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ABSTRACT



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MONOLITH BASED CATALYTIC PARTIAL OXIDATION PROCESS FOR
SYNGAS PRODUCTION

An improved process for the catalytic partial oxidation of hydrocarbons to produce hydrogen and carbon monoxide and less than ~2% carbon dioxide is disclosed. The process further permits the reaction to be initiated at room temperature, and utilizes a metal catalyst deposited on a ceria-coated zirconia monolith support, which exhibits high conversions of hydrocarbons to synthesis gas (hydrogen and carbon monoxide).

No Figure