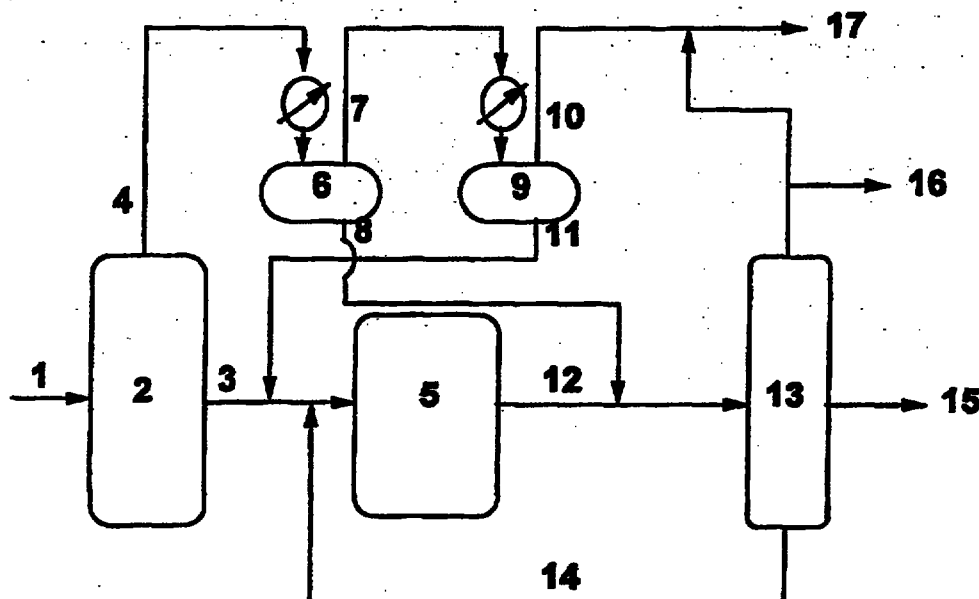




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(54) Title: **USE OF INFRARED SPECTROSCOPY TO PRODUCE HIGH LUBRICITY, HIGH STABILITY, FISCHER-TROPSCH DIESEL FUELS AND BLEND STOCKS**



(57) Abstract

The present invention is a method for controlling a process for producing a distillate fuel [15] heavier than gasoline. The process includes several different fractions, streams, including alcohols [8], olefins [11], and acids [11]. At least one of the streams [8] or [11] is irradiated with IR radiation, allowing the determination of the concentrations of at least one of alcohols, olefins and acids. The temperature of the separator [6] or [9] is then adjusted to change the concentrations to pre-determined values.