

Title (en)

METHOD AND APPARATUS FOR PRODUCING SYNTHETIC FUELS

Title (de)

VERFAHREN UND ANLAGE ZUR HERSTELLUNG VON SYNTHETISCHEN KRAFTSTOFFEN

Title (fr)

PROCÉDÉ ET INSTALLATION DE PRODUCTION DE CARBURANTS SYNTHÉTIQUES

Publication

EP 2454218 B1 20150902 (DE)

Application

EP 10737757 A 20100703

Priority

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- DE 102009032915 A 20090714

Abstract (en)

[origin: WO2011006594A1] In order to produce synthetic fuels, in a first phase, an educt mixture containing water vapor and an oxygenate, like methanol and/or dimethylether, is converted to olefins using a catalyst. Subsequently, the olefin mixture is then separated in a separator system into a flow that is rich in C1-C4 carbon hydrates, and a flow that is rich in C5+ carbon hydrates. The flow that is rich in C5+ carbon hydrates is separated into a flow that is rich in C5 and C6 carbon hydrates, and a flow that is rich in C7+ carbon hydrates, wherein the flow that is rich in C5 and C6 carbon hydrates is at least partially subjected to an etherification with methanol. The ethers thus produced are added to the gasoline product flow.

IPC 8 full level

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