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(54) Title: RHENIUM CATALYST SUPPORTED ON MODIFIED ALUMINA AND USE THEREOF IN THE METATHESIS REACTION OF OLEFINS

(57) Abstract: A heterogeneous catalyst is described, active in the metathesis reaction of olefins comprising alumina as inert carrier and a rhenium compound as active component, characterized in that rhenium is present in an amount of less than 5% by weight with respect to the total preferably from 1 to 4% by weight, and the inert carrier is impregnated with at least one inorganic halide selected from FeCl<sub>3</sub>, CuCl<sub>2</sub>, TiCl<sub>4</sub>, RuCl<sub>3</sub>, ZnCl<sub>2</sub> and NH<sub>4</sub>Cl, and/or the corresponding bromides or iodides and, subsequently, treated at a high temperature.



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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
B01J C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 595 920 A (SABOURIN EDWARD T ET AL) 27 July 1971 (1971-07-27) column 1, line 63 - column 2, line 32 examples claims 1,9 -----	1,10
A	EP 0 282 313 A (BP CHEM INT LTD) 14 September 1988 (1988-09-14) the whole document -----	1-24
A	EP 1 350 779 A (POLIMERI EUROPA SPA) 8 October 2003 (2003-10-08) the whole document -----	1-24
A	MOL J C: "Olefin metathesis over supported rhenium catalysts" CATALYSIS TODAY, AMSTERDAM, NL, vol. 51, 1999, pages 289-299, XP002222177 the whole document -----	1-24

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Patent family members are listed in annex.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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