

Title (en)

INORGANIC OXIDES FOR CO₂ CAPTURE FROM EXHAUST SYSTEMS& xA;

Title (de)

ANORGANISCHE OXIDE ZUR CO₂-ABSCHEIDUNG AUS AUSPUFFSYSTEMEN

Title (fr)

OXYDES INORGANIQUES POUR LA CAPTURE DE CO₂ À PARTIR DE SYSTÈMES D'ÉCHAPPEMENT& xA;

Publication

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Application

EP 11763972 A 20110919

Priority

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- GB 2011051755 W 20110919

Abstract (en)

[origin: WO2012035361A1] This invention relates to the utilization of regenerable water tolerant solid materials for the abatements of CO₂ emissions from internal combustion engine exhaust streams through repetitive sorption/desorption cycles. The system, which is designed to be used in a gasoline, lean gasoline,diesel passenger car, diesel truck, stationary engine with 50Hz or 60Hz electrical frequency, or a SOFC, will contain a solid sorbent which contains zirconium and will be able to reduce on board the average carbon emissions by up to 10wt%. The preferred materials have been selected from the class of hydrotalcite type compounds and/or earth and alkaline earth zirconates.

IPC 8 full level

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