

Title (en)

METHOD FOR PRODUCING A SHELL CATALYST AND CORRESPONDING SHELL CATALYST

Title (de)

VERFAHREN ZUR HESTELLUNG EINES SCHALENKATALYSATORS UND SCHALENKATALYSATOR

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN CATALYSEUR SOUS ENVELOPPE ET CATALYSEUR SOUS ENVELOPPE

Publication

**EP 2158037 A2 20100303 (DE)**

Application

**EP 08758903 A 20080530**

Priority

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Abstract (en)

[origin: WO2008145391A2] The invention relates to a method for producing a shell catalyst which comprises a porous molded catalyst support having an outer shell in which at least one transition metal is contained in metallic form. The aim of the invention is to provide a shell catalyst production method which allows production of supported transition metal catalysts in the form of shell catalysts that have a relatively little shell thickness. The method according to the invention makes use of a device (10) which is adapted to cause the molded catalyst supports to circulate by means of a reducing process gas (40). Said method comprises the following steps: a) feeding molded catalyst supports to the device (10) and causing the molded catalyst supports to circulate by means of a reducing process gas (40); b) impregnating an outer shell of the molded catalyst supports with a transition metal precursor compound by spraying the circulating molded catalyst supports with a solution that contains the transition metal precursor compound; c) converting the metal component of the transition metal precursor compound to the metallic form by reduction with the process gas (40); d) drying the molded catalyst supports that are sprayed with said solution.

IPC 8 full level

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