

Title (en)
COMPOSITION CONSISTING OF A ZIRCONIA-CERIA MIXED OXIDE WITH INCREASED REDUCIBILITY, PRODUCTION METHOD AND USE IN THE FIELD OF CATALYSIS

Title (de)
ZUSAMMENSETZUNG AUS EINEM ZIRKONOXID-CEROXID-MISCHOXID MIT ERHÖHTER REDUZIERBARKEIT, HERSTELLUNGSVERFAHREN UND VERWENDUNG IN DER KATALYSE

Title (fr)
COMPOSITION CONSISTANT EN UN OXYDE MIXTE DE ZIRCONIUM ET DE CERIUM A REDUCTIBILITE ELEVEE, PROCEDE DE PREPARATION ET UTILISATION DANS LE DOMAINE DE LA CATALYSE

Publication
EP 2729416 A1 20140514 (FR)

Application
EP 12729615 A 20120625

Priority
• FR 1102090 A 20110704
• EP 2012062224 W 20120625

Abstract (en)
[origin: WO2013004534A1] The invention relates to a composition essentially consisting of a zirconia-ceria mixed oxide, with a zirconia content of at least 40 wt. % and, after 4 hours of calcination at 1000°C, a specific surface area of at least 25 m²/g and a quantity of mobile oxygen between 200°C and 400°C of at least 0.5 ml O₂/g. Said composition is produced using a method wherein a mixture of cerium and zirconium compounds is continuously reacted with a basic compound in a reactor, with a maximum residence time of the reactive medium in the mixture zone of the reactor of 100 milliseconds; and the precipitate is heated then brought into contact with a surfactant before being calcinated.

IPC 8 full level
C01G 25/00 (2006.01); **B01D 53/94** (2006.01); **B01J 21/06** (2006.01); **B01J 23/10** (2006.01)

CPC (source: EP KR US)
B01D 53/94 (2013.01 - KR); **B01D 53/945** (2013.01 - EP US); **B01J 21/06** (2013.01 - KR); **B01J 23/10** (2013.01 - EP KR US); **B01J 23/34** (2013.01 - EP US); **B01J 23/83** (2013.01 - EP US); **B01J 35/40** (2024.01 - US); **B01J 35/613** (2024.01 - EP US); **B01J 37/0018** (2013.01 - EP US); **B01J 37/031** (2013.01 - EP US); **B01J 37/343** (2013.01 - EP US); **C01G 25/00** (2013.01 - EP KR US); **B01D 2255/407** (2013.01 - EP US); **B01D 2255/908** (2013.01 - EP US); **B01J 35/40** (2024.01 - EP); **C01P 2002/50** (2013.01 - EP US); **C01P 2004/61** (2013.01 - EP US); **C01P 2006/13** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

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 2013004534 A1 20130110; CA 2838501 A1 20130110; CN 103635429 A 20140312; EP 2729416 A1 20140514; FR 2977582 A1 20130111; FR 2977582 B1 20140711; JP 2014518191 A 20140728; KR 20140042828 A 20140407; RU 2014103636 A 20150810; US 2014147357 A1 20140529; ZA 201309555 B 20140827

DOCDB simple family (application)
EP 2012062224 W 20120625; CA 2838501 A 20120625; CN 201280032864 A 20120625; EP 12729615 A 20120625; FR 1102090 A 20110704; JP 2014517631 A 20120625; KR 20137034926 A 20120625; RU 2014103636 A 20120625; US 201214130906 A 20120625; ZA 201309555 A 20131218