

**METHOD FOR PROCESSING PLASTIC PYROLYSIS OILS WITH A VIEW TO THEIR USE
IN A STEAM-CRACKING UNIT**

ABSTRACT

- 5 The present invention relates to a process for treating a plastics pyrolysis oil, comprising:
- a) a step of selective hydrogenation of said feedstock in the presence of hydrogen and at least one selective hydrogenation catalyst, at a temperature of between 100 and 150°C, a partial pressure of hydrogen of between 1.0 and 10.0 MPa abs. and an hourly space velocity of between 1.0 and 10.0 h⁻¹, to obtain a hydrogenated effluent;
 - 10 b) a step of hydrotreatment of said hydrogenated effluent in the presence of hydrogen and at least one hydrotreatment catalyst, at a temperature of between 250 and 370°C, a partial pressure of hydrogen of between 1.0 and 10.0 MPa abs. and an hourly space velocity of between 1.0 and 10.0 h⁻¹, to obtain a hydrotreatment effluent;
 - c) a step of separation of the hydrotreatment effluent obtained from step b) in the
15 presence of an aqueous stream, said step being performed at a temperature of between 50 and 370°C, to obtain at least one gaseous effluent, an aqueous liquid effluent and a hydrocarbon liquid effluent.

20 [Figure 1]