900208; DE 3869930 D1 19920514; JP H01210493 A 19890824; US 4871426 A 19891003

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EP 88120665 A 19881210; AT 88120665 T 19881210; CN 88108966 A 19881222; DE 3743752 A 19871223; DE 3869930 T 19881210; JP 32476088 A 19881222; US 28960888 A 19881223