



Pyrolysis of products containing hydrocarbon

Abstract

A German company developed the technology of pyrolysis. That is a thermal decomposition to the exclusion of oxygen. Macromolecular chains are shortened into shorter, saturated and unsaturated fragments in that process. At temperatures of 600 to 900 degree Celsius develop pyrolysis oils, gases and solid residues. The company is looking for a partner joining the preparation of the technology ready for the market.

Description

The German innovative process can be used to pyrolyse feed stock containing hydrocarbon especially used tyres and biological waste materials. The material is fed into a reactor and in a low temperature range pyrolysed. It is very important that the material is feed from the top as a whole and not in pieces, if possible. Several different materials could be provided so that the reactor operates with different materials without changes in the process control. The process is fairly simple in its construction and in its operation and assures a constant quality of the carbon. The technology is able to produce 3 main products:

- carbon (90% pur carbon) as a soft fine-grained activated charcoal.
- Oils (45% middle oil or heating oil)
- Metal (high grad material)

Innovations and advantages of the offer

Reactor with a fairly simple construction produces carbon with high-purity and other useable materials.

- Pyrolysis in a low temperature range
- material doesn't require crushing
- manufacturing of sellable products: carbon, oil, metal

Current and Potential Domain of Application

waste management, material recovery

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