

Title (en)
BASE METAL AND BASE METAL MODIFIED DIESEL OXIDATION CATALYSTS

Title (de)
NICHTEDELMETALL-DIESELOXIDATIONSKATALYSATOREN UND NICHTEDELMETALLMODIFIZIERTE DIESELOXIDATIONSKATALYSATOREN

Title (fr)
MÉTAL COMMUN ET CATALYSEUR D'OXYDATION DU DIESEL MODIFIÉ PAR UN MÉTAL COMMUN

Publication
EP 2276701 A4 20171108 (EN)

Application
EP 09723935 A 20090326

Priority

- US 36332909 A 20090130
- US 3987908 P 20080327
- US 24017008 A 20080929
- US 36331009 A 20090130
- US 2009038398 W 20090326

Abstract (en)
[origin: WO2009120866A1] There is described a base metal modified Cerium containing oxide materials and their application as catalysts for the oxidation of CO and HC emissions from a compression ignition / diesel engine. These materials provide effective promotion of CO and HC oxidation function in the presence or absence of PGM and are based upon OIC/OS materials having a stable cubic crystal structure, and most especially to promoted OIC/OS materials wherein the promotion is achieved by the post-synthetic introduction of non- precious metals via a basic (alkaline) exchange process.

IPC 8 full level
B01J 21/04 (2006.01); **B01D 53/94** (2006.01); **B01J 23/00** (2006.01); **B01J 23/63** (2006.01); **B01J 23/66** (2006.01); **B01J 23/83** (2006.01); **B01J 23/89** (2006.01); **B01J 29/70** (2006.01); **B01J 35/04** (2006.01); **B01J 37/00** (2006.01); **B01J 37/02** (2006.01); **F01N 3/035** (2006.01)

CPC (source: EP KR)
B01D 53/944 (2013.01 - EP KR); **B01D 53/945** (2013.01 - EP); **B01J 23/002** (2013.01 - EP); **B01J 23/63** (2013.01 - EP KR); **B01J 23/66** (2013.01 - EP KR); **B01J 23/83** (2013.01 - KR); **B01J 23/894** (2013.01 - KR); **B01J 29/7007** (2013.01 - KR); **B01J 35/56** (2024.01 - EP KR); **B01J 37/0036** (2013.01 - KR); **B01J 37/0244** (2013.01 - EP KR); **B01J 37/0246** (2013.01 - EP KR); **B01J 37/0248** (2013.01 - EP KR); **B01J 37/03** (2013.01 - EP KR); **F01N 3/035** (2013.01 - EP); **B01D 2255/102** (2013.01 - EP); **B01D 2255/1021** (2013.01 - EP KR); **B01D 2255/1023** (2013.01 - EP); **B01D 2255/202** (2013.01 - EP); **B01D 2255/20761** (2013.01 - EP); **B01D 2255/407** (2013.01 - EP); **B01D 2255/502** (2013.01 - EP); **B01D 2255/908** (2013.01 - EP); **B01D 2255/91** (2013.01 - EP); **B01D 2257/404** (2013.01 - EP); **B01D 2258/012** (2013.01 - EP); **B01D 2259/4566** (2013.01 - EP); **B01J 23/83** (2013.01 - EP); **B01J 23/894** (2013.01 - EP); **B01J 29/7007** (2013.01 - EP); **B01J 37/0036** (2013.01 - EP); **B01J 2523/00** (2013.01 - EP KR); **F01N 2570/16** (2013.01 - EP); **Y02A 50/20** (2017.12 - EP); **Y02T 10/12** (2013.01 - EP)

C-Set (source: EP)
1. **B01J 2523/00 + B01J 2523/24 + B01J 2523/3712 + B01J 2523/3718 + B01J 2523/3725 + B01J 2523/48**
2. **B01J 2523/00 + B01J 2523/24 + B01J 2523/36 + B01J 2523/3706 + B01J 2523/3712 + B01J 2523/48**
3. **B01J 2523/00 + B01J 2523/3706 + B01J 2523/3712 + B01J 2523/3718 + B01J 2523/48**
4. **B01J 2523/00 + B01J 2523/24 + B01J 2523/3706 + B01J 2523/3712 + B01J 2523/3718 + B01J 2523/48**
5. **B01J 2523/00 + B01J 2523/13 + B01J 2523/3706 + B01J 2523/3712 + B01J 2523/3718 + B01J 2523/48**
6. **B01J 2523/00 + B01J 2523/18 + B01J 2523/3706 + B01J 2523/3712 + B01J 2523/3718 + B01J 2523/48**
7. **B01J 2523/00 + B01J 2523/23 + B01J 2523/3706 + B01J 2523/3712 + B01J 2523/3718 + B01J 2523/48**
8. **B01J 2523/00 + B01J 2523/18 + B01J 2523/3706 + B01J 2523/3712 + B01J 2523/3718 + B01J 2523/48 + B01J 2523/49**

Citation (search report)
• [X] US 6214306 B1 20010410 - AUBERT MARYLINE [FR], et al
• [XD] US 6387338 B1 20020514 - ANATOLY BORTUN I [US], et al
• [X] WO 2007111004 A1 20071004 - TOYOTA CHUO KENKYUSHO KK [JP], et al & EP 2000202 A1 20081210 - TOYOTA CHUO KENKYUSHO KK [JP], et al
• [AD] US 6468941 B1 20021022 - BORTUN ANATOLY I [US], et al
• See references of WO 2009120866A1

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

DOCDB simple family (publication)
WO 2009120866 A1 20091001; BR PI0909161 A2 20151124; CN 102015536 A 20110413; EP 2276701 A1 20110126; EP 2276701 A4 20171108; JP 2011515220 A 20110519; JP 5637980 B2 20141210; KR 101571659 B1 20151125; KR 20110005827 A 20110119; KR 20110006664 A 20110120; RU 2010143439 A 20120510; RU 2506996 C2 20140220

DOCDB simple family (application)
US 2009038398 W 20090326; BR PI0909161 A 20090326; CN 200980115177 A 20090326; EP 09723935 A 20090326; JP 2011502057 A 20090326; KR 20107023763 A 20090326; KR 20107024175 A 20090327; RU 2010143439 A 20090326