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(54) Title: GASOLINE UPGRADING PROCESS

(57) Abstract

A process for catalytically desulfurizing cracked fractions in the gasoline boiling range to acceptable sulfur levels uses an initial hydrotreating step to desulfurize the feed with some reduction in octane number, after which the desulfurized material is treated with a self-bound or binder-free zeolite to restore lost octane. The process may be utilized to desulfurize catalytically and thermally cracked naphthas such as FCC naphtha as well as pyrolysis gasoline and coker naphthas, while maintaining octane so as to reduce the requirement for reformate and alkylate in the gasoline blend. The self-bound catalyst offers advantages in activity and permits the process to be carried out at lower temperatures.

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