

Title (en)

INORGANIC OXIDES FOR CO<sub>2</sub> CAPTURE FROM EXHAUST SYSTEMS& xA;

Title (de)

ANORGANISCHE OXIDE ZUR CO<sub>2</sub>-ABSCHEIDUNG AUS AUSPUFFSYSTEMEN

Title (fr)

OXYDES INORGANIQUES POUR LA CAPTURE DE CO<sub>2</sub> À PARTIR DE SYSTÈMES D'ÉCHAPPEMENT& xA;

Publication

**EP 2627879 A1 20130821 (EN)**

Application

**EP 11763972 A 20110919**

Priority

- GB 201015605 A 20100917
- GB 2011051755 W 20110919

Abstract (en)

[origin: WO2012035361A1] This invention relates to the utilization of regenerable water tolerant solid materials for the abatements of CO<sub>2</sub> 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

**F01N 3/08** (2006.01)

CPC (source: EP US)

**B01D 53/92** (2013.01 - EP US); **F01N 3/0857** (2013.01 - EP US); **F01N 3/0885** (2013.01 - US); **B01D 2257/504** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2012035361A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2012035361 A1 20120322**; EP 2627879 A1 20130821; GB 201015605 D0 20101027; US 2013174739 A1 20130711

DOCDB simple family (application)

**GB 2011051755 W 20110919**; EP 11763972 A 20110919; GB 201015605 A 20100917; US 201113822503 A 20110919