

Title (en)

PROCESS FOR PRODUCING CARBON-COMPRISING SUPPORT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES KOHLENSTOFFHALTIGEN TRÄGERS

Title (fr)

PROCÉDÉ DE PRODUCTION DE SUPPORTS CONTENANT DU CARBONE

Publication

EP 2616173 A4 20140716 (EN)

Application

EP 11824677 A 20110914

Priority

- EP 10176553 A 20100914
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- EP 11824677 A 20110914

Abstract (en)

[origin: WO2012035501A1] Provided is a process for producing a surface-modified carbon-comprising support, which comprises the following steps: (a) mixing of the carbon-comprising support with at least one metal compound, a carbon-and/or nitrogen-comprising organic substance and optionally a dispersion medium; (b) optionally evaporation of the dispersion medium at a temperature in the range from 40 to 200 °C; (c) heating of the mixture to a temperature in the range from 500 °C to 1200 °C to form metal carbides, metal nitrides, metal oxycarbides, metal oxynitrides, metallocarboxynitrides and/or metal carbonitrides on the carbon-comprising support. A use of the surface-modified carbon-comprising support is also provided.

IPC 8 full level

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CPC (source: EP KR)

B01J 21/18 (2013.01 - EP KR); **B01J 27/22** (2013.01 - EP KR); **B01J 27/24** (2013.01 - EP KR); **B01J 37/08** (2013.01 - EP KR); **H01M 4/90** (2013.01 - EP KR); **H01M 4/9075** (2013.01 - EP); **H01M 4/921** (2013.01 - EP); **H01M 4/925** (2013.01 - EP); **H01M 8/1007** (2016.02 - EP); **Y02E 60/50** (2013.01 - EP)

Citation (search report)

- [XA] WO 2008127828 A1 20081023 - 3M INNOVATIVE PROPERTIES CO [US], et al
- [XI] US 2006264325 A1 20061123 - WU MARK Y [US]
- [XI] GB 2019239 A 19791031 - SHELL INT RESEARCH
- [XI] US 5240893 A 19930831 - WITHERSPOON ROMEO R [US]
- [XI] US 2003228972 A1 20031211 - BIRSS VIOLA [CA], et al
- See references of WO 2012035501A1

Designated contracting state (EPC)

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