

METHOD FOR THE TREATMENT OF PLASTIC PYROLYSIS OILS INCLUDING TWO-STAGE HYDROCRACKING

ABSTRACT

- 5 The present invention relates to a process for treating a plastics pyrolysis oil, comprising:
- a) the selective hydrogenation of said feedstock to obtain a hydrogenated effluent;
 - b) hydrotreatment of said hydrogenated effluent to obtain a hydrotreatment effluent;
 - c) a first step of hydrocracking of said hydrotreated effluent to obtain a first hydrocracked effluent;
 - 10 d) separation of the hydrocracked effluent in the presence of an aqueous stream, to obtain a gaseous effluent, an aqueous liquid effluent and a hydrocarbon-based liquid effluent;
 - e) fractionation of the hydrocarbon-based liquid effluent to obtain at least one gas stream and at least one naphtha cut and a heavier cut;
 - f) a second step of hydrocracking of the heavier cut to obtain a second hydrocracked effluent;
 - 15 g) recycling of at least a portion of said second hydrocracked effluent into the separation step d).

[Figure 1]