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(54) Title: PROCESS FOR PRODUCING HIGH RON GASOLINE USING CFI ZEOLITE

(57) Abstract: A process for producing a high RON naphtha which comprises contacting a hydrocarbon feed stream comprising a mixture of the isomers of C_5 and C6 paraffins with a CFI zeolite, such as CIT-5, in an adsorption zone, whereby the branched isomers of the C_5 and C6 paraffins are preferentially adsorbed by the CFI zeolite as compared to the straight chain isomers, and recovering a naphtha product from the adsorption zone having a higher RON than the hydrocarbon feed stream, also including a hydroisomerization process and hydrocracking process.