

Title (en)  
CATALYST SUPPORT FOR HIGH TEMPERATURE APPLICATIONS AND CATALYSTS AND CATALYTIC PROCESSES EMPLOYING SAME

Title (de)  
KATALYSATORTRÄGER FÜR HOCHTEMPERATURANWENDUNGEN UND KATALYSATOREN UND KATALYTISCHE VERFAHREN DIE DIESEN BENUTZEN

Title (fr)  
SUPPORT POUR CATALYSEUR DESTINE A DES APPLICATIONS HAUTE TEMPERATURE ET CATALYSEURS ET PROCEDES CATALYTIQUES Y RECORANT

Publication  
**EP 0842111 A1 19980520 (EN)**

Application  
**EP 96924547 A 19960716**

Priority  
• US 9611795 W 19960716  
• US 50795395 A 19950727

Abstract (en)  
[origin: WO9705057A1] This invention is a HfO<sub>2</sub>-containing catalyst support material for use in high temperature catalytic processes, such as catalytic combustion, wherein the HfO<sub>2</sub> is present in a sufficient amount to impart thermal stability on the catalyst support at temperatures in excess of 1,000 DEG C, as well as, heterogeneous, supported-platinum group metal catalyst employing the HfO<sub>2</sub>-containing support material and monolithic catalyst structures in which the HfO<sub>2</sub>-containing support material is used as a substrate washcoat for the active catalyst material. Also described are high temperature catalytic processes, such as catalytic combustion, employing catalysts and catalyst structures which utilize the HfO<sub>2</sub>-containing support material.

IPC 1-7  
**C01B 3/26**; **C01B 21/38**; **F23D 14/00**; **B01J 21/06**; **B01J 21/08**

IPC 8 full level  
**B01J 21/06** (2006.01); **B01J 21/08** (2006.01); **B01J 23/44** (2006.01); **B01J 32/00** (2006.01); **C01B 3/38** (2006.01); **C01B 3/40** (2006.01); **C04B 41/50** (2006.01); **C04B 41/52** (2006.01); **C04B 41/87** (2006.01); **C04B 41/89** (2006.01); **F01N 3/28** (2006.01); **F23C 13/00** (2006.01); **F23D 14/18** (2006.01)

CPC (source: EP KR)  
**B01J 21/06** (2013.01 - EP); **B01J 21/066** (2013.01 - EP); **B01J 21/08** (2013.01 - EP); **C01B 3/26** (2013.01 - KR); **C01B 3/40** (2013.01 - EP); **C04B 41/009** (2013.01 - EP); **C04B 41/5035** (2013.01 - EP); **C04B 41/52** (2013.01 - EP); **C04B 41/87** (2013.01 - EP); **C04B 41/89** (2013.01 - EP); **F23C 13/00** (2013.01 - EP); **C01B 2203/1011** (2013.01 - EP); **C01B 2203/1023** (2013.01 - EP); **C01B 2203/1064** (2013.01 - EP); **C01B 2203/107** (2013.01 - EP); **C01B 2203/1082** (2013.01 - EP); **C04B 2111/0081** (2013.01 - EP); **Y02P 20/52** (2015.11 - EP)

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9705057 A1 19970213**; AU 6497496 A 19970226; CA 2226291 A1 19970213; CN 1192190 A 19980902; EP 0842111 A1 19980520; EP 0842111 A4 19991222; JP 2001520569 A 20011030; KR 19990035866 A 19990525

DOCDB simple family (application)  
**US 9611795 W 19960716**; AU 6497496 A 19960716; CA 2226291 A 19960716; CN 96196015 A 19960716; EP 96924547 A 19960716; JP 50762497 A 19960716; KR 19980700527 A 19980123