

## Title (en)

CERIA-ZIRCONIA-MIXED OXIDE PARTICLES AND PROCESS FOR THEIR PRODUCTION BY PYROLYSIS

## Title (de)

CER-ZIRKONIUM-MISCHOXIDPARTIKEL SOWIE VERFAHREN ZU IHRER HERSTELLUNG DURCH PYROLYSE

## Title (fr)

PARTICULES D'OXYDES MIXTES DE CÉRIUM-ZIRCONIUM ET LEUR PROCÉDÉ DE PRÉPARATION PAR PYROLYSE

## Publication

**EP 2885245 A4 20160330 (EN)**

## Application

**EP 13879508 A 20130813**

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## Abstract (en)

[origin: WO2014027308A1] Ceria-Zirconia-Mixed oxide particles and process for their production by pyrolysis, wherein the process comprising: (1) providing a mixture comprising a solvent, one or more precursor compounds of ceria, one or more precursor compounds of zirconia, and one or more precursor compounds of one or more rare earth oxides other than ceria and/or one or more precursor compounds of yttria; (2) forming an aerosol of the mixture provided in step (1); and (3) pyrolyzing the aerosol of step (2) to obtain mixed oxide particles; wherein the content of the rare earth oxides other than ceria and/or of yttria in the mixed oxide particles formed in step (3) is comprised in the range of from 0.1 to 4.9 wt.-% based on the total weight of the rare earth oxides, yttria, and zirconia contained in the mixed oxide particles, as well as to mixed oxide particles obtainable from flame spray pyrolysis and to their use as an oxygen storage component, a catalyst and/or as a catalyst support.

## IPC 8 full level

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## Citation (search report)

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- See references of WO 2014027308A1

## Designated contracting state (EPC)

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