

Title (en)

PROCESS FOR THE PRODUCTION OF REFORMER FEED AND OF FUEL OIL OR OF DIESEL FUEL FROM COAL

Publication

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Application

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Abstract (en)

[origin: US4639310A] A process for the production of reformer feed and heating or diesel oil from coal which comprises introducing a pulverized coal-oil slurry together with a hydrogenation gas into a liquid-phase hydrogenation stage; removing solids-containing residue from the discharge from the liquid phase hydrogenation stage, cooling the resulting residue-free volatile coal-oil fraction from the discharge and, if necessary, removing a slurry oil fraction therefrom before feeding the volatile coal-oil fraction to a gas-phase hydrogenation stage; introducing fresh hydrogen which is substantially free of contaminants into the gas-phase hydrogenation stage together with the volatile coal-oil fraction, the fresh hydrogen introduced into the gas-phase hydrogenation stage constituting the entire amount of hydrogen required for the process; and utilizing the waste-gas from the gas-phase hydrogenation as the hydrogenation gas for the liquid-phase hydrogenation. By contrast with conventional processes, which during gas-phase hydrogenation requires operating partial pressures of 300 bars, the process of this invention makes possible the lowering of the operating pressures required during gas-phase hydrogenation to approx. 50-200 bars and also enables significantly reduced consumption of hydrogen.

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