

Claims:

1. A method for the pyrolysis of a hydrocarbon-containing solid biomass for the obtention of liquid and/or gaseous energy carriers in the presence of a heat carrier, whereby a mixture of the heat carrier and the biomass is heated up to pyrolysis of the biomass, characterized in that the biomass is impregnated with a volatile, non-aqueous liquid before being mixed with the heat carrier, characterized in that the volatile liquid exhibits a final boiling point (95%) lower than or, at most, equal to the temperature of the pyrolysis step and that the pyrolysis is performed at an overpressure of 0.5 bar or less.
2. A method according to claim 1, characterized in that the volatile liquid exhibits a final boiling point (95%) of 380°C or less.
3. A method according to any of the preceding claims, characterized in that the volatile liquid is a hydrocarbon mixture with a content of aromates of 1% or more.
4. A method according to claim 3, characterized in that the volatile liquid is selected from the group consisting of gas oil (LCO/LGO), diesel, petrol and mixtures thereof.
5. A method according to claim 4, characterized in that a refinery intermediate is used as the volatile liquid.
6. A method according to any of the preceding claims, characterized in that the mass ratio of the volatile liquid to the biomass is 1.5 to 1 or less, preferably 1:1 or less, based on the mass of the dry biomass.
7. A method according to any of the preceding claims, characterized in that the pyrolysis is carried out in the form of a liquid-phase pyrolysis.
8. A method according to claim 7, characterized in that a heavy oil, in particular a vacuum gas oil, is used as the heat carrier of the liquid-phase pyrolysis.