

Title (en)
Pyrolysis process and apparatus for carrying out the process

Title (de)
Pyrolyseverfahren und Vorrichtung zur Durchführung des Verfahrens

Title (fr)
Procédé de pyrolyse et appareil pour réaliser le procédé

Publication
EP 0443596 B2 19970702 (DE)

Application
EP 91102603 A 19910222

Priority

- DE 4005804 A 19900223
- DE 4011945 A 19900412
- DE 4022535 A 19900716
- DE 4033314 A 19901019
- DE 4040377 A 19901217

Abstract (en)
[origin: EP0443596A1] The disposal material is compacted to a fraction of its original volume while retaining its mixing structure and bond structure, is temporarily stored in this form, if necessary, and transported, and subjected to pyrolysis in this compacted form. All the pyrolysis products are immediately afterwards subjected to a high-temperature treatment under elevated pressure. The compacted disposal material can have been compacted into containers and is subjected to a low-temperature pyrolysis under pressure. In the environmentally sound processing of consumer goods, such as automobile wrecks or the like, large-volume portioning of the scrap material is carried out by division and/or compression before the intermittent introduction into the pyrolysis chamber. The solid, liquid and/or gaseous process products arising in the pyrolysis and containing pollutants are passed through one or more molten baths or smelted in an appropriate high-temperature furnace. The pyrolysis chamber can consist of a heatable pipe or rectangular duct or of a continuous furnace which takes a plurality of suitable containers with compacted disposal material.

IPC 1-7
C10B 53/00

IPC 8 full level
F23G 5/00 (2006.01); **B09B 3/00** (2006.01); **B09B 5/00** (2006.01); **C10B 53/00** (2006.01); **C10J 3/08** (2006.01); **C10J 3/66** (2006.01)

CPC (source: EP US)
C10B 53/00 (2013.01 - EP US); **C10J 3/08** (2013.01 - EP US); **C10J 3/66** (2013.01 - EP US); **C10J 2300/0906** (2013.01 - EP US)

Cited by
DE4414579C1; CN102910800A; ITVR20120202A1; EP0894843A1; US6067915A; DE4327320C2; EP0726307A1; DE4328203A1; DE20120189U1; DE4326484B4; DE4415342C1; EP0520086A3; EP0661368A3; FR2680989A1; BE1005186A3; ES2048096A1; AT402964B; WO9715640A1; WO0050536A1

Designated contracting state (EPC)
AT BE CH ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0443596 A1 19910828; EP 0443596 B1 19930929; EP 0443596 B2 19970702; CA 2036581 A1 19910824; CA 2036581 C 19980922; ES 2047349 T3 19940216; ES 2047349 T5 19971016; JP 3263094 B2 20020304; JP H07323270 A 19951212; US 5311830 A 19940517

DOCDB simple family (application)
EP 91102603 A 19910222; CA 2036581 A 19910219; ES 91102603 T 19910222; JP 3009291 A 19910225; US 65814291 A 19910220