

Title (en)
COMPOSITION BASED ON A ZIRCONIUM OXIDE, A TITANIUM OXIDE OR A MIXED ZIRCONIUM TITANIUM OXIDE ON A SILICA SUPORT,
METHODS OF PREPARATION, AND USE AS CATALYST

Title (de)
ZUSAMMENSETZUNG AUS BASIS EINES ZIRCONIUMOXIDS, EINES TITANOXIDS ODER EINES GEMISCHTEN ZIRCONIUMTITANOXIDS AUF
EINEM SILICIUMDIOXIDTRÄGER, HERSTELLUNGSVERFAHREN UND VERWENDUNG ALS KATALYSATOR

Title (fr)
COMPOSITION A BASE D'UN OXYDE DE ZIRCONIUM, D'UN OXYDE DE TITANE OU D'UN OXYDE MIXTE DE ZIRCONIUM ET DE TITANE
SUR UN SUPPORT EN SILICE, PROCEDES DE PREPARATION ET UTILISATION COMME CATALYSEUR

Publication
EP 2262735 A1 20101222 (FR)

Application
EP 09719637 A 20090223

Priority
• EP 2009052126 W 20090223
• FR 0801156 A 20080303

Abstract (en)
[origin: WO2009112355A1] The composition of the invention comprises at least one supported oxide, based on a zirconium oxide, a titanium oxide or a mixed zirconium titanium oxide on a silica-based support. The composition is characterized in that, after calcination for 4 hours at 900 °C, the supported oxide is in the form of particles deposited on said support, the size of the particles being at most 5 nm when the supported oxide is based on a zirconium oxide, being at most 10 nm when the supported oxide is based on a titanium oxide and being at most 8 nm when the supported oxide is based on a mixed zirconium titanium oxide. The composition of the invention may be used as catalyst, especially for the selective reduction of NOx.

IPC 8 full level
C01G 23/04 (2006.01); **B01D 53/56** (2006.01); **B01J 21/06** (2006.01); **B01J 37/08** (2006.01); **C01B 25/02** (2006.01); **C01G 23/047** (2006.01); **C01G 23/08** (2006.01); **C01G 25/00** (2006.01); **C01G 25/02** (2006.01)

CPC (source: EP US)
B01D 53/8628 (2013.01 - EP US); **B01D 53/945** (2013.01 - EP US); **B01J 21/063** (2013.01 - EP US); **B01J 21/066** (2013.01 - EP US); **B01J 37/0211** (2013.01 - EP US); **B01J 37/0221** (2013.01 - EP US); **B01J 37/10** (2013.01 - EP US); **B82Y 30/00** (2013.01 - EP US); **C01G 23/04** (2013.01 - EP US); **C01G 23/047** (2013.01 - EP US); **C01G 23/08** (2013.01 - EP US); **C01G 25/006** (2013.01 - EP US); **C01G 25/02** (2013.01 - EP US); **B01D 2251/2067** (2013.01 - EP US); **B01D 2255/20707** (2013.01 - EP US); **B01D 2255/20715** (2013.01 - EP US); **B01D 2255/30** (2013.01 - EP US); **B01J 35/613** (2024.01 - EP US); **B01J 35/615** (2024.01 - EP US); **C01P 2002/72** (2013.01 - EP US); **C01P 2004/64** (2013.01 - EP US); **C01P 2006/12** (2013.01 - EP US); **C01P 2006/13** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2009112355A1

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
FR 2928094 A1 20090904; FR 2928094 B1 20140711; CA 2716556 A1 20090917; CN 101959800 A 20110126; CN 101959800 B 20150311; EP 2262735 A1 20101222; JP 2011513054 A 20110428; JP 5628049 B2 20141119; KR 101215678 B1 20121227; KR 20100120190 A 20101112; RU 2012103968 A 20130820; RU 2448908 C1 20120427; RU 2531306 C2 20141020; US 2011045967 A1 20110224; US 8563462 B2 20131022; WO 2009112355 A1 20090917

DOCDB simple family (application)
FR 0801156 A 20080303; CA 2716556 A 20090223; CN 200980107506 A 20090223; EP 09719637 A 20090223; EP 2009052126 W 20090223; JP 2010549088 A 20090223; KR 20107019581 A 20090223; RU 2010140393 A 20090223; RU 2012103968 A 20090223; US 92039409 A 20090223