

A B S T R A C T

A PROCESS FOR PRODUCING PARAFFINIC HYDROCARBONS

A process for producing paraffinic hydrocarbons from a feedstock comprising triglycerides, diglycerides, monoglycerides and/or fatty acids, the process comprising the following steps:

(a) hydrodeoxygenating the triglycerides, diglycerides, monoglycerides and/or fatty acids in the feedstock by contacting hydrogen and the feedstock with a hydrogenation catalyst at a temperature in the range of from 250 to 380 °C and a total pressure in the range of from 20 to 160 bar (absolute), to obtain an effluent comprising paraffinic hydrocarbons and water;

(b) separating a liquid stream rich in paraffinic hydrocarbons from the effluent obtained in step (a); and

(c) hydroisomerising the paraffinic hydrocarbons in the liquid stream rich in paraffinic hydrocarbons by contacting hydrogen and the liquid stream with a hydroprocessing catalyst comprising sulphided Ni and sulphided W or Mo as hydrogenation components on a carrier comprising amorphous silica-alumina and/or a zeolitic compound at a temperature in the range of from 280 to 450 °C and a total pressure in the range of from 20 to 160 bar (absolute).

Figure 1