

Abstract:

The invention relates to a method for pyrolyzing a plastic, in particular a waste plastic, comprising the steps of (a) pyrolyzing the plastic in a first pyrolysis reactor to obtain a first pyrolysis product, (b) separating a pyrolysis residue from the first pyrolysis product in a first separating unit, (c) separating the pyrolysis residue into a low-solid fraction and a high-solid fraction in a second separating unit, and (d) pyrolyzing the high-solid fraction in a second pyrolysis reactor to obtain a second pyrolysis product. The invention further relates to a device for pyrolyzing a plastic using said method.