

Patents Department AC as of September 2015

EP635515/PN, July 23, 1993

“Metallfullerene intercalation compounds, process for their preparation and use as catalysts”

Inventors: R. Schloegl, H. Werner, M. Wohlers

DE4404329/PN February 11, 1994, EP0667180

“Process for the disposal of halogenated hydrocarbons”

Inventors: C. Scholz, W. Holzinger, R. Schloegl

DE19637205/PN, September, 12, 1996

„Ion molecule reaction mass spectroscopy method for gas analysis“

Inventors: H. Hertl, D. Bassi, I. Povo, R. Schloegl

EP925111/PN September 5, 1997

„Catalyst, methods of producing it and methods of use“

Inventors: R. Schloegl, M. Wohlers, Th. Belz, Th. Braun

DE 19843329/PN, April 08, 1999

„Preparation of methacrylic acid“

Inventors: F. Rosowski, H. Hibst, R. Schloegl, D. Herein, S. Berndt

DE 198 10 539, October 7, 1999/US No.6, 212,253 B1 April 3, 2001

„Apparatus and method for X-ray absorption spectroscopy“

Inventors, Th. Schedel-Niedrig, A. Knop-Gericke, M. Haevecker

PCT/EP2004/002765 March 17, 2004 based on EP03 005 953.9,

“Cu-CuO/ZrO₂ catalyst in Steam reforming of Methanol”

Inventors: R. Schlögl, Th. Ressler, F. Giergsdies, H. Purnama, R. Schomaecker, M. Antonietti, J.H. Schattka, Y. Wang, R. Caruso

EP04009874, April 26, 2004

“Assembly of carbon tube-in-tube nanostructures”

Inventors: Z. Zhu, D. Su, R. Schlögl

EP2005/008022, July 22, 2005

“Metal oxide catalyst and method for the preparation”

Inventors: R. Schlögl, O. Timpe, S.B. Abd Hamid

EP2005/007619, 2005

“Carbon nanotubes fixed on activated carbon”

Inventors: R. Schlögl, S.B. Abd Hamid

DE 102004 034 630.5, 2004, WO06008049A1, January 26, 2006
"Catalyst comprising nanocarbon structures for the production of unsaturated hydrocarbons"

Inventors: R. Schlögl, G. Mestl

EP06005209.9, March 14, 2006
"Zirconium oxynitride catalysts for ammonia decomposition"

Inventors: R. Schlögl, T. Ressler, R. Jentoft

EP 06005310.5, March 15, 2006; WO2007104569, 2007; Application in USA 12/282,920

USA, Japan, China, Malaysia, Singapur, Indonesien, Kanada, 2008

"Palladium-Gallium intermetallic compounds as catalysts for the selective hydrogenation of acetylene"

Inventors: J. Osswald, R. Giedigkeit, M. Armbrüster, K. Kovnir, R.E. Jentoft, T. Ressler, Yu. Grin, R. Schlögl

EP2006/00346, April 13, 2006; USA, China, Japan 2008

"Nanocarbon-activated carbon composites"

Inventors: R. Schlögl, S.B. Abd Hamid

EP07018368, 2007

"Use of a mixture of an ordered intermetallic compound and an inert material as a catalyst and corresponding hydrogenation processes"

Inventors: M. Armbrüster, M. Schmidt, K. Kovnir, M. Friedrich, K. Weinhold, Yu. Grin, R. Schlögl

EP07021904.3 . . , 2007; PCT/EP/2008/064668 7/2009

"Preparation of intermetallic compounds via gas phase and nanoparticle synthesis"

Inventors: M. Armbrüster, M. Schmidt, K. Kovnir, M. Friedrich, K. Weinhold, Yu. Grin, R. Schlögl

EP07019469.1, 2007; PCT/EP2008/008383; US application 2010

US application 12/681,385 based on PCT/EP2008/008383 April 2010

"A new assembly of nanocarbon structure for energy storage"

Inventors: DS. Su, J. Zhang, R. Schlögl, J. Maier

PCT/EP2007/063523, 2007

"Novel synthetic route to mesostructured MoVTe mixed oxide"

Inventors: R. Schlögl, A. Trunschke

Application USA 2008

"Phase-enriched MoVTeNB mixed oxide catalyst and methods for the preparation"

Inventors: O. Timpe, S. Ayyamperiumal, A. Trunschke, R. Schlögl

EP submission 08167109.1, 10/ 2008
“*P-modified Mo-V-Nb mixed oxide catalyst*”
Inventors: R.Schlögl, A. Trunschke, O. Timpe, A.C. Sanfiz

EP submission 08167110.9, 10/ 2008
“*Bi-modified Mo-V-Nb mixed oxide catalyst*”
Inventors: R.Schlögl, A. Trunschke, O. Timpe, A.C. Sanfiz

PCT/EP2008/062424 , 10/2008
“*Hydrogenation process using mixture of an ordered IMC and inert material*”
Inventors: M. Armbrüster, M. Schmidt, K. Kovnir, M. Friedrich, K. Weinhold, Yu. Grin, R. Schlögl

Int. application based on EP07021904.3, 2008; PCT/EP/2008/064668 Juni 2009
“*Preparation of intermetallic compounds via gas phase and nanoparticle synthesis*”
Inventors: M. Armbrüster, M. Schmidt, K. Kovnir, M. Friedrich, K. Weinhold, Yu. Grin, R. Schlögl

June 19, 2009, EP09157875.7
“*Ordered cobalt-aluminium and iron-aluminium intermettalic compounds as hydrogenation catalysts*”
Inventors: M. Armbrüster, K. Kovnir, Yu. Grin, R. Schlögl, P. Gille, M. Heggen, M. Feuerbacher

March 2010 EP 10002419.9
“*Hydrotalcite-precursor based composite catalyst: Palladium-Gallium intermetallic compound on oxide support for hydrogenation reactions*”, 2009, pending
Inventors: M. Behrens, A. Ota, R.Schlögl, M. Armbrüster, Y. Grin

34634-MPG-P-WO 2009
“*Reactor Concept for In-Situ Measurements of Spatially Resolved Kinetic and Spectroscopic Data*”
Inventor: R. Horn

EP 05770 735.8-2104 2010; US application No. 11/623,513, 2010, Japan patent No. 5377851, 2013
“*Catalyst for the production of unsaturated hydrocarbons*”
Inventors: R. Schlögl , G. Mestl

Application EP 10 002419.9 March 9, 2010
“*Palladium-modified hydrocalcites and their use as catalyst precursors*”
Inventors: M. Behrens, A. Ota, R.Schlögl, M. Armbrüster, Y. Grin

Deutsche Patentanmeldung 102011076347.3. May 2011

“Microwave Cavity Perturbation Technique”

Inventors: M. Eichelbaum, A. Trunschke, R. Schlögl

Application 12157274.7, Feb. 2012, EP Nr. 13 706 277.4 (2015)

Application USA /China 2015

Nanostructured manganese oxide for electrocatalytic water splitting

Inventors: M. Behrens, A. Bergmann, K. Mette, J.-P. Tessonnier, R. Schlögl,

P. Strasser

Application 11 186 177.9, 2012

“Stabilization of carbon nanostructures and hydrophobic organic molecules by copolymers”

Inventors: R. Schlögl, Y. Grin, M. Armbrüster

PCT/EP202012/062807 2012

“Process for the production of chlorine using a cerium oxide catalyst in an isothermic reactor”

T. Schmidt, R. Wolf, O. Schlüter, T. Westermann, C. Mondelli, J. Perez-Ramirez, H. Soerijanto, R. Schomäcker, D. Teschner, R. Schlögl

PCT/EP2012/062801 2012

„Process for the production of chlorine using a cerium oxide catalyst in an adiabatic reaction cascade“

T. Schmidt, R. Wolf, O. Schlüter, T. Westermann, C. Mondelli, J. Perez-Ramirez, H. Soerijanto, R. Schomäcker, D. Teschner, R. Schlögl

WO 2013/072197 A1 May 23, 2013

„Methanol synthesis catalyst on the basis of copper, zinc and aluminum“

M. Behrens, B. Kniep, P. Kurr, R. Schlögl, M. Hieke

Application under preparation July 2015

„Iridium hydroxides for electrochemical oxidation of water“

C. Massué, S. Cap, R. Schlögl