

## GASOLINE SULFUR REDUCTION IN FLUID CATALYTIC CRACKING

**Abstract**

5       The sulfur content of liquid cracking products, especially the cracked gasoline,  
of the catalytic cracking process is reduced by the use of a sulfur reduction additive  
comprising a porous molecular sieve which contains a metal in an oxidation state  
above zero within the interior of the pore structure of the sieve. The molecular sieve  
is normally a large pore size zeolite such as USY or zeolite beta or an intermediate  
10 pore size zeolite such as ZSM-5. The metal is normally a metal of Period 3 of the  
Periodic Table, preferably zinc or vanadium. The sulfur reduction catalyst may be  
used in the form of a separate particle additive or as a component of an integrated  
cracking/sulfur reduction catalyst.

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