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ABSTRACT

CATALYST CONFIGURATION AND METHODS FOR SYNGAS
PRODUCTION

An improved process for the catalytic partial oxidation of hydrocarbons to produce hydrogen and carbon monoxide is disclosed. The process also utilizes a novel catalyst configuration containing at least two serially aligned layers containing a noble metal or transition metal catalyst supported on a support. Alternatively the process employs only the first layer of a catalytically active metal dispersed on an inert carrier support to partially oxidize hydrocarbons.

No Figure