Abstract

A Method For Preparing Fuel By Using Biological Oils And Fats

A new method of producing fuel from biological oils and fats is provided, which comprises following steps: (a) proceeding with a catalytic cracking-deoxygenation reaction for the biological oils and fats under heating in the presence of a cracking-deoxygenation catalyst; (b) mixing the product of step (a) with hydrogen gas; and (c) proceeding with a catalytic hydrodeoxygenation reaction for the mixture from step (b) under heating in the presence of a hydrodeoxygenation catalyst. By means of the method of the present invention, clean fuel produced by using biological oils and fats as raw materials is compatible to the fuel composition produced from crude oil refining.

Figure 1

Abstract

Method For Preparing Fuel From Biological Oil And Fat

A new method of producing fuel from biological oils and fats is provided, which comprises following steps: (a) proceeding with a catalytic cracking-deoxygenation reaction for the biological oils and fats under heating in the presence of a cracking-deoxygenation catalyst; (b) mixing the product of step (a) with hydrogen gas; and (c) proceeding with a catalytic hydrodeoxygenation reaction for the mixture from step (b) under heating in the presence of a hydrodeoxygenation catalyst. By means of the method of the present invention, clean fuel produced by using biological oils and fats as raw materials is compatible to the fuel composition produced from crude oil refining.

Figure 1