

Title (en)

THERMALLY INTEGRATED MONOLITH CATALYSTS AND PROCESSES FOR PRODUCING SYNTHESIS GAS

Title (de)

THERMISCH INTEGRIERTE MONOLITHISCHE KATALYSATOREN UND VERFAHREN ZUR HERSTELLUNG VON SYNTHESSEGAS

Title (fr)

CATALYSEURS MONOLITHES A INTEGRATION THERMIQUE ET PROCEDES DE PRODUCTION DE GAZ DE SYNTHESE

Publication

**EP 1257498 A1 20021120 (EN)**

Application

**EP 01910820 A 20010216**

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Abstract (en)

[origin: WO0160741A1] Thermally integrated monolith catalysts active for catalyzing the oxidative conversion of methane to CO and H<sub>2</sub> are disclosed. The composition and multi-layer configuration facilitates heat balancing between exothermic and endothermic reactions that take place in different sections of the monolith in a short contact time syngas reactor. The monolith comprises an active catalyst material supported by a multi-layer structure made of thin, porous metal pieces, the opposing faces of which are joined together at their perimeters. The metal pieces may be perforated disks made of at least two metals or metal oxides, and may also include a metal oxide coating.

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**C01B 3/40**

IPC 8 full level

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