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(54) Title: GASOLINE UPGRADING PROCESS

(57) **Abstract**

Low sulfur gasoline of relatively high octane number is produced from a cracked, sulfur-containing olefinic naphthas by hydrodesulfurization followed by treatment over an acidic catalyst comprising an intermediate pore size zeolite such as zeolite ZSM-5 in combination with molybdenum. The use of the molybdenum in combination with the zeolite has been found to give improved catalytic activity coupled with lower coking, longer catalyst life and other advantages.