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CATALYST CONFIGURATION AND METHODS FOR SYNGAS PRODUCTION

ABSTRACT

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 apparatus containing a first stage reactor which contains a first layer of a noble or transition metal catalyst on a support and a second layer of a reduced metal catalyst supported on or in a stable inorganic metal oxide washcoated on a support, and a second stage reactor which is a shift reactor.

Fig. 1