

AROMATIZATION OF METHANE WITH COMBINATION OF CATALYSTS

ABSTRACT OF THE DISCLOSURE

[0074] A heated reaction gas comprising methane is contacted with first and second catalysts to catalyze production of an aromatic hydrocarbon. The first catalyst is more active than the second catalyst for catalyzing aromatization of methane, and the second catalyst is more active than the first catalyst for catalyzing aromatization of ethane. A reactor for producing aromatic hydrocarbons from the reaction gas may have a conduit defining a reaction zone for the reaction gas to react therein, and the first and second catalysts may be disposed in the reaction zone.

FIGURE 1