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(54) Title: PROCESS OF REMOVING NOX FROM FLUE GAS

(57) Abstract: The invention includes a process for reducing the amount of NO_x discharged to atmosphere from a FCC unit, having a regenerator and a means for collecting and supporting catalyst particles. The process comprises adding a catalyst to the regenerator flue gas prior to entering the collecting means and precipitating the catalyst in the collecting means to form a catalyst bed. Ammonia or ammonia precursor is added to the flue gas prior to and/or within the collecting means. The flue gas NO_x is reacted with the ammonia or ammonia precursor at 200°C to 800°C in the presence of the catalyst bed to reduce the NO_x amount, and the flue gas containing a reduced amount of NO_x is discharged to atmosphere. The catalyst is one or more supported transition or lanthanide metal catalysts. The process can also be utilized in any combustion process.



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