

Title (en)

Process for the production of liquid hydrocarbons from coal.

Title (de)

Verfahren zur Herstellung flüssiger Kohlenwasserstoffe aus Kohle.

Title (fr)

Procédé de préparation d'hydrocarbures liquides à partir de charbon.

Publication

EP 0027962 A2 19810506 (DE)

Application

EP 80106290 A 19801016

Priority

DE 2943494 A 19791027

Abstract (en)

1. A process for the production of liquid hydrocarbons from coal by hydrocracking under pressure, in which ground coal, with or without catalysts, is slurried with a mixture of middle oil and heavy oil obtained in the process and the coal slurry thus obtained is heated under pressure, together with hydrogen, and passed through one or more reaction chambers, the reaction products are fed to a hot separator kept somewhat below the reaction temperature, the bottoms product from the hot separator is separated into a distillate oil for slurrying the coal and a residue, which is converted into synthesis gas, and the gases and vapours taken off at the top of the hot separator are passed over a second hot separator, if necessary, and then cooled in heat exchangers connected in series, wherein three or more heat exchangers are used, and the condensates obtained between and after the heat exchangers, namely a heavy oil condensate essentially boiling above 325 degrees C, a middle oil condensate essentially boiling between 180 and 325 degrees C and a gasoline condensate essentially boiling in the range between 30 and 180 degrees C, are collected in separators and from these condensates, one portion is removed as slurrying oil and one portion is removed as oil gain, and the two portions are passed respectively to the slurrying of coal and the hydrogenation in the gas phase or mixed phase, without intermediate distillation.

Abstract (de)

Die vorliegende Erfindung betrifft ein Verfahren zur Herstellung flüssiger Kohlenwasserstoffe aus Kohle durch spaltende Druckhydrierung, das dadurch gekennzeichnet ist, dass man nach der ersten Hydrierstufe die zwischen und hinter den Wärmetauschern anfallenden Kondensate sammelt, einen Anteil für das Anreibeöl und einen Anteil als Ölgewinn abzieht und beide Anteile ohne zwischengeschaltete Destillation zum Anreiben von Kohle bzw. der Hydrierung in der Gasphase oder Gemischtpase zuführt.

IPC 1-7

C10G 1/06; **C10G 1/08**

IPC 8 full level

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