

Title (en)  
Process for controlling oxidation of nitrogen and metals in circulating fluidized solids contacting process

Title (de)  
Verfahren zum Regeln der Oxidation von Stickstoff und Metallen in einem Wirbelbettverfahren

Title (fr)  
Procédé de régulation d'oxydation d'azote et de métaux dans un procédé de lit fluidisé

Publication  
**EP 1306420 A2 20030502 (EN)**

Application  
**EP 02023878 A 20021024**

Priority  
• US 98337901 A 20011024  
• US 25205502 A 20020923

Abstract (en)  
A fluidized particulate solids contacting process for reducing regenerator flue gas NO<sub>x</sub> emissions and/or permitting operating with an increased equilibrium solids vanadium level, which process may be an FCC process or a fluidized particulate solid hydrocarbon treating process, wherein spent FCC catalyst or other spent solid is in a regenerator with an oxygen-containing regeneration gas under catalyst (solid) regeneration conditions which include a combination of at least a regeneration temperature and an oxygen level in the regeneration gas which is effective to burn off the spent solid a majority of carbonaceous deposits thereon, while substantially preventing the formation of NO<sub>x</sub>, and thereby produce a regenerated solid having a carbon level reduced from that of the spent solid and a flue gas; maintaining the regenerated solid in a fluidized state with a fluidizing media that substantially prevents any further oxidation or regeneration; and returning the fluidized regenerated solid to the reactor (contactor) used in the process. <IMAGE>

IPC 1-7  
**C10G 11/18**

IPC 8 full level  
**C10G 11/18** (2006.01); **C10G 35/10** (2006.01)

CPC (source: EP US)  
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