

Title (en)

METAL OXIDE CATALYST FOR HYDROGEN GENERATION AND METHOD OF PRODUCING THE SAME

Title (de)

METALLOXIDKATALYSATOR ZUR WASSERSTOFFERZEUGUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

CATALYSEUR A OXYDE METALLIQUE POUR LA PRODUCTION D'HYDROGENE ET PROCEDE D'ELABORATION

Publication

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Application

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- US 16210805 A 20050829

Abstract (en)

[origin: WO2007001164A1] The present invention provides metal oxide catalysts and preparation method thereof. More particularly, provided are metal oxide catalysts for hydrogen generation including one or more metal oxide and preparation method thereof. Hydrogen can be manufactured efficiently and economically by using the metal oxide catalyst for hydrogen generation of the present invention.

IPC 8 full level

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Citation (search report)

- [X] GB 1320204 A 19730613 - INST FRANCAIS DU PETROLE
- [X] WO 0151410 A1 20010719 - MILLENNIUM CELL LLC [US], et al
- [X] US 2001022960 A1 20010920 - KOJIMA YOSHITSUGU [JP], et al
- [X] EP 1496014 A1 20050112 - DE FRANCESCO MASSIMO [IT], et al
- [X] JP H0741313 A 19950210 - TOKYO GAS CO LTD
- [X] US 3948699 A 19760406 - AYERS ORVAL E, et al
- [X] WO 9900326 A1 19990107 - STANFORD RES INST INT [US], et al
- [X] KOJIMA Y ET AL: "Hydrogen generation using sodium borohydride solution and metal catalyst coated on metal oxide", INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, ELSEVIER SCIENCE PUBLISHERS B.V., BARKING, GB, vol. 27, no. 10, 1 October 2002 (2002-10-01), pages 1029 - 1034, XP004366829, ISSN: 0360-3199, DOI: 10.1016/S0360-3199(02)00014-9
- See also references of WO 2007001164A1

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