

METHODS OF HYDROTREATING FEEDS FROM RENEWABLE SOURCES WITH INDIRECT HEATING

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Abstract

The invention describes a method of treating feeds from renewable sources comprising:

- a hydrotreatment stage a) comprising at least two catalytic zones in which the entry stream comprising said feed mixed with at least a part of a hydrotreated liquid effluent from stage b) is introduced into the first catalytic zone at a temperature comprised between 150 and 260°C, and the effluent from the first catalytic zone is then introduced, mixed with at least a part of a hydrotreated liquid effluent from stage b) and preheated, into the following catalytic zone or zones at a temperature comprised between 260 and 320°C,
- a stage b) of separation of the effluent from the hydrotreatment stage a) permitting the separation of a gaseous effluent and of a hydrotreated liquid effluent of which at least a part is recycled upstream from each catalytic zone of stage a).

Figure 1