

Title (en)
METHOD AND APPARATUS UTILISING HYDROGEN PEROXYDE TO REDUCE SO_x, NO_x AND HEAVY METAL EMISSIONS

Title (de)
VERFAHREN UND VORRICHTUNG UNTER VERWENDUNG VON WASSERSTOFFPEROXID ZUR VERRINGERUNG VON SO_x-, NO_x- UND SCHWERMETALLEMISSIONEN

Title (fr)
PROCÉDÉ ET APPAREIL UTILISANT DU PEROXYDE D'HYDROGÈNE POUR RÉDUIRE LES ÉMISSIONS DE SO_x, NO_x ET DE MÉTAUX LOURDS

Publication
EP 1761325 A1 20070314 (EN)

Application
EP 05734840 A 20050408

Priority

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- US 2004027778 W 20040826
- US 4029405 A 20050114

Abstract (en)
[origin: WO2005113116A1] Methods and apparatus utilizing hydrogen peroxide are useful to reduce SO_x and mercury (or other heavy metal) emissions from combustion flue gas streams. The methods and apparatus may further be modified to reduce NO_x emissions. Continuous concentration of hydrogen peroxide to levels approaching or exceeding propellant-grade hydrogen peroxide facilitates increased system efficiency. In this manner, combustion flue gas streams can be treated for the removal of SO_x and heavy metals, while isolating useful by-products streams of sulfuric acid as well as solids for the recovery of the heavy metals. Where removal of NO_x emissions is included, nitric acid may also be isolated for use in fertilizer or other industrial applications.

IPC 8 full level
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Citation (search report)
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