

ABSTRACT

METHOD OF MANUFACTURE FOR AROMATIC COMPOUND

5 In manufacturing aromatic hydrocarbons by causing a contact reaction
between a lower hydrocarbon and a catalyst, the aromatic hydrocarbons are
stably produced over a long period of time while maintaining high aromatic
hydrocarbon yields. The process includes a reaction process of initiating the
contact reaction between the lower hydrocarbon and the catalyst thereby
10 obtaining the aromatic hydrocarbons and hydrogen, and a regeneration
process of regenerating the catalytic activity by bringing hydrogen into contact
with the catalyst used in the reaction process. The reaction process and the
regeneration process are repeated thereby producing the aromatic
hydrocarbons and hydrogen. In the reaction process, carbon monoxide is added
15 to the lower hydrocarbons and additionally a reaction temperature is set at
higher than 800 °C.

Figure 1