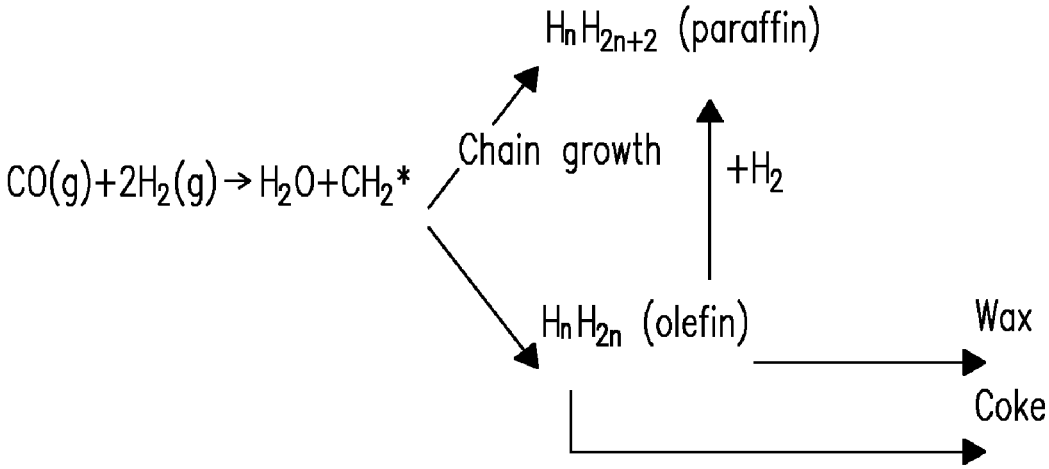
Pathway I



Pathway II

$$CO(g)+3H_2(g) \rightarrow CH_4+H_2O$$

Fig. 1