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ABSTRACT

METAL CATALYST AND METHOD OF PREPARATION AND USE

5 A metal catalyst and a method of preparing the metal catalyst are disclosed. The metal catalyst consists essentially of a transition or noble metal supported by a ceria coating disposed on a ceramic monolith. Alternatively, a matrix structure can be provided on the ceramic monolith prior to the formation of the ceria coating. The use of the metal catalyst allows partial oxidation of hydrocarbons to be carried out at low initiation temperatures with high product yields and selectivities.

No Fig.